Notice of Meeting
UNIVERSITY OF HAWAI'I
BOARD OF REGENTS

Board business not completed on this day will be taken up on another day and time announced at the conclusion of the meeting.

Date: Thursday, January 20, 2022
Time: 8:30 a.m.
Place: Virtual Meeting

In light of the evolving COVID-19 situation, protecting the health and welfare of the community is of utmost concern. As such, this will be a virtual meeting and written testimony and oral testimony will be accepted in lieu of in-person testimony. See the Board of Regents website to access the live broadcast of the meeting via livestream: www.hawaii.edu/bor. Mahalo for your consideration.

AGENDA

I. Call Meeting to Order

II. Approval of the Minutes of the November 18, 2021, and December 16, 2021, Meetings

III. Public Comment Period for Agenda Items:

All written testimony on agenda items received after posting of this agenda and up to 24 hours in advance of the meeting will be distributed to the board. Late testimony on agenda items will be distributed to the board within 24 hours of receipt. Written testimony may be submitted via the board’s website through the testimony link provided on the Meeting Agendas, Minutes and Materials page. Testimony may also be submitted via email at bor.testimony@hawaii.edu, U.S. mail, or facsimile at (808) 956-5156. All written testimony submitted are public documents. Therefore, any testimony that is submitted for use in the public meeting process is public information and will be posted on the board’s website.

Those wishing to provide oral testimony for the virtual meeting may register here. Given constraints with the online format of our meetings, individuals wishing to orally testify must register no later than 7:00 a.m. on the day of the meeting in order to be accommodated. It is highly recommended that written testimony be submitted in addition to registering to provide oral testimony. Oral testimony will be limited to three (3) minutes per testifier.

IV. Report of the President

A. COVID-19


C. Legislative Inquiries

D. SCR201 (2021) Task Force Update

For disability accommodations, contact the Board Office at (808) 956-8213 or bor@hawaii.edu. Advance notice requested five (5) days prior to the meeting.
E. University of Hawai‘i (UH) by the Numbers
F. Other
G. UH Mānoa Campus Presentation

V. Committee and Affiliate Reports
A. Report from the Committee on Independent Audit
B. Report from the Committee on Personnel Affairs and Board Governance
C. Affiliate Reports
   1. Hawai‘i P-20 Council

VI. Agenda Items
A. Consent Agenda
   1. Approval of Indemnification Provision in a Grant Agreement between the W.K. Kellogg Foundation and the University of Hawaii
B. Approval of exceptions to Regents Policy 5.219 to award the following titles:
   1. Title of Dean Emeritus for Dr. Brian Taylor, School of Ocean and Earth Sciences and Technology (SOEST), UH Mānoa
   2. Title of Professor Emeritus for Dr. Ronald Cambra, College of Arts, Languages, and Literature, UH Mānoa
   3. Title of Professor Emeritus for Dr. Edward A. Laws, SOEST, UH Mānoa
   4. Title of Associate Professor Emeritus for Dr. Andrew Taylor, College of Natural Sciences, UH Mānoa
C. Approval of the Establishment and Naming of the UHERO – HMSA Distinguished Endowed Professorship in Health Economics at the University of Hawai‘i Economic Research Organization within the University of Hawai‘i at Mānoa College of Social Sciences
D. Update and Preview for the 2022 Legislative Session
E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)
F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)
G. Comprehensive Plan to Achieve a Reimagined University of Hawai‘i
H. Discussion and possible action on issues raised regarding UH Mānoa athletics
I. Review of Regent Survey of Possible Retreat and Board Education and Development Topics

VII. Executive Session (closed to the public):
A. Legal and Personnel Matters: (To consult with the board’s attorneys on questions and issues pertaining to the board’s powers, duties, privileges,

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immunities, and liabilities; and to consider the hire, evaluation, dismissal, or discipline of an officer or employee or of charges brought against the officer or employee, where consideration of matters affecting privacy will be involved; pursuant to Sections 92-5(a)(2) and 92-5(a)(4), Hawai‘i Revised Statutes)

1. Quarterly Status Report on Legal Matters

2. Issues raised regarding UH Mānoa athletics

VIII. Announcements

A. Next Meeting: February 17, 2022, at a location to be determined

IX. Adjournment

ATTACHMENTS

Attachment A – Personnel actions posted for information only, pursuant to Section 89C-4, Hawai‘i Revised Statutes. These actions are not subject to approval by the Board of Regents.
Attachment A: Pursuant to §89C-4, Hawai'i Revised Statutes, the following proposed compensation actions for excluded Executive/Managerial are disclosed for purposes of public comment.

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<th>Campus</th>
<th>Last Name</th>
<th>First Name &amp; Middle Initial</th>
<th>Proposed Title</th>
<th>Unit</th>
<th>Nature of Action</th>
<th>Monthly Salary</th>
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<td>Office of the Vice Provost for Research &amp; Scholarship</td>
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<td>Miriam</td>
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<td>Daniel K Inouye College of Pharmacy</td>
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<td>Appointment</td>
<td>$9,680</td>
<td>February 1, 2022 - December 31, 2022</td>
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I. CALL TO ORDER

Chair Moore called the meeting to order at 9:02 a.m. on Thursday, November 18, 2021. The meeting was conducted virtually with regents participating from various locations.

Quorum (10): Chair Randy Moore; Vice-Chair Alapaki Nahale-a; Vice-Chair Benjamin Kudo; Regent Simeon Acoba; Regent Kelli Acopan; Regent Eugene Bal; Regent William Haning; Regent Wayne Higaki; Regent Diane Paloma; and Regent Ernest Wilson.

Excused (1): Regent Robert Westerman.

Others in attendance: President David Lassner; Vice President (VP) for Administration Jan Gouveia; VP for Community Colleges (UHCC) Erika Lacro; VP for Legal Affairs/University General Counsel Carrie Okinaga; VP for Research and Innovation Vassilis Syrmos; VP for Information Technology/Chief Information Officer Garret Yoshimi; VP for Budget and Finance/Chief Financial Officer Kalbert Young; VP for Advancement/UH Foundation Chief Executive Officer Tim Dolan; UH Mānoa (UHM) Provost Michael Bruno; UH West O'ahu (UHWO) Chancellor Maenette Benham; Windward Community College (WinCC) Ardis Eschenberg; Executive Administrator and Secretary of the Board of Regents (Board Secretary) Kendra Oishi; and others as noted.

II. APPROVAL OF THE MINUTES

Regent Haning moved to approve the minutes of the October 21, 2021, meeting, seconded by Vice-Chair Kudo, and noting the excused absence of Regent Westerman, the motion carried, with all members present voting in the affirmative.

III. PUBLIC COMMENT PERIOD

Board Secretary Oishi announced that a letter requesting faculty representation on or to the Board of Regents was received from the All Campus Council of Faculty Senate Chairs (ACCFSC).
The Ho‘opae Pono Peace Project and several individuals submitted written comments in opposition to the Thirty Meter Telescope (TMT), the Maunakea Master Plan (Master Plan), and the extension or renewal of the university’s master lease for the Maunakea Science Reserve (Master Lease).

Written comments may be viewed at the Board of Regents website as follows:

Written Testimony Comment Received

Late Written Testimony Comment Received

Oral testimony was received from Bronson Azama in opposition to TMT, the Master Plan, and the Master Lease.

Merlyn Travis provided oral testimony regarding the university’s COVID-19 vaccination and testing policies.

Jessica Hamad submitted written comments and provided oral testimony in opposition to COVID-19 vaccination and testing policies.

IV. REPORT OF THE PRESIDENT

A. COVID-19 UPDATE

President Lassner provided an update on the university’s current state of affairs with regard to the COVID-19 pandemic, emphasizing that all of the pandemic related protocols and vaccination requirements were developed in consultation with medical, public health, and scientific experts, and adhere to the myriad of federal, State, and Centers for Disease Control and Prevention guidelines.

The implementation of vaccination requirements for all students registering for in-person classes in the spring, as well as all university employees, continues to move forward. Discussions with labor unions on vaccination requirements are ongoing and the administration is pursuing formal consultation on this policy. It was also noted that, as a federal contractor, the university is subject to federally mandated COVID-19 vaccination requirements for certain contractors and subcontractors.

In response to pandemic-related guidance issued by the State and counties requesting employees remain at home to the extent possible, the university implemented an interim telework policy in mid-2020. Through this effort, it was discovered that many university employees were able to productively fulfill their employment obligations from home. Hence, the administration is developing a non-pandemic-related telework policy that will provide appropriate mechanisms to allow employees to work from home while ensuring that the work of the university is accomplished.

The university continues to plan for a return to greater normalcy in Spring 2022 with the expectation that in-person instruction on all campuses will increase. President Lassner stated that students continue to express a strong interest in online courses, although variability exists by campus and program, and that an amalgamation of both
in-person and online course instruction is expected moving forward and federal resources are being invested in technology that will increase the flexibility of classroom space to offer in-person and online instruction simultaneously.

President Lassner stated that university athletics also experienced pandemic related difficulties particularly with respect to fan attendance at athletic events given State and county mandated COVID-19 restrictions on large-group gatherings. The short notice given to allow for full-capacity at the university’s athletic venues with vaccination requirements in place has created ticketing challenges that continue to be addressed. Despite full attendance being allowed, restrictions on concession sales at athletic events remain, which has impacted fan-attendance figures and revenue generating opportunities. He also noted that protocols put into place for attending athletic events at university athletic venues have worked well.

B. Senate Concurrent Resolution No. 201 (2021) (SCR 201) Task Force

The task force created by SCR 201 to, among other things, examine, compare, and contrast the university’s policies and procedures regarding tenure in relation to its peer institutions, continues to meet weekly and has begun to collect the substantial data being requested by the resolution.

In an effort to remain transparent and continue open dialogue on the issue of tenure, the task force has established a public website which contains all meeting notes. Task force members have also met with the Mānoa Faculty Senate and Mānoa Faculty Senate Executive Committee, and are scheduled to engage with the ACCFSC.
Through discussions held thus far, as well as data and information collected to date, the task force has discovered that many of the differences between tenure at the university in relation to its peer institutions lies in the university’s faculty classification system rather than the way in which tenure is administered, and that faculty members have significant misgivings with any potential changes to tenure.

Although discussions are ongoing, President Lassner stated that the task force is awaiting completion of data collection, in addition to information gathering, and is open to any suggestions from faculty groups with respect to improving the tenure system prior to drafting any recommendations and finalizing its report to the Legislature.

C. Update on Legislative Inquiries

While no formal legislative briefings involving the university have occurred since the September board meeting, the university and the Research Corporation of the University of Hawai‘i (RCUH) continue to receive regular inquiries from the Senate Higher Education Committee (HRE). To date, the university and RCUH have provided more than 5000 pages of material to HRE in response to these queries with most of the responses being comprised of information on construction projects and contracts, including the recently completed Life Sciences Building on the UHM campus and the federally-funded renovation of the Title III PIKO Project at UHWO. President Lassner also noted that responses are currently pending regarding questions about employment of university personnel and an inquiry about the enrollment management services
consultant utilized by the university, particularly with respect to services provided to UHWO.

D. **Decadal Survey on Astronomy and Astrophysics 2020**

The Decadal Survey on Astronomy and Astrophysics (Astro2020), which is broadly understood to present consensus priorities for the national advancement of astronomy and astrophysics, was released in early November 2021. Astro2020 recommends that the United States pursue the development of an ambitious suite of space-based telescopes and ground-based observatories over the coming decades that have the ability to advance work on numerous scientific questions revolving around three themes aimed at investigating Earth-like extrasolar planets, the most energetic processes in the universe, and the evolution of galaxies. Although the recommendations of the decadal survey are neither national policy nor binding, they carry great weight with Congress and federal agencies that fund most of the astrophysical research in the United States, including the National Science Foundation.

President Lassner identified several priorities contained within Astro2020 that are relevant to Hawai‘i and the university, including the advancement of TMT, which, along with the Giant Magellan Telescope, is encompassed under the United States Extremely Large Telescope Program, and the development of the next generation Very Large Array (ngVLA) project, the successor to the aging Very Long Baseline Array program that currently has a telescope facility in existence on Maunakea as part of a global network. He stated that advancement of the ngVLA project, which uses radio astronomy, presents an opportunity to advance science in Hawai‘i while reducing the astronomy footprint on the summit of Maunakea since these facilities can be located at lower elevations. Of particular note was the explicit recognition of Native Hawaiian concerns regarding astronomy on Maunakea, including those related to TMT, contained within the Astro2020 report which will impact the work of the federal government on this issue going forward, as well as the broad acknowledgement of the need to improve diversity within the astronomy and astrophysics community.

E. **Impact of Federal Infrastructure Legislation on the University of Hawai‘i (UH)**

President Lassner reviewed federal infrastructure legislation that would impact the university both directly and indirectly including the recently enacted Infrastructure Investment and Jobs Act, as well as the Build Back Better Act and the federal budget bill, both of which are currently under congressional consideration.

The Infrastructure and Jobs Act, which provides $1.2 trillion in federal monies for infrastructure investments over the next eight years, offers the university an opportunity to effectively compete for research and workforce projects related to these investments. It also includes over $65 billion in funding to improve and increase access to broadband throughout the nation. President Lassner stated that, although the university will not directly benefit from the hundreds-of-millions of dollars the State is anticipating it will receive to fund multiple initiatives intended to improve statewide access to broadband, the university has been identified as the lead agency for these endeavors due to its experience and expertise in this arena.
President Lassner stated that the university’s priorities are more generally clustered within the Build Back Better Act. He noted that the university is working in close collaboration with the University of Alaska to promote several priorities for both institutions with their respective congressional delegations, congressional committees with jurisdiction over these matters, and congressional leadership. He highlighted some of the provisions in the current version of the measure that may provide opportunities for the university, and noted that the various proposed versions of the federal budget bill, which is still under discussion, contain strong support for programs that will benefit the university.

President Lassner offered his thanks to VP Syrmos and Dr. Aimee Grace for their work on a number of these federal initiatives as well as their efforts in leading the university’s federal relations program.

F. Status of Comprehensive Plan to Achieve a Reimagined UH

President Lassner provided a status update on the university’s efforts to develop a long-term, comprehensive plan (Plan) to achieve a reshaped and reimagined university for the future. He summarized the points covered in the status report of the Plan presented during the July 2021 board meeting which highlighted priorities that would assist in meeting the needs of the State in an ever-changing social and economic climate and move toward a more sustainable future. While it was noted that some of the fiscal predicaments facing the university have been mitigated by one-time funding support, particularly from the federal government, President Lassner stated that it will be necessary to develop a longer-term approach involving the leveraging of university assets and capabilities across all ten-campuses of the university system in order for the university to maintain its future viability. He noted that technology would be a large component in achieving this goal.

In addition to providing the Plan to the board in January 2022, the administration will be launching its latest strategic planning effort as the term of the current strategic direction plan is nearing completion. President Lassner expressed the administration’s belief that the tenets of the Plan must be embedded within the university’s long-term strategy in order to formulate a cohesive path forward over the next six-year period. Work on strategic planning is expected to occur throughout 2022 with the administration anticipating that it will provide a new set of strategic directions to the board prior to the end of the 2022 calendar year.

G. Other

The university has received slightly more than $300 million in extramural funding to date which is almost equivalent to monies received at the same time last fiscal year. Although the university realized a decrease of $3 million in extramural research funding received, with $262 million being awarded thus far, this decrease has been offset by a $3 million increase in philanthropic funding received by the University of Hawai‘i Foundation (UHF) which received $46 million in donations to date. It was also noted that the long-standing agreement between the university and UHF, which was modernized in 2020, has been renewed for another three years.
The 26th United Nations Climate Change Conference of the Parties (COP26) was recently held in Glasgow, Scotland to discuss climate change and sustainability and offer solutions to this global issue. Climate change is a high priority for Hawai‘i which was evidenced by the attendance of the Governor, as well as other State officials, who made presentations at the conference. The university was also represented at COP26 with faculty and students from across multiple units including the School of Ocean and Earth Science and Technology, William S. Richardson School of Law, and numerous social sciences programs attending and speaking at the conference. Provost Bruno, who has expertise in ocean observation systems, climate change, and community resilience, also virtually participated on several COP26 panels.

President Lassner highlighted several achievements attained by teams from the university including a national championship for the UHM entomology team; first and third place finishes in the Meteor Hackathon by teams from UHM’s Information and Computer Sciences Department; a national championship for the Esports Program; and a first place championship in a rocketry competition by a team of students from multiple community college campuses. The UHM Esports program is also currently one of ten Esports program finalists vying to be recognized as the best program in the country.

H. WinCC Campus Presentation

Chancellor Eschenberg provided a brief synopsis of the impacts of the COVID-19 pandemic on the WinCC community, especially its student population, and highlighted several social and economic challenges that impeded the pursuit of higher education among specific populations, which lead to a decline in overall headcount enrollment in fall 2020. She recapped some of the work initiated by WinCC to address the immediate needs of its students, as well as longer-term efforts undertaken to assist in-need populations.

Chancellor Eschenberg provided an overview of enrollment statistics and relevant data trends over the last five years. Although WinCC was successful in sustaining matriculation for several student populations, particularly Native Hawaiian students, she noted that the college witnessed declining enrollment in certain demographic groups including male students, students in the 20 to 30-year old age group, and students enrolling in the early college program, which were attributed to the fiscal and social impacts of the pandemic. She also reported on several initiatives undertaken by WinCC to address student needs and reverse these trends including the Ho‘olei Scholarship program, the E ‘Oi Mau work-based learning program, the Kūkulu ‘Ohana student parent support program, as well as efforts to increase engagement with potential early college students and promote pathways to a college education at Windward O‘ahu high schools. It was noted that WinCC has been awarded a number of grants to advance these endeavors and that early data on the success of these interventions appears promising.

While the change to a largely online modality of instruction during the COVID-19 pandemic was difficult for WinCC, Chancellor Eschenberg stated that it also provided an opportunity to consider academic programs that could be offered in a mainly online format to increase accessibility to a post-secondary education. As a result of these
efforts, the Hybrid Vet Tech Program and an online associate of arts degree program with emphasis on UHM Shidler College of Business transfer requirements (Business Core) were established and are experiencing success. WinCC will also be establishing an online associate of arts program with courses themed around entrepreneur’ needs in spring 2022.

WinCC experienced declining trends in several of UHCC’s performance measures, including reductions in the overall amount of certificates of achievement and associate degrees awarded, as well as those awarded to Native Hawaiians, Pell Grant recipients, and in the fields of science, technology, engineering, and mathematics (STEM). Persistence has remained fairly constant, with part-time student persistence showing the greatest improvement. The overall success rate for first-time, full-time students has diminished slightly although it was noted that the success rate of first-time, full-time students from the 2018 cohort is currently 43.8 percent, which is an all-time high. However, transfers to four-year institutions have waned. Chancellor Eschenberg stated that WinCC is actively pursuing a number of approaches to address flagging numbers including intensive resource provision, as well as working collaboratively with faculty in developing and initiating innovative programming, and reviewed some of the strategies currently being undertaken.

**Faculty Report**

Laura Sue, WinCC Faculty Senate Chair, spoke about the work and accomplishments of WinCC faculty, highlighting its efforts in developing, improving, increasing, and managing several innovative academic programs. She reviewed several of these programs including the Hawai’iloa Hawaiian Studies Associate of Arts Degree Program (Hawai’iloa Program), which has attracted over 100 students, primarily Native Hawaiian individuals residing on the continent; the Ka’ohekani Hawaiian Music Certificate Program (Ka’ohekani Program) that is conducted completely online and prepares students for careers in music; Business Core, which fulfills the requirements for entry into the UHM Shidler College of Business; and the Entrepreneurship Associate of Arts Degree Program (Entrepreneurship Program), which is scheduled to begin in spring 2022 and will provide classes relevant to students interested in establishing a business and allow students to develop business skills while working and interacting with local business owners and consumers.

Ms. Sue highlighted a number of endeavors undertaken by both instructional and non-instructional faculty to meet student needs including monetary and food donations to help support the WinCC food pantry program and meals with a mission initiative that address food insecurity experienced by a large number of students. Faculty have also provided support services to the TRiO Program, an educational opportunity outreach program designed to motivate and support students from disadvantaged backgrounds.

Ms. Sue also reviewed faculty goals for the next academic year in the areas of humanities, natural sciences, and tutoring, highlighting community collaborations, assisting students in furthering their educational pursuits, and disaggregating data to better determine the impact of tutoring on Native Hawaiian students.
Student Report

Mr. Karl Boland, President of the Associated Students of the University of Hawai‘i at WinCC (ASUH-WinCC) and Ms. Emily Hanohano, Vice-President of ASUH-WinCC, provided a report on ASUH-WinCC’s initiatives and accomplishments that attempted to address the personal challenges that have been experienced by students during the pandemic. ASUH-WinCC also continues to advocate for the improvement of, and increased support for, student mental health services. Mr. Boland stressed the importance of providing support to student counselors.

Referencing the success of the Hawai‘iloa Program, Regent Acoba asked whether the actions responsible for this success would be transferrable to other degree programs. Chancellor Eschenberg responded in the affirmative noting that WinCC has been actively working to incorporate the concepts used for the Hawai‘iloa Program to advance other online degree programs such as the Ka‘ohekani Program, Business Core, and the Entrepreneurship Program.

Regent Acoba congratulated WinCC on the receipt of a number of grants to address the needs of students and increasing enrollment in the early college program.

Noting the decline in liberal arts enrollment, Regent Acoba questioned the reasoning for this decline. Chancellor Eschenberg replied that there has been a nationwide decline in liberal arts majors at institutions of higher education. At WinCC, this decline can be mainly accounted for by an increase in degree programs being offered which has resulted in more students declaring specified majors. It was mentioned, however, that an associate degree in liberal arts remains valuable for transferring to four-year institutions to obtain a bachelor’s degree, which correlates to a living wage. She noted that WinCC continues to look for opportunities to reverse this trend.

Citing the decline in WinCC students transferring to the university’s four-year institutions, Regent Acoba asked about the outcomes for this student demographic. Chancellor Eschenberg opined that many students are opting to transfer to institutions other than the four-year institutions of the university because the programs at other institutions were a better fit for their particular circumstance. However, WinCC continues to work with the university’s four-year institutions to provide a network of support to allow students to seamlessly transition between institutions.

Regent Acoba asked about the necessity of attracting and retaining larger numbers of students into the Marine Options Program (MOP) as was mentioned in the WinCC Faculty Senate presentation. Ms. Sue replied that MOP has been a program at WinCC for several years and is in the process of being reimagined and redesigned to attract more students. Chancellor Eschenberg added that reimagining MOP at WinCC in the context of the natural resources readily available in Windward O‘ahu, particularly in the estuary of He‘eia, will expand opportunities for diversification of Hawai‘i’s employment sector thereby allowing residents to pursue their careers while remaining in Hawai‘i.

Regent Acoba questioned whether students were enrolling in the Hybrid Vet Tech Program. Ms. Sue responded in the affirmative noting that neighbor island students are
conducting most of their coursework online and traveling to O’ahu for short periods of time to take part in intense, hands-on training.

Mentioning the monthly workshops which ASUH-WinCC took part in with student government organizations from other campuses, Regent Acoba asked what these workshops encompassed. Mr. Borland replied that during fall 2020, student government organizations began collaborating on workshops to engage and support students through the challenges they faced during the pandemic, noting that some of the workshops were educational in nature while others were for entertainment purposes.

Regent Acoba commended Mr. Borland for his voicing of concerns with respect to student mental health and the need to provide more mental health services. He also lauded ASUH-WinCC for its efforts to increase social interactions among students through various activities, including on-campus activity, stating his belief that these types of activities help to improve student mental health.

Regent Haning queried whether WinCC has contemplated collaborating with two mental health institutions located near its campus, the substance abuse treatment facility Hina Mauka and the Hawai‘i State Hospital (HSH), to develop and offer programs in healthcare. Chancellor Eschenberg responded in the affirmative noting that WinCC has worked with HSH and initiated a psychiatric technician short-term certificate program to provide opportunities for students to obtain employment in the healthcare sector, as well as allow current HSH employees to further their education thereby paving the way for wage increases. It is the vision of WinCC to work collaboratively with HSH and develop this program into an associate degree program thereby allowing students to transfer to programs in areas such as social work and counseling psychology at four-year institutions within the university system.

Regent Paloma praised the resilience of WinCC and commended its responsiveness to the needs of its students. She also asked about the percentage of students and faculty at WinCC who were Native Hawaiian. Chancellor Eschenberg replied that between 40 and 44 percent of students attending WinCC in any given semester are of Native Hawaiian ancestry. She also noted that WinCC has the largest percentage of faculty members of Native Hawaiian ancestry among all of the university campuses, stating that she did not have exact figures in hand but could provide this information.

Referencing the increased interest in online course instruction, Regent Acopan asked about the methodology used to determine the number of courses offered in an online format and whether more online courses will be made available in the future. President Lassner reiterated that interest in online course instruction varies across the university’s ten campuses and that the best metric to gauge this interest is the number of students actually registering for online coursework at each campus. He stated that the university has learned that a return to normalcy is not only about restoring in-person instruction but is also about students’ desires to experience intercollegiate life through co-curricular and social activities and campus life.
Regent Acoba commended the university for the various academic national championships it won over the last month and asked President Lassner for his thoughts on these championships, as well as on the university’s football program. President Lassner expressed pride in the academic championships attained by the university over the past month stating that it demonstrated the exceptional quality of students attending the university and the education they receive, as well as the extraordinary leadership and mentoring of faculty. While the football program has experienced recent losses, he stated that the game held in Las Vegas offered the university with the opportunity to connect with, and increase support from, Hawai‘i fans, including alumni and Hawai‘i expatriates, who attended the game in extremely high numbers.

Regent Acoba offered two general comments regarding the university. First, while concerns are always present regarding funding and revenues, it was his belief that the that the university should take a more balanced approach regarding its financial future, especially considering the large amount of federal relief funds received and anticipated through legislation pending in Congress. Second, he stated that he was encouraged by the administration’s effort to solidify the objectives of the university into one strategic plan, especially given that numerous strategic plans to further different objectives aimed at improving the university have been presented to the board since his appointment.

Vice-Chair Nahale-a expressed his concerns about the clarity of the university’s long-term vision and what it intended to accomplish with respect to the role of the university to the future of Hawai‘i. He also noted his belief that individuals outside of the realm of the university did not share a consistent view of what the university means to Hawai‘i and Hawai‘i’s future and opined that it was imperative for the administration to take this into consideration in the next iteration of the Plan.

Regent Higaki left at 10:51 a.m.

V. COMMITTEE AND AFFILIATE REPORTS

A. Report from the Committee on Budget and Finance

Due to the excused absences of Committee Chair Westerman and Committee Vice-Chair Higaki, Chair Moore noted the items contained within the committee report and referred members to the report provided with the meeting materials.

B. Report from the Committee on Planning and Facilities

Committee Vice-Chair Paloma summarized the committee report.

C. Affiliate Reports

ACCFSC: Regent Wilson reported that the ACCFSC has submitted a formal request to the board asking that it consider creating a position or positions that would allow for faculty representation on or to the board. He noted the rationale for this request and stated that this information was available in written testimony tendered to the board by the ACCFSC.

University of Hawai‘i Student Caucus (UHSC): Regent Acopan reported that the
UHSC continues to meet virtually on the 2nd Saturday of the month and has identified three priorities for this academic year including sustainability and transparency for student voices, which have been priorities in previous years, as well as shared cross-campus student resources.

University Health Partners of Hawai‘i (UHPH): Regent Acoba provided historical background on UHPH stating that its mission was to provide clinical education and training for the John A. Burns School of Medicine (JABSOM) students and of managing the clinical practices of faculty engaged in that mission. He noted that UHPH and the university recently entered into separate tripartite affiliation agreements with The Queen’s Health System (Queen’s) and Hawai‘i Pacific Health (HPH) explaining that, under these agreements, the major clinical departments at UHPH were transferred to these providers as of November 1, 2021, although some clinical programs would remain with and continue at UHPH. Generally, the faculty members have become employees of these healthcare providers but will still retain their university affiliation. He also noted that Queen’s and HPH have each agreed to provide approximately $1 million annually to JABSOM to support the school’s programs. In light of these agreements, UHPH will embark on determining its future role and on identifying other business opportunities.

Hawai‘i P-20 Council: Regent Haning stated that a detailed report on the Hawai‘i P-20 Council meeting held on October 8, 2021, was provided in the materials. He highlighted the Council’s continued efforts to connect the missions of Hawai‘i’s secondary schools, community colleges, and four-year higher education institutions and described some of the actions under consideration to create more cohesive career pathways. He also noted statistical data regarding graduation rates and conferring of certificates and degrees.

VI. AGENDA ITEMS

A. Consent Agenda

1. Approval of Fiscal Year (FY) 2022-2023 Supplemental Operating Budget Request for the University of Hawai‘i

2. Approval of the FY 2022-2023 Capital Improvement Project Supplemental Budget Request

3. Approval of Indemnification Provision in a Grant Agreement between the V Foundation for Cancer Research and the University of Hawai‘i

4. Approval of Indemnification Provision in Anticipation of Renewal of a Cooperative Agreement with the Department of Defense to Support the Pacific Disaster Center

Regent Wilson moved to approve the consent agenda, seconded by Regent Acopan, and noting the excused absences of Regent Higaki and Regent Westerman, the motion carried with all members present voting in the affirmative.
B. Approval to Request the Governor’s Approval to Hold a Public Hearing Regarding Amendments to Hawai‘i Administrative Rules (HAR) Title 20:

1. Chapter 4, “Determination of Residency as Applied to Tuition Payments and Admission” (Chapter 20-4); and

2. Chapter 10, “Delinquent Financial Obligations” (Chapter 20-10)

Chair Moore provided informational background on HARs stating that they act like laws and reviewed the process entailed to amend HARS.

VP Okinaga added that the process for amending HARs is extremely difficult. She stated that the proposed amendments to Chapter 20-4 and Chapter 20-10 of the HARs are the result of a project that began approximately five years ago whereby the board engaged in a review of all of the HARs pertaining to the university to determine relevance and the necessity to make amendments. As a result of this process, the board repealed 11 of 29 HAR chapters related to the university. There are currently 19 university correlated HAR chapters with one chapter regarding Maunakea being recently added. One additional chapter of HAR regarding the use of university-owned properties is currently under review with proposed amendments forthcoming.

Hae Okimoto, Associate Vice President (AVP) for Student Affairs, stated that Chapter 20-4, HAR, is statutorily required and provides the rules and procedures to determine the residency status of university students for tuition purposes. She explained that in its present form, Chapter 20-4 requires prospective students to answer numerous questions and attest to multiple forms of evidence which can make the process cumbersome and time-consuming and has been observed to discourage some prospective students from completing their applications for admission. Additionally, the current rules require that both subjective intent and objective fact be considered in the residency determination which has created confusion for some applicants. The proposed amendments to Chapter 20-4 are intended to simplify the application and review processes while ensuring that basic, statutorily required criteria to qualify for resident tuition are met.

Amy Kunz, AVP for Budget and Finance and Controller, explained that Chapter 20-10 addresses delinquent financial obligations to the university and provides rules of general applicability, rules for appeals from notices of delinquent financial obligations and imposition of sanctions, and rules for setoff of an individual’s delinquent financial obligations against their Hawai‘i State income tax refund or other sums due to the person from the State. The proposed amendments to Chapter 20-10 are intended to align the HAR with current practice by removing categories of delinquent financial obligations established in a hierarchical structure based on the type of obligation owed and instead, establish a process to collect any outstanding balance, regardless of financial obligation category, and apply sanctions based on a dollar limit threshold. AVP Kunz also stated that process-oriented matters contained within Chapter 20-10 were removed by the proposed amendments and will be placed within an updated Administrative Procedure.
Regent Acoba questioned whether the process used for approving the requested changes to Chapter 20-4 and Chapter 20-10 would be similar to the process used in approving the HAR related to Maunakea. VP Okinaga replied in the affirmative stating that the legal process will be the same.

Noting that the administrative process used for the approval of the HAR related to Maunakea involved several hearings that were held at night, Regent Acoba asked if this also would occur for the approval of the HAR changes currently being requested. VP Okinaga replied that the administrative process should be simpler. Chair Moore added that, given the significance of issues related to Maunakea, the board chose to have regents serve as the HAR hearings officers, which is not a common practice. In this situation, administrators would serve as hearings officers and the board would not be conducting public hearings on this matter.

Regent Haning moved to approve the request to the Governor for approval to hold public hearings regarding amendments to Chapter 20-4 and Chapter 20-10, HAR, seconded by Vice-Chair Nahale-a, and noting the excused absences of Regent Higaki and Regent Westerman, the motion carried with all members present voting in the affirmative.

C. Legislative Proposals Concerning the Board of Regents

Board Secretary Oishi explained that the introduction of proposed legislation relating to the university and its programs and functions are typically managed by the administration who keeps the board apprised throughout the legislative session. However, several issues have recently been raised that relate specifically to the board, or boards and commissions as a whole. As such, the board is being requested to review three concepts for potential legislative proposals prior to requesting introduction in the upcoming 2022 legislative session. She reviewed the three concepts which included proposals related to the realignment of the terms of regents and clarifying issues relating to the student regent that were raised by State Ethics Commission staff; the publicity of financial disclosure statements of members of the board; and the ability of the board to hold an annual retreat, providing the rationale for each of the proposals. If there is general board support for one or more of these concepts, the Board Office would work with University of Hawai'i Government Relations and the Office of the General Counsel to draft legislation for introduction and present those legislative proposals to the board at its January meeting.

Regent Bal asked how the conflict-of-interest issues raised by State Ethics Commission staff with respect to a university-employed student regent reconciled with other regents being employed by the university. VP Okinaga stated that the State Department of the Attorney General (AG) provided HRE with an opinion that appeared to rebuff the idea of a university employee serving as a regent, although this has occurred in the past. With respect to the student regent, questions were raised about conflicts of interest in circumstances where a student earned compensation for work or study such as stipends or tuition waivers. Based on the employment status of current and past student regents, it was ascertained that the pool of applicants from which a student regent could be appointed would be dramatically reduced if students earning
such compensation were eliminated from consideration. Thus, a suggestion was made to address this situation through a statutory amendment. As for an employee of the university serving as a regent, VP Okinaga opined that this was an open question. While the university has received some guidance from the AG’s Office that conflict of interest issues existed with this arrangement, she noted that these issues have been managed through the Board Bylaws, policies, and past board practices.

Citing the comment that the issue of university employees remains an open question, Regent Bal asked if a university employee was prohibited from serving as a regent. VP Okinaga replied that there is no statutory restriction on university employees serving as a regent.

Given the request from the ACCFSC regarding representation on the board, Regent Wilson suggested that the issue of the student regent be deferred until such time that a discussion can occur about faculty membership on the board.

Vice-Chair Kudo explained that he recalled issues of conflict of interest being raised when employees served as regents in the past stating that the board immediately attempted to address the situation through the adoption of certain requirements. He expressed his concerns regarding the ability of employees serving as regents to separate their fiduciary responsibilities as a regent from their inherent self-interests.

Regent Haning stated that he understood the need for a student to work or receive financial assistance in order to pursue their post-secondary education, as well as the negative impacts a prohibition of this practice could have on the appointment of a student regent. He suggested that these two issues could be addressed separately, perhaps through the provision of a separate stipend for a student regent and that further discussion was warranted on this issue.

Chair Moore stated that it appeared regents wanted to bifurcate the issues of regent terms and the concerns about a student regent being employed by the university.

Board Secretary Oishi noted that the appointment of a student regent is statutorily required and that the proposed concept was to address the issue raised by State Ethics Commission staff by inserting a clarifying definition of student-employee into the statute.

Chair Moore asked if his understanding that the term student-employee referred to a student working limited hours at an on-campus job was correct. President Lassner and Board Secretary Oishi concurred with Chair Moore's assessment stating that this was the intent of the proposal. President Lassner added that the proposed definition of student-employee was drafted in such a way so to distinguish between a student employed by the university on a part-time basis and a full-time employee who was also enrolled in classes.

VP Okinaga added that controls on potential conflicts of interest are contained within Regents Policy 2.206, Policy on Regents as Employees. She stated that making the distinction between a student-employee and a regular employee was a policy call, but that, in general, the issues taken up by the board are not the types of issues student employees are involved in as employees.
Regent Acoba stated that if the intent of the legislation was to create an exception for a student-employee to serve as a regent then that term should be properly defined to differentiate them from regular employees.

Regent Wilson remarked that the board needs to be cognizant of perception versus reality when considering how to address the situation of a student-employee, as well as employees in general, serving on the board.

Regent Acoba commented that the board also needed to be cautious when moving forward on this issue since the adopted definition of student-employee may limit the student representative on the board to a certain demographic.

Regent Acopan stated that a number of students are only able to attend college because of some form of student employment, including the majority of members of the various student caucuses who are able to dedicate more time to, and be better engaged with, their respective student bodies because of their student employment. She opined that disallowing students from serving on the board because of their affiliation with the university as an employee would preclude a number of qualified students from serving on the board and that the student-regent proposal was necessary.

Additional discussions ensued on the various ways of defining a student-employee and whether this issue should be pursued further.

Several regents expressed support for the proposal to allow annual retreats.

Vice-Chair Kudo expressed his lukewarm support for, and concerns with, the proposal to limit the publicity of financial disclosure statements of board members. He noted that, while he understood the reasons for this proposal, public perception is a concern.

Regent Haning echoed the comments made by Vice-Chair Kudo stating that there is a nationwide trend toward stricter application of conflict of interest rules and greater emphasis on accountability for members serving on the boards of various organizations.

Regent Acoba remarked that individuals seek a position on the board to contribute to the university and the public has a right to require that the financial status of regents be made public. He stated that when an individual seeks public office it should be done with the expectation that a right to privacy, especially with respect to an individual’s finances, is somewhat lost.

Chair Moore clarified that the proposal regarding financial disclosure statements does not change the requirement for submittal of these documents or reduce the penalties for violations of conflicts of interest. Rather, the proposal would simply eliminate the public release of submitted documentation, which is presently required by statute. However, he understood the concerns raised about public perception.

VP Okinaga stated that conflicts of interest with respect to the student regent are more narrowly defined since they are identified categorically under Chapter 84, Hawai’i
Revised Statutes, and she offered the relevant provisions that were applicable to this situation.

Regent Wilson moved to approve the proposal to realign the terms of regents, subject to the removal of language concerning student regent employment at the university, and the proposal to allow the board to hold an annual retreat, seconded by Vice-Chair Kudo, and noting the excused absences of Regent Higaki and Regent Westerman, the motion carried with all members present voting in the affirmative.

Regent Paloma left at 12:07 p.m.

D. Enrollment Update and Multi-Year Enrollment Plan

President Lassner introduced Pearl Iboshi, Director of the Institutional Research and Analysis Office, who would be providing the university’s enrollment update along with VP Lacro, Provost Bruno, Chancellor Benham, and Vice Chancellor for Student Affairs at the University of Hawai‘i at Hilo (UHH) Farrah-Marie Gomes.

Dr. Iboshi reviewed the overall enrollment goals and objectives for the university system, the unique roles and responsibilities for both the system and each of the major academic units of the university in achieving these goals and objectives, enrollment performance statistics for the system, and the various actions being taken by the system to increase enrollment including increased outreach and support for the Free Application for Federal Student Aid Program and creation of the university’s Fast Pass initiative. It was noted that the system changed its approach to enrollment statistics including amending terminology to differentiate between enrollment projections, which are forecasted enrollment figures, and enrollment targets, which are the enrollment goals each major academic unit aims to achieve; linking enrollment projections to tuition revenue projections; analyzing both headcount enrollment and student semester hours; adapting student enrollment classifications to provide enhanced and clearer details on enrollment statistics that are more indicative of student enrollment demographics; and looking at non-credit enrollment statistics in an attempt to better identify trends that will allow for more efficient determination of course needs to address workforce demands. Additionally, the system has begun looking at enrollment data and statistics regarding underrepresented populations by race.

A number of external factors which had an impact on enrollment in 2021, including those associated with the COVID-19 pandemic, were reviewed although it was noted that the situation is improving. Despite these impacts, Dr. Iboshi stated that overall enrollment for the system surpassed projections by 0.7 percent which went against the national trend of declining enrollment at public institutions of higher education. Graduation and retention rates, which affect enrollment, also remained stable despite the challenges faced by students.

Regent Higaki returned at 12:32 p.m.

Provost Bruno, Vice Chancellor Gomes, Chancellor Benham, and VP Lacro presented enrollment management progress reports for UHM, UHH, UHWO, and the community colleges, reviewing data on enrollment projections as compared to actual
enrollment for fall 2021; comparing retention and graduation rates for the last three fall semesters; offering analyses and assessments of the fall 2021 enrollment statistics for each of their respective institutions and academic units; noting areas of enrollment management that experienced success as well as areas where improvement was needed; and highlighting various action strategies for increasing enrollment for each of the major academic units. VP Lacro also spoke on enrollment in the non-credit programs at the community colleges, particularly in short-term training programs for workforce recovery. It was noted that each academic unit witnessed numerous challenges but that these challenges led to improvements in the way students were recruited and onboarded.

Regent Bal left at 12:53 p.m.

Vice-Chair Kudo expressed his pleasure with the university system and all of the academic units embracing the concept of enrollment management and commended all of them for their work on this issue.

Regent Wilson echoed the comments of Vice-Chair Kudo and stressed the importance of sharing information between the various academic units so that actions having positive impacts at one campus may be duplicated at other campuses.

Regent Acoba stated that he was not criticizing any individual or particular campus but opined that the administration appeared to be focusing more on the four-year institutions than on the community colleges. He reviewed several enrollment statistics with respect to the community colleges that showed large declines and believed that greater emphasis on enrollment management needed to take place at these institutions. He also requested, with the indulgence of the Chair of the Committee on Academic and Student Affairs (ASA), that the administration provide a report to ASA on the status of the community colleges with respect to this matter. Regent Wilson, who serves as the Chair of ASA, replied that he also had questions regarding this matter and would be following-up on this issue.

Vice-Chair Nahale-a expressed his appreciation for the level of detail provided in the enrollment update stating that the awareness of enrollment statistics and their use by the administration has greatly improved. He also noted his interest in information with regard to the community colleges, given the complexity of the system, as well as his lack of confidence in knowing what external impacts will affect the university system in the future and the clarity of the strategies that will be employed to meet these challenges.

Regent Wilson stated that the number of high school graduates is expected to drop precipitously by 2025 which will impact future enrollment for the university and that enrollment managers at the university need to be cognizant of this issue.

President Lassner stated that, while the number of high school graduates nationally will decline beginning in 2025, Hawai‘i high school graduation numbers are not expected to decline as precipitously as in many states and should remain stable over the next several years. Of greater concern is the decreasing number of high school
graduates enrolling in post-secondary education and that is something that the university needs to focus its efforts on. Students in this demographic tend to be most served by the community college system, and the Hawai‘i P-20 Program is critical to the university’s strategy in addressing this matter going forward.

Vice-Chair Nahale-a noted his desire to see the administration embed the role the university will play in addressing the needs of the population served by the community colleges and in increasing attendance at these institutions to meet public need through a connection with external forces, into the Plan. He also reiterated his opinion that the university needs to lead the conversation on these matters.

Chair Moore commended all of the units for their enrollment efforts, in particular UHM which experienced a 35 percent increase in first-time freshmen, stating that this demonstrates that the post-secondary educational needs of a myriad of students can be met by the university.

VII. ANNOUNCEMENTS

Chair Moore announced that the next board meeting was scheduled for January 20, 2022, at a location to be determined.

VIII. ADJOURNMENT

There being no further business, Regent Wilson moved to adjourn, seconded by Vice-Chair Kudo, and noting the excused absences of Regent Bal, Regent Paloma, and Regent Westerman and with all members present voting in the affirmative, the motion carried and the meeting was adjourned at 1:31 p.m.

Respectfully Submitted,

Kendra Oishi
Executive Administrator and Secretary of the Board of Regents
SPECIAL BOARD OF REGENTS MEETING

DECEMBER 16, 2021

Note: On November 29, 2021, Governor David Y. Ige issued a proclamation related to COVID-19 that temporarily suspended Chapter 92, Hawai‘i Revised Statutes, relating to public meetings and records, “only to the extent necessary to minimize the potential spread of COVID-19 and its variants”.

I. CALL TO ORDER

Chair Moore called the meeting to order at 8:34 a.m. on Thursday, December 16, 2021. The meeting was conducted virtually with regents participating from various locations.

Quorum (11): Chair Randy Moore; Vice-Chair Alapaki Nahale-a; Vice-Chair Benjamin Kudo; Regent Simeon Acoba; Regent Kelli Acopan; Regent Eugene Bal; Regent William Haning; Regent Wayne Higaki; Regent Diane Paloma; Regent Robert Westerman; and Regent Ernest Wilson.

Others in attendance: President David Lassner; Vice President (VP) for Community Colleges Erika Lacro; VP for Legal Affairs/University General Counsel Carrie Okinaga; VP for Research and Innovation Vassilis Syrmos; VP for Information Technology/Chief Information Officer Garret Yoshimi; VP for Budget and Finance/Chief Financial Officer Kalbert Young; VP for Advancement/UH Foundation Chief Executive Officer Tim Dolan; UH Mānoa (UHM) Provost Michael Bruno; UH Hilo (UHH) Chancellor Bonnie Irwin; UH West O‘ahu (UHWO) Chancellor Maenette Benham; Executive Administrator and Secretary of the Board of Regents (Board Secretary) Kendra Oishi; and others as noted.

II. PUBLIC COMMENT PERIOD

Chair Moore prefaced the public comment period by stating that, while a partial report of the Maunakea Plan Review Permitted Interaction Group is noted on the agenda, no Board deliberation or action can or will occur at this meeting pursuant to Hawai‘i laws regarding permitted interaction groups. Deliberation and decision making on this matter will occur at the next board meeting.

Board Secretary Oishi announced that numerous individuals submitted written comments supporting the proposed Master Plan for the University of Hawai‘i Maunakea Lands (Master Plan) noting its thoughtful and balanced approach, and stressing the educational and economic importance of astronomy to Hawai‘i, as well as the university’s improved management of the lands on Maunakea under its jurisdiction.
Several individuals submitted written comments in general support of the Master Plan, as well as construction of the Thirty Meter Telescope (TMT), with some noting that certain issues should be addressed prior to proceeding with construction of the TMT such as removal of older telescopes from the mountain.

Several individuals submitted written comments in opposition to TMT and/or the Master Plan.

Written comments may be viewed at the Board of Regents website as follows:

Written Testimony Comment Received
Late Written Testimony Comment Received

Oral testimony was received from Wendy Laros, President of the Kona-Kohala Chamber of Commerce, in support of the proposed Master Plan stating that the university has taken significant steps to improve past deficiencies with managing Maunakea and was the best suited entity to continue managing the mountain given its broad resources, vast knowledge, and steadfast commitment to stewardship.

Vice-Chair Kudo arrived at 8:38 a.m.

Hilton Lewis, Director of the Keck Observatory, provided oral testimony on behalf of the Maunakea Observatories (MKOs) in general support of the Master Plan, espousing the importance of astronomy and the benefits it provides to Hawai‘i Island, but stating that the MKOs believe improvements can be made to the Plan that would increase community engagement, particularly with the Native Hawaiian community.

III. REPORT OF THE PRESIDENT

A. COVID-19 UPDATE

President Lassner provided an update on the university’s current state of affairs with regard to the COVID-19 pandemic. The university enjoyed relative calm throughout much of the fall semester experiencing limited case numbers despite the spread of the virus’ Delta variant and concomitant surge in positive cases statewide. However, with the loosening of restrictions and emergence of the new Omicron variant, COVID-19 test positivity rates and case counts have increased throughout the State over the past few weeks, which is reflected by an uptick in case numbers within the university community. He stated that the single, most effective way to significantly improve community resistance to COVID-19 is through vaccinations. As the holidays approach and associated celebratory gatherings take place, the university continues to urge caution and encourages all students and employees to get vaccinated, get the COVID-19 booster, and to continue practicing COVID-19 prevention efforts, including wearing face masks and avoiding large crowds.

B. State Budget Update

The board-approved supplemental operating budget and capital improvement project (CIP) budget requests for fiscal year (FY) 2022-2023 have been submitted to the
Governor and Legislature. The university was successful in obtaining gubernatorial support for its entire operating budget request including the restoration of $42.5 million in general fund reductions made during the last FY. The Governor will also be requesting the Legislature to provide an additional $6.5 million in general fund appropriations for initiatives at the university to address workforce needs and support economic diversification including $1.7 million for additional clinical nursing instructors; $2 million for the expansion of medical residency programs on the neighbor islands; $560,000 for teacher workforce development to address a teacher shortage; $1.6 million for information technology and cybersecurity computer science workforce development; and $400,000 for equipment to support the creative media program at UHM. Additionally, the Governor’s budget contains an appropriation of $21.7 million for repair and maintenance (R&M) projects and equipment for the university that would normally be addressed through a CIP budget request.

The university's CIP budget request also received support from the Governor with $86.5 million of the $89 million request being approved for submittal to the Legislature. It was noted that, although requests for $6 million to redesign Hamilton Library and $4 million to develop a parking administrative facility for parking services at UHM were eliminated from the request, the Governor added $10 million in infrastructure support for UHWO to help facilitate and support development of the film studio project, housing, and mixed-use commercial opportunities. While there was a $10 million reduction in CIP funding for renew, improve, and modernize projects, this amount was offset by the Governor’s general fund appropriation request for R&M projects noted earlier.

C. Other

The university has been requested to assist with the ongoing Red Hill water contamination crisis by using the scientific knowledge and expertise, as well as research facilities and other resources, at its disposal to provide unbiased technical support in areas including water quality testing, hydrology and geology propagation modeling, and corrosion issues in the welding of repaired sections of the fuel tanks. Several university scientists and administrators that will be associated with these efforts, including VP Syrmos, have toured the facility and observed currently occurring mitigation measures. Meetings amongst various state and federal organizations and officials continue to take place.

This fall, Leeward Community College graduated eight students from the first cohort of its Accelerated Online Associate of Arts Degree Program (Program) which was designed specifically to provide higher-educational opportunities for working adults and consists of 5-week online asynchronous courses. The Program began in fall 2019 and has been successful, with a number of students from the first cohort transferring to baccalaureate degree programs. The Program is being used as a model for the development of other online programs designed for working adults as baccalaureate completion programs. Additionally, the Alaka‘ina Foundation, which was impressed by the number of Native Hawaiian students enrolled in the Program as well as the Program’s success as measured by student momentum, has provided funding for full-tuition scholarships for 20 students in 2022 and 2023.
IV. AGENDA ITEMS

A. Informational Update on Maunakea Management

President Lassner stated that the university has been migrating its leadership with respect to the stewardship of Maunakea to Hawai‘i Island under the leadership of UHH. Although the university’s senior leadership team, as well as other university entities involved with Maunakea, continue to meet weekly to ensure that both board and university expectations are met, program execution is addressed through the Office of the Chancellor at UHH and the new Center for Maunakea Stewardship (CMS) under the new organizational structure approved by the board.

Chancellor Irwin echoed President Lassner’s remarks regarding administrative oversight of matters related to Maunakea noting that the university embraces the belief that it is a manager of people and facilities but serves as a steward of Maunakea. As such, representatives of entities with oversight and management responsibilities for Maunakea meet often to ensure collaboration and cohesiveness with respect to stewardship efforts. She stated that the restructuring and streamlining of management operations initiated in August 2020 was meant to improve stewardship efforts and that, while this is an evolutionary process with adjustments continually being made, much has been accomplished in a short period of time. Chancellor Irwin introduced Dr. Greg Chun, Executive Director of Maunakea Stewardship, who is spearheading these efforts and would be presenting the update.

Dr. Chun began by providing background on the rationale for the internal restructuring of Maunakea management operations noting that one of the most oft mentioned issues with the original management structure was its multijurisdictional nature across the university which created vagueness and confusion with regard to management policy, responsibility, and authority over matters relating to Maunakea. The restructuring of management operations was intended to rectify this situation by taking a more unified approach to the stewardship and management of Maunakea. This unified approach included the merging of the Office of Maunakea Management and Maunakea Support Services, both of which were under separate jurisdictions, to create an entity known as CMS, which would be led by an Executive Director, to serve as a single point of contact over issues relating to the internal management of Maunakea thereby clarifying lines of authority and accountability. He presented an overview of the reorganized management structure, emphasizing the cohesive relationships between several Maunakea stakeholder groups, including CMS, the Institute for Astronomy at UHM (IfA), the ‘Imiloa Astronomy Center (‘Imiloa), and various cultural and community advisory groups such as the Mauna Kea Management Board (MKMB) and Kahu Kū Mauna.

A timeline of activities undertaken since September 2020 to implement the internal restructuring plan was reviewed by Dr. Chun who stated that 2021 was a year of transition. He highlighted several accomplishments of the past year including the hiring of a Director of Stewardship Programs and the reopening of the Mauna Kea Visitor Information Station (VIS) but also noted a number of obstacles faced in implementing the restructuring plan, including the impacts of the COVID-19 pandemic on operations.
and personnel vacancies created by unexpected retirements. He also noted that thoughtful discussions have occurred among cultural, community, and stakeholder advisory groups about improving community engagement, particularly with the Native Hawaiian community, to ensure that the diverse views that individuals hold towards Maunakea are being heard and considered. These discussions have resulted in Kahu Kū Mauna revamping its mission and developing plans to expand membership of its board to include individuals with different cultural perspectives. Similarly, MKMB has engaged in deliberations about expanding its membership to further diversify the range of perspectives and stakeholder groups represented on the board thereby increasing community involvement. CMS is assisting both Kahu Kū Mauna and MKMB with these endeavors and continues to refine the internal restructuring plan to adapt to dynamic situations with the aim of progressing towards its full and complete implementation.

Although a copy of the draft Master Plan being proposed by the administration has been provided to the board, Dr. Chun noted that, as previously mentioned, action cannot currently be taken on this matter pursuant to statutory requirements. However, he stressed the importance of providing a historical perspective on the development of the Master Plan which has been named E Ō I NĀ Leo, or Listen to the Voices, because of the multitude of values and perspectives from numerous stakeholders that were given due consideration during the creation of this document. He also noted that the Master Plan attempts to codify the university’s commitment to sustainably stewarding Maunakea for the benefit of multiple communities while recognizing its learning, research, and teaching mission. A summary of extensive information-gathering and outreach efforts undertaken to receive comments about the Master Plan was provided along with an overview of the inherent challenges faced in addressing the varied and conflicting interests expressed throughout the community about matters related to Maunakea. While many viewpoints were articulated via community engagement, the common underlying theme conveyed throughout was that of uncertainty. For that reason, the Master Plan was developed to serve as a framework for the university’s land use decisions that provides the flexibility to accommodate the uncertainty the university is operating within, emphasizing strategy and process over specific projects, resulting in a fair and balanced plan.

Dr. Chun provided an overview of the three-part organizational structure of, and four major goals articulated by, the Master Plan, and reviewed several key elements of the Plan including its lack of advocacy for a grand vision of Maunakea development; consideration of scenarios whereby the TMT project does not move forward or the university is replaced in its role of implementing state policy with respect to Maunakea; and commitment to a maximum of nine summit astronomy sites after December 31, 2033. He stressed that the Master Plan is one of several policy and guiding documents regarding Maunakea that must align and work together and that the Master Plan alone cannot address all of the interests and concerns expressed by the community, a large portion of which is beyond the control of the university.

Concurrent with the development of the Master Plan, the administration has been working on updating the Comprehensive Management Plan (CMP) for Maunakea, as well as an Environmental Impact Statement in anticipation of pursuing an application for
a new master lease. Dr. Chun noted that the CMP is a documented plan that is approved by the State Board of Land and Natural Resources (BLNR), and in essence, is a representation of the State’s management plan for Maunakea. He provided an overview of the work undertaken to update the CMP thus far, stating that an Outcome Analysis Report (OAR), which is a comprehensive assessment of 103 management actions relative to Maunakea to determine the status of each action and ascertain whether amendments are necessary, has been completed and submitted to BLNR as part of an annual report on the progress of CMP implementation. He also reviewed the process used to complete the OAR, the status of management actions contained within the OAR, and the findings of an independent review of the university’s implementation of the CMP commissioned by BLNR in 2020 which were incorporated into the report. The OAR is scheduled to be presented to BLNR on January 14, 2022. Dr. Chun stated that the administration is continuing its efforts to enhance stewardship and management of Maunakea through improved implementation of the CMP, acknowledged the work of staff in this endeavor, and noted recognition received by the administration for its cultural preservation and resource conservation work.

Ka’iu Kimura, Executive Director of ‘Imiloa, provided a brief overview of the history and work conducted by ‘Imiloa noting that it is a comprehensive educational facility showcasing the connections between the rich traditions of Hawaiian culture and the groundbreaking astronomical research conducted at the summit of Maunakea which has educated visitors and residents alike. She also spoke about the collaboration between UHH, the Hawaiian community, astronomers and scientists, and other stakeholders and community members to create a gathering place that, among other things, delivers various educational programs; expands public access to scientific and astronomical research; establishes opportunities for growth of the Hawaiian language; and serves as a leading model for integrated, culture-based scientific education and community engagement.

It was noted that, in 2020, ‘Imiloa was delegated the responsibility of providing visitor orientation regarding cultural and natural resources, safety matters, and other matters for all persons accessing the university managed areas of Maunakea prior to gaining admittance, pursuant to State law and as set-forth in both the Master Plan and CMP. Ms. Kimura also stated that ‘Imiloa was charged with developing plans to accomplish this task. Accordingly, orientation programs for commercial tour operators, as well as training programs for all employees and volunteers working on Maunakea, were developed and implemented. A web-based orientation video highlighting the various perspectives and viewpoints about Maunakea through stories told by individuals from across the community, a portion of which was played during the board meeting, has been completed and will be made available online within the next week. The orientation video will also be available at the VIS, along with other interpretive exhibits, brochures, activity books, and resource cards, that have been developed as part of ‘Imiloa’s educational outreach efforts. Presentations for both live and virtual forums to expound upon the historical, natural, cultural, and scientific history and relevance of Maunakea have also been prepared and will be initiated in the near future. Additionally, ‘Imiloa also continues to collaborate with Maunakea observatory staff and community partners to develop ongoing training programs for staff and others that will deepen the
understanding of the various facets of Maunakea and is intended to have a longer-term impact on behavior and attitudes toward the Mauna.

Ms. Kimura provided details about work currently underway to update and enhance the educational suite of activities on, and about, Maunakea, including the creation of interpretive, as well as three-dimensional, exhibits to provide individuals who visit the VIS with a better understanding of Maunakea as a storied Hawaiian place with a dynamic, living, Hawaiian culture. She noted that many of these activities focus on Maunakea as a place of connection to the past, to origins and genealogy, to the present, and to the future. Despite facing some challenges, ‘Imiloa expects to continue working towards expanding educational programs and operations through partnerships with various community groups and educational institutions.

Regent Acopan arrived at 10:02 a.m.

Ms. Kimura also discussed recent environmental shifts with respect to indigenous community engagement as it relates to scientific inquiry and the connection these changes had to Maunakea. Of particular note was the explicit recognition of indigenous population interests, including Native Hawaiian concerns regarding astronomy on Maunakea, that was contained within the Decadal Survey on Astronomy and Astrophysics, as well as the White House Office of Science and Technology’s elevation of indigenous knowledge in federal policy decision-making related to science and technology advancement for the United States.

Dr. Chun provided an update on the decommissioning status of the Caltech Submillimeter Observatory (CSO) and UHH’s Hōkū Kea teaching telescope (Hōkū Kea) stating that progress on decommissioning CSO has advanced significantly. The final environmental Assessment (EA) which determined that no significant impacts would be realized by decommissioning was published this month. CSO has also completed its Conservation District Use Application (CDUA) for decommissioning work. Both documents have been accepted by DLNR and are tentatively scheduled for a BLNR hearing in January 2022. Pending any unforeseen circumstances, deconstruction of CSO is anticipated to begin in summer 2022 and be completed by fall 2022. It was noted that decommissioning is not considered to be complete until site restoration efforts are concluded which often takes several years. Accordingly, decommissioning is not expected to fully occur until 2025 when restoration monitoring is scheduled to finish.

The decommissioning of Hōkū Kea is also progressing. Although the decommissioning of Hōkū Kea was once connected to the construction of UHH’s new educational telescope (NET) at Hale Pōhaku, these projects have since been decoupled. Community engagement, particularly with the Native Hawaiian community, and agency consultation regarding removal, restoration, and cultural impacts continue to occur. It is anticipated that a final EA and CDUA will be completed and submitted to DLNR in the summer of 2022 with deconstruction beginning in 2023.

Development of UHH’s NET continues to move forward. The administration is hopeful that a CDUA for siting NET near one of the existing dormitories currently in existence at Hale Pōhaku will be completed and submitted to DLNR in January 2023
and that a permit will be issued in August 2023. Community consultation efforts to update the cultural impact assessment with respect to this project are ongoing. A draft management plan for NET is also being finalized for review by Kahu Kū Mauna and MKMB.

Dr. Doug Simons, Director of IfA, lauded the internal restructuring plan for cohesively aligning the roles and responsibilities of ‘Imiloa, IfA, and CMS which has made for an improved and more collaborative relationship between agencies and will lead to better stewardship. He reported on efforts undertaken in pursuing renewal of the university’s master lease for the Maunakea Science Reserve stressing that, without a renewal of the master lease, all of the MKOs have an operational lifetime of approximately 5 years when the length and complexity of the decommissioning process are taken into consideration. This uncertainty inevitably impacts short- and long-term planning of the MKOs, as well as their funding agencies. It is anticipated that within the next year, the end result of the Mauna Kea Working Group (MKWG) established by the House of Representatives to recommend a new governance and management structure for Mauna Kea will be understood; the draft MKO terms for any new agreements being sought will be finalized; and the components of the new master lease will be completed. Dr. Simons reviewed and spoke about several of the terms currently being discussed with each of the MKO directors regarding any new use agreements being sought. He also reported on the anticipated timeline for the various components involved in obtaining the renewal of the master lease.

Vice-Chair Nahale-a asked about how internal restructuring has improved management as opposed to the previous management structure. Chancellor Irwin replied that one of the major issues with the original management structure that was consistently mentioned was its multijurisdictional nature which created vagueness and confusion with regard to management policy, responsibility, and authority. The new management structure has remedied this situation by creating CMS to serve as the single point of contact over issues relating to the internal management of Maunakea thereby clarifying lines of authority and accountability and improving management efficiency. She also stated that the efforts of Kahu Kū Mauna and MKMB to expand board membership will allow for greater community engagement and increased responsiveness to community voices, a major tenet of the internal restructuring plan. President Lassner added that the presentation given to the board at this meeting was an example of a positive change in the management of Maunakea resulting from the reorganization. He stated that, under the previous management structure, such a presentation would have been less cohesive and coherent due to the more disjointed nature of responsibilities under the previous management structure.

Chair Moore questioned whether the orientation video and other educational materials developed by ‘Imiloa were mainly geared towards commercial tour operators, as well as employees and volunteers working on Maunakea. Ms. Kimura responded in the affirmative. Chair Moore inquired as to whether similar programming was available for other individuals such as tourists visiting Maunakea. Ms. Kimura replied that the suite of educational materials, including the orientation video, could also be used by general day visitors and are available online. ‘Imiloa is also working on producing a
condensed version of the orientation video for the general public to view either online or at the VIS. Chair Moore thanked Ms. Kimura for 'Imiloa’s efforts, opining that the current situation provided an excellent opportunity for educating visitors about Hawaiʻi.

Vice-Chair Kudo commended the work and efforts of all of the individuals working on improved management and stewardship of Maunakea. He also lauded the efforts of 'Imiloa in developing and implementing in-depth, cultural training programs for residents and visitors alike, noting that this was an issue contained within the original CMP adopted in the 1980s that was never addressed. He noted the importance of continuing to improve the management of and care for Maunakea and urged the administration to continue efforts to fulfill its obligations with respect to Maunakea.

Regent Acoba stated that he was unfamiliar with the work being conducted by the MKWG convened by the Legislature. He asked whether there was any update on the direction being considered by the MKWG regarding the management of Maunakea and if this would affect the university’s plan to seek renewal of the land-use authorization for telescope use on Maunakea. Chancellor Irwin, who serves as the board representative on the MKWG, replied that a draft report of the findings and recommendations of the MKWG was expected to be released on December 16, 2021, and would contain this information. The impacts of the decisions made by the MKWG on the university’s pursuit of a new master lease remain unclear as it is uncertain whether any legislation will be introduced as a result of the group’s work. She noted that she has repeatedly stated that management and stewardship of Maunakea is the university’s kuleana and will remain so until such time that someone says otherwise. As such, the university will continue to press forward with its work to improve management and stewardship, including seeking renewal of the master lease.

Noting that Chancellor Irwin served as the board representative on the MKWG, Regent Acoba questioned if the university administration was also represented on the group. President Lassner replied that no other individual from the administration was serving on the MKWG. He stated that the working group, which was created pursuant to a resolution passed by a single chamber of the Legislature that established the group’s membership, only provided for one individual to serve as a representative of the board. After discussions with then-Board Chair Kudo, it was decided that Chancellor Irwin would be best suited to serve as the board’s representative on the working group.

Regent Acoba remarked that the presentation updating the board on the management of Maunakea was comprehensive, informative, and well-done.

Chair Moore also expressed his appreciation for the presentation which he noted was impressive, informative, encouraging, and illustrated the amount of work that was being conducted by the administration on this matter.

B. Partial Report of the Maunakea Plan Review Permitted Interaction Group (Task Group) Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawaiʻi Maunakea Lands – E Ō I NĀ Leo (Listen to the Voices) (For Information Only – Pursuant to Section 92-2.5(b), Hawaiʻi Revised Statutes, regarding permitted interaction groups, no Board
deliberation or action can or will occur at this meeting on the Maunakea Master Plan or the report of the Maunakea Plan Review Permitted Interaction Group. Deliberation and decision making will occur at the next Board meeting.)

Chair Moore explained the processes, procedures, and statutory parameters that govern permitted interaction groups reiterating that discussions on this matter were prohibited at this meeting. He noted that the Partial Report of the Task Group that contains the findings and recommendations of the permitted interaction group has been provided in the board materials packet, with discussion and potential action scheduled to occur at the next board meeting.

Vice-Chair Nahale-a, who served as the Chair of Task Group, thanked the members of the Task Group for their work and meaningful engagement on this issue. He stated that he was looking forward to having discussions on this matter at the next board meeting.

Vice-Chair Kudo mentioned that the Committee on Independent Audit will be considering an amendment to the Internal Audit Work Plan in the near future to request that a management audit of the university’s new internal management structure of Maunakea be conducted to, in part, determine the success of the reorganization of the university’s Maunakea related entities.

V. ANNOUNCEMENTS

Chair Moore announced that the next board meeting was scheduled for January 20, 2022, at a location to be determined.

VI. ADJOURNMENT

There being no further business, Regent Westerman moved to adjourn, seconded by Regent Wilson, and with all members present voting in the affirmative, the motion carried and the meeting was adjourned at 10:37 a.m.

Respectfully Submitted,

Kendra Oishi
Executive Administrator and Secretary of the Board of Regents
Item IV.
Report of the President
A-F

NO MATERIALS
ORAL REPORT
Item IV.G.  
Report of the President  
UH Mānoa Campus  
Presentation
WELCOME TO UH MĀNOA!

Board of Regents | January 20, 2022
OUR STRATEGIC GOALS

OUR MISSION
Located in the most diverse community and environment in the world, the University of Hawai‘i at Mānoa is a globally recognized center of learning and research with a kuleana to serve the people and places of Hawai‘i, and our neighbors in the Pacific and Asia. We cultivate creative and innovative leaders who mālama our people, our places, and our ways of knowing in order to sustain and transform our islands and the world.

OUR VISION
We will be locally and globally recognized as a premier student-centered, Carnegie Research 1, community-serving university grounded in a Native Hawaiian place of learning that summons our rich knowledge systems to help mālama Hawai‘i and the world for future generations.
Student Characteristics

- **60%** Hawai‘i (in-state)
- **34%** Out-of-State & U.S. National
- **6%** International
- **33.2%** Asian*
- **26.6%** Caucasian
- **18.3%** *Native Hawaiian or Other Pacific Islander
- **2.1%** Hispanic
- **1.8%** African American
- **0.5%** American Indian or Alaskan Native
- **128** Countries & Regions Represented
- **16.7%** Multiracial
- **0.6%** Unknown
- **51%** Top 25% in H.S.
- **65%** Female
- **3.67** Avg. H.S. GPA
- **19,098** Total Fall 2021 Enrollment (14,120 Undergraduate, 4,978 Graduate, 343 Law, 437 Medicine)
- **9.1%** - Filipino
- **6.3%** - Japanese
- **4.4%** - Chinese
- **1.9%** - Korean
- **9.2%** - Mixed Asian
- **2.3%** - Other Ethnicities

*Native Hawaiian or Other Pacific Islander:
- **17.2%** - Native Hawaiian or Part Hawaiian
- **1.1%** - Other Pacific Islander
15 COLLEGES & SCHOOLS

• College of Arts, Languages & Letters
• College of Education
• College of Engineering
• College of Natural Sciences
• College of Social Sciences
• College of Tropical Agriculture and Human Resources
• Hawai‘i‘iuniversity School of Hawaiian Knowledge
• John A. Burns School of Medicine
• Thompson School of Social Work
• Nancy Atkinson-Walch School of Nursing
• William S. Richardson School of Law
• Shidler College of Business
• School of Architecture
• School of Ocean & Earth Science & Technology

NUMBER OF DEGREE PROGRAMS UNIVERSITY DISTINCTIONS

100 Bachelors
89 Masters
57 Doctorate

1st place for the Best College in the State of Hawai‘i (2021, Honolulu Star Advertiser).
Ranked top 2% in the world for academic and research excellence (2022 Quacquarelli Symonds (QS) World University Rankings).
Ranked in the top 18 International Business undergraduate programs (U.S. News & World Report).
We have our own marine research island called Moku O Lo‘e less than a mile off the coast of O‘ahu.

SPECIAL ACADEMIC OPPORTUNITIES

• Combined Bachelors and Masters (BAM) Degree Pathways
• Honors Program
• International Research
• National Student Exchange
• Study Abroad & Mānoa International Exchange
• Student Internships & Cooperative Education
• Undergraduate Research Opportunities Program

25 foreign languages taught on our campus, the most of any university in the U.S.
5th most beautiful campus in the country (2018, Best College Reviews).
Ranked in the top 30 public universities for federal research funding in engineering & science (National Science Foundation).
Among the top 12 departments in the U.S. for Physics & Astronomy (National Research Council).

TOP 1.5%
UH Mānoa is consistently ranked among the top 1.5% of nearly 24,000 universities in the world!

NUMBER OF DEGREE PROGRAMS

RANKING GLOBAL U.S.
Academic Ranking of World Universities (China) 301-400 90-110
TIMES World University Ranking (UK) 251-300 63
QS World University Ranking (UK) 340 62
U.S. News Best Global Universities 376 105
Student Support During COVID

- COVID Response Team (CRT) providing contact tracing for all reported COVID cases.
- COVID-19 testing at no charge for on-campus residence hall students offered at University Health Services.
- Established Student Housing procedures for medical quarantine and isolation for on-campus residence hall students.
- Increased access to physical health services via in-person and online telehealth (HIPAA compliant software).
- Increased access to mental health services via in-person, online telehealth (HIPAA compliant software), drop in group support, and training.
- Increased access to support services via in-person and online appointments with academic advisors and other student services specialists.
Academic Support During COVID

• Provided **professional development** programming throughout the academic year and summer workshops for online course development

• Outfitted 75 classrooms with “HOT” technology to allow students to attend the same class either remotely or in-person and provided student assistants to faculty teaching in this course format

• Developed a **technology loan program** for students without laptops, headphones, and other necessary tools for online learning such as hotspots for those without internet access

• Offered additional **Learning Assistants** in sections of challenging courses to provide more support for students

• Initiated the “**Innovation & Impact Showcase**” to recognize excellent teaching during COVID and to create for faculty a resource with examples of effective classroom practice
UH Mānoa’s Excellence in Research

Carnegie R1 doctoral university categorized among public universities with highest research activity (1 of only 100 public universities in U.S. in this elite group).

In the U.S., UHM ranked 58th among all R1 public universities and 91st among all public/private universities in extramural research expenditures ($276 million; NSF, FY20)

FY20 NSF Higher education R&D expenditures rankings in:

- Ocean sciences and marine sciences: 6 out of 443 (1%)
- Geological and earth sciences: 15 out of 443 (3%)
- Astronomy, Chemistry, Materials Science, Physical Sciences: 46 out of 545 (8%)
- Biological and biomedical sciences: 84 out of 597 (14%)
- Agricultural Sciences, Natural Resources and Conservation: 48 out of 319 (15%)
Research awards increased from FY18 to 21: $51 million (↑17%)

<table>
<thead>
<tr>
<th>Unit</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tr>
<td>SOEST</td>
<td>93.1</td>
<td>91.1</td>
<td>99.1</td>
<td>99.2</td>
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<tr>
<td>School of Medicine</td>
<td>60.0</td>
<td>53.1</td>
<td>46.5</td>
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<td>College of Natural Sciences</td>
<td>32.2</td>
<td>36.6</td>
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<td>34.4</td>
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<tr>
<td>UH Cancer Center</td>
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<td>23.1</td>
<td>30.1</td>
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<tr>
<td>Institute for Astronomy</td>
<td>15.7</td>
<td>18.8</td>
<td>25.5</td>
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<td>14.0</td>
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<td>College of Social Sciences</td>
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<td>15.8</td>
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<td>Other campus units &lt;10.0</td>
<td>34.4</td>
<td>34.1</td>
<td>43.7</td>
<td>44.4</td>
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<td><strong>UHM Total</strong></td>
<td><strong>301.1</strong></td>
<td><strong>314.5</strong></td>
<td><strong>338.0</strong></td>
<td><strong>352.6</strong></td>
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</table>
Internationally Renowned Research

Our innovative research leverages our unique Pacific-Asia location and our faculty expertise in strategic areas of research with local and global impact:

• Earth sciences (Dept. of Earth Sciences; HIGP)
• Ocean sciences (Dept. of Oceanography; HIMB)
• Astronomy (Institute for Astronomy, Dept. of Physics and Astronomy)
• Renewable energy (Hawaii Natural Energy Institute)
• Biodiversity (C-MĀIKI; PBRC; PCSU)
• Health disparities (JABSOM’s Ola Hawaii; UH Cancer Center’s MEC)
• Health Analytics (Pacific Health Analytics Collaborative)
• Advanced Data Visualization (Laboratory for Advanced Visualization & Applications)
A Few of Many Recent Impactful Research Stories

• **New sensors on space telescope**: Ground-breaking UH-designed sensors aboard NASA’s historic space telescope

• **Coastal communities**: Indigenous communities gain improved access to oceanographic data

• **COVID19 variant predictions**: Research predicting transmissible COVID-19 variants receives $780K

• **Weather monitoring**: $1.33M grant to better understand, forecast Hawai‘i’s complex weather and climate

• **Developments in AI**: National AI partnership, research to benefit Hawai‘i communities

• **Healthy Keiki**: $10M food systems project to prevent chronic disease among Pacific children

• **Endangered plants**: UH experts help to save rare endangered plant from brink of extinction
Connecting Research to Student Success: Undergraduate Research Opportunities Program (UROP)

With OVPRS investment since 2018, UROP has grown significantly:

**Project and Presentation Funding (AY11-18 v. AY19-21)**
- ↑ 45% funding distribution ($296k to $428k per AY)
- ↑ 62% in number of applications (153 to 248 per AY)

**Undergraduate Showcase (AY17-18 v. AY19-21)**
- ↑ 50% in number of student presenters (104 to 156 per AY)

**Summer Undergraduate Research Experience (SURE)**
- ~100 participants and 62 presenters per AY
- To date, provided $257,000 to support undergraduate students doing faculty-mentored research/creative work in the summer

**Research/Creative Work Database (Student Opportunity Center)**
- Since inception in Fall 2019: 23,000 student searches for research/creative work opportunities
<table>
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<th></th>
<th>FY 2017</th>
<th>FY 2018</th>
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<td>$217,223,774</td>
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<td>$454,665,866</td>
<td>$460,760,409</td>
<td>$453,953,177</td>
<td>$475,042,092</td>
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**FY 2021**
WASC Reaffirmation of Accreditation
November 8 – 12, 2021 (Remote Review)

Themes aligned with strategic plan objectives. More than 60 students, 100 faculty and staff in open meetings.

<table>
<thead>
<tr>
<th>Commendations</th>
<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ambitious themes, tackling challenging areas; commitment to a collaborative and inclusive process;</td>
<td>1. Over consecutive budgets, align resource allocation with thematic priorities to minimize reliance on soft money;</td>
</tr>
<tr>
<td>2. Campus Wayfinding (signage) project that incorporates Native Hawaiian navigation; a model for other institutions;</td>
<td>2. Work with the Board of Regents to develop a conflicts-of-interest policy to address the dual role of the President;</td>
</tr>
<tr>
<td>3. Approach to sustainability and resilience education through the Institute for Sustainability &amp; Resilience to advance teaching, research and service missions;</td>
<td>3. Tie thematic priorities to measurable, time-bound targets that are visible, accessible, and actionable;</td>
</tr>
<tr>
<td>4. STAR data-informed apps that assist with campus planning, enrollment management, and student support;</td>
<td>4. Regularly survey the campus to ensure a supportive climate for our diverse campus community;</td>
</tr>
<tr>
<td>5. Campus culture where faculty, staff, and administration take seriously our commitment to support students.</td>
<td>5. Continue journey to become a Native Hawaiian Place of Learning with greater transparency, inclusion, consensus, and resource support. Invite Native Hawaiian students, staff and faculty to generate a mutually agreeable vision.</td>
</tr>
</tbody>
</table>

Full report available online: [www.manoa.hawaii.edu/wasc](http://www.manoa.hawaii.edu/wasc)

Next Step: WASC Commission review and decision at the end of February.
“Āina, it doesn’t just mean food which feeds; it’s also the old word for ‘ohana, for family. And that’s because it was recognized that the land is us. Your environment is a reflection of yourself.”

Kahwood Akana
BS, Tropical Plant & Soil Sciences
(UH Mānoa, 2019)
Current master’s student in Tropical Plant & Soil Sciences

“A lot of people are looking at coral, a lot of people are looking at larger fish species. Everyone is looking at everything but invertebrates. Climate change is affecting everything, it’s important to protect our smallest species, as well as our largest.”

Kelsey Maloney
BS Bachelor of Science, Marine Biology, Current student

“Any dream should have a component of helping others within it - environmental design is about thinking more than ourselves. Great design is egoless. It needs to connect to the site, to the people, to the issues that it is trying to resolve.”

Beau Nakamura
BEnvD Bachelor of Environmental Design (Architecture), Current student

“There’s this mindset of, kill the old, let it go - only focus on the new, that’s how we innovate. But that’s not how I was really raised, and that’s not what I think is the only way.”

Tate Castillo
BBA Finance, International Business, Entrepreneurship (UH Mānoa, 2018)
Current MBA/JD student
Success will be measured in our financial health, and in the quality and impact of our academic programs, our research & scholarship, our service, and our contributions to the social and economic wellbeing of the people of Hawai‘i.

Overall approach: informed by the data and information gathered and posted in 2020 during the very inclusive Post-Pandemic planning process, the Mānoa Strategic Plan, and the “Performance Indicators for Prioritization” guidance document, we adopted the following, multi-component approach:

- **Re-shaping our campus workforce.** We re-designed our hiring process so that as we emerged from the hiring freeze, we focused our hiring in those areas of the university that are the highest priority, using the “Performance Indicators for Prioritization” developed in the fall of 2020 by a working group of faculty, staff, students, and administrators.

- Implementing the recommendations from [Planning for Post-Pandemic Hawai‘i](#). Initiatives that will produce both cost savings and increased revenue. These include program stop-outs and consolidations, department reorganizations, and innovative new programs and program delivery modalities.

- Implementing the [administrative reorganizations](#) initiated in the Phase 1 and Phase 2 campus reorganizations, with the aim of significantly improving our support to students and faculty while also realizing cost savings and a reduction in bureaucracy.
Associated Students of the University of Hawaiʻi at Mānoa (ASUH) 109th Senate

Presentation by ASUH President
J. Jungha Kim
Continued Initiatives

- ‘Ōlelo Hawai‘i classes
- ASUH Scholarships
  - General
  - Research Awards
  - Study Abroad
  - *Community Engagement
- Dean Hall name change
- Student Needs Survey
Spring 2022 Initiatives

- ASL Degree Program
- Workshops for Students
  - Sustainability
  - Legislative Testimony
- LGBTQ+
  - Inclusion of Pronouns in UH system
  - Preferred names on Diplomas
- U-PASS Negotiations
- In Support of a Sick Leave Policy for Graduate Student Employees
The University of Hawaiʻi at Mānoa
Graduate Student Organization

Contact: gso@hawaii.edu
Website: https://uhmgso.wixsite.com/website-1
Mark Willingham, GSO President
January 20, 2022
COVID-19 Continued Response & Presence

- Shifted to Zoom for monthly General Assembly meetings, Executive Council meetings, and events
- Representation and active participation in New Graduate Student Orientation welcome panel
  - Post-Pandemic Reorganization Consultative Group
  - Meetings with UH leadership virtually
  - Provost Council, Student Caucus, Graduate Council, Faculty Senate
  - Commission for LGBTQ Equality
  - UH System Student Basic Needs Committee
- Successfully filled all open EC positions during the fall semester, active summer interviewing
- Virtual retreat with members (relationship building, goal setting, etc.)
Advocacy & Priorities

- Implementing a **sick leave policy** for graduate student employees with the support of Graduate Division and OVCAA
- Post-Pandemic Reorg: conducted **formal consultation** with Provost Michael Bruno; continued **participation** in related groups/committees
- **Needs Assessment Survey** of Graduate Students
- Graduate student **professional headshots** (up to 24 students)
- **Monthly newsletters** (open positions, funding opportunities, events, GA opportunities, etc.)

Provost Michael Bruno, Wendy Pearson, and GSO Executive Council members at the GSO General Assembly consultation webinar in November 2020
Awards Programs

Grants & Awards Program
- Shifted focus to funding research materials and participation in virtual conferences
- Raised maximum award to $2000 for all applications
- Reinstated travel based awards under UH leadership approval

Merit Based Awards Program
- Granted 16 awards of $5000 each (15 Spring 2021, 1 fall 2021), addition of $30,000 from GSO funds because of limits on travel funding
  - Diversity
  - Mentorship
  - Research
  - Service & Outreach
  - Teaching
- Gearing up for 2022 application cycle
Virtual Professional Development and Social Events

Fall Semester

Important Dates

November 9    Fall 2022 Graduates’ Theses/Dissertations due to the Grad Division
December 9    Last day of Instruction
December 15 - 17    Final Exams
December 17    Semester Ends
December 18    Tentative Commencement Date

Fall Semester GSO General Assembly Meetings

November 18 | December 9

GSO
COFFEE HOUR
WITH MĀNOA HERITAGE CENTER
Click here to join us for a virtual tour and activity of the Mānoa Heritage Center on 11/09 at 3PM

PLEASE PARTICIPATE IN OUR NEEDS ASSESSMENT SURVEY!

The GSO is conducting a brief needs assessment of graduate students. Your responses will help the GSO determine areas of focus and events, as well as how to best advocate for the needs of graduate students. Participate in our survey here by November 12th!

GRADUATE STUDENT HEADSHOTS

Sponsored by GSO

Sign up to receive a FREE headshot. Limited to one background/one outfit. Optional touch-up services available ($25 touch-up fee).
Congress (all 1,764 UH Manoa faculty members)

Senate (71 elected representatives from 19 constituencies)

8 Standing Committees

2 Continuing Committees

Senator Members on Graduate Council

www.hawaii.edu/uhmfs/
Senate participates in shared governance (RP 1.210) through recommended actions on academic policy, new academic programs, reorganizations, general education, student welfare, administrative actions, and the general good and welfare of the university

- Engagement with committees
- Comments on policy revisions
- Formal consultation
- Resolutions adopted by the Senate
Post-Pandemic Planning

Student welfare, instructional quality, university organization, university finances

Tenure PIG

Response to the report
General Education Redesign

CAPP, GEC, CAB, and CEE conducting a thorough review and developing suggestions

Course modality

What is appropriate
About MSS

The Mānoa Staff Senate serves as the voice for all staff at the University of Hawai‘i at Mānoa. It is the officially recognized shared governance body responsible for collaborating with the Administration on university policies and operations that impact staff.

Our mission is to advocate for staff members and provide a forum for staff to voice their ideas and concerns. We are constantly working towards inclusion, fairness, and transparency.
Year-in-Review | 2021

• MSS Lunch and Learn (April 9, 2021)
• MSS Brown Bag Forum | Return to Campus (June 4, 2021)
• MSS Virtual Open Forum (September 29, 2021)
• Mānoa Reorganization | Administrative
• UH Football on Campus
• New Campus Committee Assignments
Top Priorities | 2022

1. Safe Return to Campus – including Telework Policy
2. Mānoa Reorganization | Academic
3. Significant Changes to the MSS Bylaws
4. All Campus Council of Staff Senate Chairs (ACCSSC)
Mahalo

manoa.hawaii.edu/staffsenate
Agenda Items:

A. Review and Acceptance of University of Hawai‘i Audit Reports as of June 30, 2021, including:
   1. Audited Financial and Compliance Reports
   2. Corrective Action Responses for the Federal Compliance Findings
   3. Internal Control and Business Issues Report
   4. Corrective Action Responses for the Internal Control and Business Issues Report

Mr. Cory Kubota, with Accuity LLP, provided an overview of Accuity’s audit of the university’s consolidated financial and compliance reports and highlighted revenue trends and financial liabilities. He also reviewed Accuity’s roles, responsibilities, and communication requirements in conducting its audit. The audit did not find significant risks, exposures, weaknesses, difficulties, or material uncertainties but noted minor, technical internal control issues which are identified in the Internal Control and Business Issues Report. Discussions occurred on some of the revenue trends and unfunded liabilities related to the university, including pension and other post-employment benefit (OPEB) liabilities, as well as minor issues noted by Accuity in its report.

Action: The committee voted to accept the report.

B. Review and Acceptance of the Annual Report to the Legislature on Material Weaknesses and Fraud

Glenn Shizumura, Director of the Office of Internal Audit (OIA), reported that there were no findings of material weaknesses, fraud, or illegal acts and noted that a report will be sent to the Legislature on behalf of the committee.

Action: The committee voted to accept the report.

C. Review and Acceptance of UHM Intercollegiate Athletics Audit Reports for the Year Ended June 30, 2021

Mr. Kubota provided an overview of Accuity’s report on agreed-upon engagement procedures to ensure that the UHM Athletic Department’s (UHM Athletics) statement of revenues and expenses for the year ended June 30, 2020, was compliant with the National Collegiate Athletic Association (NCAA) bylaws. He noted that no material misstatements were made by UHM Athletics and that no exceptions were detected. It was also noted that the financial condition of UHM Athletics continues to be fragile due to the ongoing struggle to generate operating and fundraising revenues, while continuing to manage operating expenses. Discussions occurred on donations made to UHM Athletics by the ‘Ahahui Koa Ānuenue booster club, as well as the addressing of OPEB liabilities in ensuring the financial stability of UHM Athletics going forward.

Action: The committee voted to accept the report.

D. Review and Acceptance of Review of Check Disbursements Less Than $2,500 – Status of Corrective Action
Internal Auditor Shizumura reported on the status of corrective actions taken by the university to address improvement opportunities and mitigate risks documented in a review of check disbursements for less than $2,500 report dated January 12, 2018. OIA concluded that all recommended corrective actions have been implemented by the administration.

**Action:** The committee voted to accept the report.

**E. Review and Acceptance of the Status for the Implementation of Government Accounting Standards Board Statement No. 87 (GASB 87), Leases**

Internal Auditor Shizumura explained the new requirements contained within GASB 87, noting that the university’s General Accounting Office (GAO) has developed and is currently executing its GASB 87 implementation plan. OIA believes GAO’s implementation plan supports the effective application of GASB 87 in connection with the university’s financial statements for the years ended June 30, 2021, and 2022, in compliance with federal requirements. Discussion occurred on the retroactivity of GASB 87 and the impacts it would have on the way in which the university accounted for its leases.

**Action:** The committee voted to accept the report.

**F. Review and Acceptance of UHH Intercollegiate Athletics Audit Report – Status of Corrective Action**

Internal Auditor Shizumura reported that UHH Athletics provided a corrective action response to address the findings and recommendations contained in a report regarding Accuity’s engagement on agreed-upon procedures for financial and compliance matters which UHH Athletics is subject to every three years as a NCAA Division II member. Given the three-year engagement interval, OIA was requested to evaluate UHH Athletics’ implementation of corrective action during the fiscal year ended June 30, 2022. OIA has concluded that UHH Athletics has implemented all corrective actions.

**Action:** The Committee voted to accept the report.

**G. Audit Project Status Update**

Internal Auditor Shizumura provided a status update on all of the projects and audits outlined in OIA’s 2021-2022 work plan and presented a chart indicating new and ongoing carryover projects, as well as the current status of each of these projects. Chair Kudo spoke on the appropriateness of amending the Internal Audit Work Plan in the near future to request that a management audit of the university’s new internal management structure of Maunakea be conducted to, in part, determine the success of this reorganization effort.

**H. Whistleblower Report**

Internal Auditor Shizumura provided an overview of the whistleblower summary and tracking reports noting that cases involving health and safety issues related to the COVID-19 pandemic have been the leading cause of whistleblower complaints since July 1, 2021.

**I. Update on OIA Electronic Data Recovery Plan**
Internal Auditor Shizumura reported that, in response to concerns raised by the committee with respect to data security, OIA has worked with the university’s information technology staff on developing a more structured approach to secure, offsite data storage which has been implemented and is working well.

J. Enterprise Risk Management (ERM) Update

Jan Gouveia, Vice President for Administration, provided an ERM update noting that the administration continually assesses risk exposures to the university as part of its internal control process and the committee’s internal control program. She stated that the top risk categories identified by the administration were financial resiliency and the maintenance of health and safety.

K. Audit Plan and ERM Integration

Internal Auditor Shizumura reviewed the process used by OIA in developing its audit plan, as well as the ERM process used by the administration, and discussed OIA’s development of a plan to utilize an independent risk analysis to identify audit projects to address and mitigate the key risks identified in the annual ERM updates which could be included in its annual audit plan. OIA anticipates continuing to consult with the administration with respect to the integration of ERM with the audit plan.
Summary of December 2, 2021 Meeting

Agenda Items:

A. Annual Report on Regents Policies (RPs)

Board Secretary Oishi provided a report on the review and assessment of RPs that were conducted by the Office of the Board of Regents (Board Office), and provided preliminary comments and findings. The Board Office is in the process of requesting reviews of each RP by the appropriate administrative liaison. Any recommended amendments will be referred to the appropriate committee. A report on the status of the policy reviews will be provided to the committee no later than November 2022.

B. Discussion on Board Member Education and Development

C. Discussion of Possible Board Retreat Meeting Topics

The committee discussed various issue and topics related to board member education and development, and board retreats. Regents agreed that a board retreat should be held as soon as practical. A list of 30 topics of interest were identified and circulated via the materials packet. The topics were subdivided into topics that could be addressed at a board retreat, during board education and development, or a committee meeting. Regents expressed their general contentment with the proposed topics with several stating their belief that the list should be prioritized, possibly through a ranking process and provided their thoughts on several of the identified topics.

Based upon these discussions, the Board Office was asked to circulate the list to all regents to rate each topic as high, medium, or low priority, and compile the results for review by board leadership and subsequently presented to the full board for consideration.

D. Discussion of Request of All-Campus Council of Faculty Senate Chairs (ACCFSC) for a Faculty Seat on the Board of Regents

Discussions took place on a request received from the ACCFSC for a faculty seat on the board. It was noted that, while the size and composition of the board is statutorily established and its structure can only be changed by the Legislature, the board can decide to take a particular position on this matter should legislation be introduced to make such a change. Regents discussed this proposition in terms of its benefits and drawbacks noting numerous concerns, including potential conflicts of interest. Given this feedback, the matter was deferred.
Item V.C.
Affiliate Reports

SEE MEETING MINUTES
MEMORANDUM

TO: Randolph Moore  
Chairperson, Board of Regents

VIA: David Lassner  
President

VIA: Kaibert K. Young  
Vice President for Budget and Finance/Chief Financial Officer

VIA: Carrie K. S. Okinaga  
Vice President for Legal Affairs and University General Counsel

FROM: Vassilis L. Syrmos  
Vice President for Research and Innovation

SUBJECT: Request Approval of Indemnification Provision in a Grant Agreement between the W.K. Kellogg Foundation and the University of Hawai‘i

SPECIFIC ACTION REQUESTED:

It is respectfully requested that the Board of Regents ("Board") authorize the University of Hawai‘i ("University") to accept indemnification provisions in an agreement between the W.K. Kellogg Foundation ("WKKF") and the University ("Contract"). This request is made pursuant to Hawaii Revised Statutes Section 304A-110, appended as "Attachment 1" to this memorandum.

RECOMMENDED EFFECTIVE DATE:

It is recommended that the University be authorized to perform certain project activities and indemnify WKKF as set forth in the project agreement immediately upon Board approval of the indemnifications.

ADDITIONAL COST:

There are no additional costs associated with this request.

PURPOSE:

The purpose of this request is to obtain Board approval so that the University may enter into a sponsored research agreement with WKKF.
BACKGROUND:

The Project

The Bachelor of Applied Science in Sustainable Community Food Systems ("SCFS") at the University of Hawai'i West O'ahu educates and trains new generations of leaders in the trans-disciplinary field of agroecology to think across traditional disciplines and to use systems analysis to understand and actively solve for real-world problems and facilitate the transition to an healthy, equitable, resilient and sustainable food system. SCFS is an innovative college degree program that prepares undergraduate students for jobs in the sustainable food and agriculture sector in Hawai'i and beyond. SCFS is a trans-disciplinary, experiential and applied program focused on the analysis of key ecological and social issues in food and agriculture regionally and globally. The SCFS program incorporates extensive problem-based and hands-on learning in the natural sciences, social sciences, humanities and production agriculture to develop food system professionals capable of understanding and solving real-world problems and transitioning Hawai'i's food system toward greater ecological sustainability, climate change resiliency, public health and social equity through work in agriculture, policy-making, planning, business, research and education. This approach to sustainability education is consistent with the 2020 recommendations of the US National Academies of Science, Engineering and Medicine.

SCFS's goals include the following:

- Advance key sustainability initiatives of the UH System, the State of Hawai'i (e.g. Hawai'i Green Growth, Governor David Ige's Priorities for Hawai'i);
- Address the development of human capital, and a diverse workforce in food and agriculture sciences to support a sustainable agricultural system;
- Serve West Oahu and regional students interested in environmental science, sustainable economic development;
- Address the many pressing food system sustainability needs of the State of Hawai'i and the nation.

The University will 1) conduct an "eco-cultural" tourism market assessment to qualify and quantify visitor industry demand, support for price premiums, and preferences for local, ecologically sustainable and cultural foods; 2) conduct an assessment of Hawaii households emergency food storage to determine percentage of household with recommended 14-day supply of food and water as advised by the Hawai'i Emergency Management Agency; and 3) conduct a Hawai'i network of social network analysis of key actors, agencies, and organizations involved in the agri-food in Hawai'i to determine who holds influence in the food and agricultural systems at different scales to identify key pathways and explore connections that are currently lacking.

The University's Principal Investigator is Dr. Albie Miles. The award for the initial period is $529,708.00, the award period and budget cover a 2-year period for a total amount up to $1,000,000.00. Prospective funding is contingent upon submission and acceptance of satisfactory
progress towards achieving the stated goals and objectives. The term of the Agreement is November 1, 2021 to October 31, 2023 under grant agreement P-6004633-2021.

The Grant Agreement and the Indemnity Provision

As a condition to the award, the WKKF requires that the University indemnify and hold harmless the WKKF from certain liability caused by University personnel. Specifically, the WKKF, in its Grant Agreement Terms and Conditions ("Agreement"), includes the following provisions (bolded for clarity):

16. Release and Indemnity

To the fullest extent permitted by Hawaii law, Grantee shall release, Indemnify, defend and hold harmless the Foundation and its directors, officers, trustees, employees, representatives and agents from and against any and all claims, demands, suits, damages, liabilities, injuries (personal or bodily), property damage, causes of action, losses, judgments, costs, expenses and penalties, including, without limitation, court costs and attorney’s fees, arising out of (directly or Indirectly) or related in any way to the negligence, acts or omissions of Grantee or any Grantee director, officer, employee, subgrantee, contractor or aagent in connection with this grant, except to the extent resulting from the negligence or willful misconduct of the Foundation.

The University attempted to negotiate the deletion of this indemnification obligation in the Agreement. The WKKF agreed to include language that the University’s obligation would only be to the fullest extent permitted by Hawaii law, but the WKKF would not agree to the deletion of the University’s release, indemnify, defend, and hold harmless obligation in its entirety.

Risk Analysis:

None of the activities UH intends to undertake in performance of this research are inherently risky. The activities will include: assessing tourism market demand for products from local and sustainable food producers; surveying local households as to their level of emergency preparedness, especially regarding emergency stores of food and water; and analyzing Hawaii’s social networks and cooperative relationships in the food and agricultural systems. We do not anticipate that these project activities will incur unmanageable or significant risks.

To the extent the project activities involve outreach and instruction to students interested in environmental science and sustainable economic development, the UH already engages in educational and instructional activities as part of its core mission as university. The sponsored project activities will not add measurably to the risks undertaken and currently managed by the UH.

The survey methods will be conducted in accordance with the University protocols for human research conducted by UH personnel. The necessary training and oversight will also be completed in
compliance with the University protocols. Also, the project will ensure the confidentiality of participants and respondents.

The University will carefully train, supervise and manage the activities of its officers, employees, agents, consultants, contractors, or invitees in order to minimize the University's creation of liability.

For the foregoing reasons, the risks of indemnifying WKKF and its directors, employees, and agents from claims and losses due to the negligence of UH employees or agents during the course of performing this research are acceptable. The benefits to the community and the University from knowledge gained through this sponsored research outweigh the risks of indemnifying the research sponsor.

**ACTION RECOMMENDED:**

It is recommended that the Board of Regents approve and authorize the University to accept the indemnification provisions in an agreement between the W.K. Kellogg Foundation and the University of Hawai‘i for sustainable community food systems research that includes the indemnification clause listed above.

Attachment (HRS § 304A-110)

cc: Executive Administrator and Secretary to the Board of Regents
[§304A-110] Indemnification.

(a) Notwithstanding any other law to the contrary, the board of regents may agree in writing to an indemnity provision by which the university agrees to indemnify, defend, and hold harmless any person, corporation, or entity that sponsors research at the university when all of the following conditions are satisfied:

(1) The person, corporation, or entity requires an indemnity in writing as a condition for providing a grant, benefit, service, or interest in or right to use property;

(2) The president, or the president's designee, following a favorable review by the university general counsel or the counsel's designee, approves the proposed indemnification; and

(3) The chief financial officer, pursuant to section 304A-108, has obtained an insurance policy or policies in an amount sufficient to cover the liability of the university that may be reasonably anticipated to arise under the indemnity provision or has determined that it is not in the best interest of the university to obtain insurance.

(b) Nothing in this section shall be construed to expand the scope of liability of the university beyond that set forth in chapters 661 and 662.

(c) Nothing in this section shall be construed to waive the immunity of the university from suit in federal courts guaranteed by the Eleventh Amendment to the United States Constitution. An indemnity provision not in strict compliance with this section shall not give rise to a claim against the university under this chapter or chapter 661 or otherwise waive the university's sovereign immunity.
January 14, 2022

TO: Randolph G. Moore  
Chair, Board of Regents  

VIA: David Lassner  
President

SUBJECT: REQUEST FOR EXCEPTION TO REGENTS POLICY 5.219: EMERITUS/EMERITA TITLE

Please find attached the following materials requesting approval of exceptions to Regents Policy 5.219 to award the following titles:

1. Title of Dean Emeritus for Dr. Brian Taylor, School of Ocean and Earth Science and Technology (SOEST), UH Mānoa
2. Title of Professor Emeritus for Dr. Ronald Cambra, College of Arts, Languages and Letters, UH Mānoa
3. Title of Professor Emeritus for Dr. Edward A. Laws, SOEST, UH Mānoa
4. Title of Associate Professor Emeritus for Dr. Andrew Taylor, College of Natural Sciences, UH Mānoa

The requests have been reviewed by the appropriate Mānoa campus unit, deans and directors, Office of the Assistant Vice Provost for Faculty Excellence, Office of the Vice Provost for Academic Excellence, and Provost Bruno as well as the system Office of the Vice President for Academic Strategy.
MEMORANDUM

December 23, 2021

TO: Randolph Moore
   Chairperson, Board of Regents

VIA: David Lassner
     President, University of Hawaii System

VIA: David Lassner
     Office of the Vice President for Academic Strategy

FROM: Michael Bruno
      Provost, University of Hawaii at Manoa

SUBJECT: Request for Exception to the Regents Policy RP 5.219, Emeritus/Emerita Title, for Dean Brian Taylor, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa

SPECIFIC ACTION REQUESTED:
We respectfully request that the Board of Regents approve an exception to Regents Policy RP 5.219 for Dean Brian Taylor, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa, to be awarded the title of Dean emeritus.

RECOMMENDED EFFECTIVE DATE:
The recommended effective date is upon approval by the Board of Regents.

ADDITIONAL COST:
There are no additional costs associated with this request.

PURPOSE:
The purpose of this exception request is to seek approval of emeritus status for Dean Brian Taylor in recognition of his contributions to the School of Ocean and Earth Science and Technology (SOEST), and previously to the Department of Geology and Geophysics and Hawaii Institute of Geophysics as a longtime faculty member, and for his continued dedication to the University of Hawai‘i at Mānoa.
BACKGROUND:
Board of Regents Policy RP5.219, Emeritus/Emerita Title, governs the awarding of the emeritus title and further explains that the title is an honor bestowed upon retiring faculty in recognition of dedicated and honorable academic service rendered to the University, and to vice presidents and chancellors who have made exceptional contributions to the university and who are recognized as distinguished leaders in their field. Section IV. B., notes additionally that the President may recommend to the Board for consideration, individuals deserving of honor with designations that do not meet the stated criteria, such as Dean emeritus.

Dr. Brian Taylor was appointed Full Professor in the Department of Geology and Geophysics on 1 July, 1991 and was appointed Dean of SOEST on 1 July 2006. Thus, he has 15 years of service as a Full Professor and an additional 15.5 years as Dean. During the latter, he also served 3.3 years as Interim Vice Chancellor for Research from September 2012 through December 2015. Having been hired January 1st 1982, jointly as an Assistant Professor in the Department of Geology and Geophysics and as an Assistant Researcher in the Hawaii Institute of Geophysics and as an Assistant Researcher in the Hawaii Institute of Geophysics, he will complete 40 years of honorable service to the University upon retiring on December 31st 2021. He therefore meets the criteria for appointment to the University as Dean emeritus, but additionally/alternatively deserves recognition as Dean emeritus.

Dean Taylor’s contributions include outstanding achievements in scholarly research, facility operations, education, community service and academic administration.

During his time at UH Manoa, Dr. Taylor received $92 million in extramural awards: $74M as Principal Investigator and $18M as Co-Principal Investigator. He also administered an additional $15M of State funds cost matched against these grants, for a total grant volume of $107M. Funding was provided by the NSF ($62M), NOAA ($16M) ONR ($6M), and other sources ($8M). Of this, approximately $9M was in personal research and training grants (before becoming Dean), $13M as the inaugural P.I. of the Pacific Islands Ocean Observing System, and $70M was for UH/SOEST ship operations/services, before he delegated the latter two responsibilities in 2013.

He has participated in 40 oceanographic expeditions, on a dozen different national or international research vessels; 33 as chief or co-chief scientist, including on two legs of the ocean drilling program. He has produced 134 publications (including 9 books, 107 journal articles, 8 science news articles, and 10 maps and charts). His publications have been cited more than 14,000 times, with an individual high of over 1,500 and an h-index of 54.

Not only is he a world-class researcher, Dean Taylor also mentored numerous students, including graduating 5 Ph.D. and 7 M.S. students, and is currently supervising one Ph.D. student. He taught extensively at both the undergraduate (Structural Geology, Exploration Geophysics) and graduate levels, often providing inaugural (at UH Manoa)
Tectonics seminars in fields such as Continental Rifting, Island Arcs, Back-Arc Basins, and Ophiolites. He also convened, and was an invited speaker at, national and international conferences, including as a JOI/USSAC Distinguished Lecturer.

Dean Taylor has led, and served on, many high profile scientific boards and panels in his field. Chief among these have been his Chairmanship of the Integrated Ocean Drilling Program – Management International Board of Governors, of the PacIOOS Governing Council, of the NSF Margins Program, and of the JOIDES Western Pacific Panel; being an inaugural officer and the Treasurer of the Consortium for Ocean Leadership; serving as a member of the NSF Advisory Committee for Geosciences, of the Joint Oceanographic Institutions Board of Governors, of the JOIDES Executive and Planning Committees; and being a US Technical Advisor to CCOP/SOPAC.

During his Deanship, and supported by his leadership:

* **Development:**
  - SOEST benefitted from gifts of $166M via the UH Foundation
  - SOEST extramural funding has averaged over $100M per year, and 31% of the UH Manoa total, for the last twelve years.

* **Program Initiatives:**
  - The Center for Microbial Research and Education (C-MORE) was established (the first and only NSF Science and Technology Center at UH)
  - He inaugurated and then expanded the Pacific Islands Ocean Observing System
  - The Pacific Bioscience Research Center (PBRC) joined SOEST
    - PBRC faculty anchor the research programs in the new Life Sciences Building
  - The School continues as the premier research and graduate education program at UH
  - The School has ~1,000 employees (UH+RCUH), including ~200 graduate students
  - SOEST hosts the top two & the equal fourth globally ranked academic programs at UH
  - One SOEST faculty was elected to the National Academy of Sciences and two more Academy members were hired
  - The Graduate Program in Marine Biology was created in 2011, joint with Natural Sciences; established status was formally approved by the BoR in 2020.
  - The undergraduate certificate in Earth and Planetary Exploration Technology was created in the Hawaii Institute of Geophysics and Planetology in 2020.
  - The Global Environmental Sciences B.S. degree program applied for accreditation by the Applied and Natural Science Accreditation Commission, and the Ocean and Resources Engineering M.S. degree program maintained its accreditation by the Engineering Accreditation Commission, of ABET in 2021.

* **Facilities:**
  - C-MORE Hale was built and outfitted
  - The UH Marine Center moved to new facilities at Piers 34-35, Honolulu Harbor
  - The R/V Kilo Moana, for which he had overseen the scientific design, serves as the UH flag ship as part of the national research fleet
  - The Hawaii Undersea Research Lab was closed, the R/V Ka’imikai-O-Kanaloa was retired, as were the PISCES IV and V submersibles
  - The 6-km-depth capable ROV Lu’ukai was purchased and proven
Policy Initiatives: • inaugural (2006) and revised (2021) SOEST faculty bonus policy
• SOEST postdoctoral employee (vs stipend) policy, the first at UH
• SOEST initiated Search Advocate training, now a UH Manoa policy
• SOEST implemented a School-wide code of conduct
• The diversity of the tenured faculty and the executive committee increased three-fold

Service: • Taylor led an inter-island power cable route seafloor survey for the State DBEDT and, with HNEI, will continue to advise them and other interests on the siting of potential offshore wind energy farms as part of the State's renewable energy priority.

We believe that Dean Taylor’s sustained contributions to the University of Hawai‘i have earned him the honor of a Dean emeritus title by the Board of Regents.

ACTION RECOMMENDED:
It is recommended that the Board of Regents approve an exception to Regents Policy RP 5.219 for Dean Brian Taylor, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa, to be awarded the title of Dean emeritus.

c: Executive Administrator and Secretary to the Board of Regents Kendra Oishi

Attachments
December 7, 2021

TO: Charles “Chip” Fletcher, soon-to-be interim Dean of SOEST

FROM: David Karl
Professor of Oceanography & Director of C-MORE

SUBJECT: Emeritus Dean nomination

I am writing in strong support of your nomination of Brian Taylor for Emeritus Dean status upon his retirement from UH at year’s end. He should also be awarded the title of Emeritus Professor, in my humble opinion, for his many years of scholarly achievement in the rank of Professor, including his pioneering research on plate tectonics of the Pacific rim. Perhaps Emeritus Dean “trumps” Emeritus Professor, but he has earned both titles.

As you know, SOEST was officially approved by the UH Board of Regents on 22 July 1988. Chuck Helsley served in the capacity of interim Dean until C. Barry Raleigh joined UH as the inaugural Dean of SOEST on 1 October 1989. Raleigh served with great distinction until his retirement on 1 August 2003. During his ~14 years as SOEST Dean, Raleigh helped to shape and nurture the new School. New physical assets, including the POST building and the research vessel Kilo Moana, were brought into existence during Raleigh’s term as Dean. Following Raleigh’s resignation, Klaus Keil, then-Director of HIGP, was appointed interim SOEST Dean until a new permanent leader could be recruited. At the time of Raleigh’s retirement, and since 1994, Brian Taylor had served as SOEST Associate Dean of Research, so he was a “person of interest,” one of several finalists for the position, eventually the Chancellor’s choice for the next Dean of SOEST. His appointment began on 1 July 2006, so his term ran for a remarkable 15½ years, the longest serving Dean of SOEST to date!

During Brian’s tenure, SOEST became one of the true jewels in Manoa’s crown, as Chancellor Virginia Hinshaw used to say. Everyone within UH and throughout the community knew the importance of SOEST to the state, and also recognized its prowess as an institution built on scholarship and “research that matters.” However, great institutions like SOEST need effective, skilled, and reasoned leadership to succeed. The road to failure is very easy compared to the efforts that must be invested to sustain world class stature and continued success. Dean Brian Taylor was exactly the right person for this tough assignment, and he will leave an indelible mark of success after he retires. We all owe him a great debt of gratitude for a job well done. He has earned our respect and richly deserves the honorific title of Emeritus Dean of SOEST.
6 December, 2021

Board of Regents,

I am writing to enthusiastically support the nomination of Dr. Brian Taylor for Dean Emeritus. Dr. Taylor is one of the primary reasons I gave up a position as director of NOAA’s Pacific Marine Environmental Laboratory in Seattle, WA to move to Hawaii to join SOEST. His leadership over the last 15+ years has made SOEST the nationally and internationally recognized premier research and academic institution it is today. Dr. Taylor has made countless strategic investments and hires to keep SOEST relevant and on the cutting edge of science over the years. As Dean Emeritus, Dr. Taylor can provide valuable context and institutional knowledge necessary to ensure the continued success of the school. He can continue to advise the next generation of leadership to avoid pitfalls and mistakes that he has learned from over his many years of service. Making Dr. Taylor Dean Emeritus will also help instill confidence among the faculty and staff that the school will retain that institutional knowledge and continue to move in a productive direction as we charge into the future.

Respectfully,

Christopher L. Sabine
Associate Dear for Research, SOEST
Professor, Oceanography Department
Dear Chair Moore and UH Board of Regents members:

I am writing to respectfully ask you to grant Emeritus Dean status for Brian Taylor. Brian has been the best Dean of SOEST in my nearly 30 years of tenure at UHM. He has worked tirelessly to make SOEST the teaching and research powerhouse that it is today. His efforts have led to enormous growth in the stature, quality, scholarship, and research achievement of the faculty of SOEST. Last year, and averaged over the 11 years prior to that, SOEST researchers have raised ~$100 million annually in extramural support, while conducting a broad portfolio of research that matters. Thank you in advance for your consideration and attention in this matter.

Respectfully yours,

[Signature]

Professor and Chair
Atmospheric Sciences Department at UHM
To: Provost Bruno
From: Garrett Apuzen-Ito, Prof and Chair of the Dept of Earth Sciences
Re: Dr. Brian Taylor, Emeritus Dean

Dec. 3, 2021

On behalf of the Dept of Earth Sciences, I express our full support for Brian Taylor to become Emeritus Dean. From his initial appointments within our department (Geology & Geophysics at the time) and HIGP, to serving as Associate Dean of Research, Interim Vice-Chancellor of Research, and Dean of SOEST, Brian has made incredibly diverse and positive impacts at UHM and for the state. For ERTH, Brian has been a true scholar, having established a vigorous research program in marine geology and geophysics, and which has continued to this day with his ongoing advising of Ph.D. student, Elizabeth Benyshek. His participation on student committees and at department seminars has been intellectually meaningful and inspiring. Brian is incredibly well respected within ERTH both for his intellectual might as well as for how much he cares for and acts upon the well-being of students, staff, researchers, and faculty. Brian is exceptionally deserving of being made Emeritus, and we look forward to Brian’s continued engagement with ERTH and SOEST in this capacity.
Dec. 6, 2021

Board of Regents, University of Hawaii

Re: Nomination of Brian Taylor, Ph.D. for Dean Emeritus

Dear Board of Regents members:

I'm writing to offer my strongest support for the nomination of Brian Taylor for Dean Emeritus. Brian exhibits the epitome of leadership excellence and serves as an outstanding role model for all of the leadership traits I admire and aspire to. He is supportive and caring, while at the same time exhibits strength and resolve. His approaches and policies are firmly based in equity, fairness, and transparency, backed by data, not speculation.

My first encounter with Brian when he was Interim Vice Chancellor was a testament to his insightfulness, preparation and attention to detail. At an External Advisory Committee meeting for a large grant on which I was PI, I provided as background, graphs showing funding leveraged off the grant over nearly 3 decades. During coffee break, he showed a graph he had just made demonstrating the valid counterpoint that the funding tracked equally with faculty recruitment at JABSOM. He was correct in that both were major drivers of the successes. I also very much appreciated the fact that he brought it to my attention in the way he did, one-on-one during coffee break.

More recently, in every instance in which there has been a negotiation over resources, Brian's fair and objective approaches have been the same regardless of whether the resources were coming in or going out. As an example, he has been adamant that other units at UH were allocated their fair share of grant indirect costs, corresponding to direct costs, irrespective of how the reverse was handled by the recipient units. In my experience, he always takes the high road, and his leadership examples set a high bar across SOEST.

I can think of no one more deserving of Emeritus Dean status than Brian Taylor.

Sincerely,

[Signature]

Marla J. Berry, Ph.D., Professor and Director
Pacific Biosciences Research Center
University of Hawaii at Manoa
CURRICULUM VITA

Brian Taylor

School of Ocean and Earth Science and Technology, University of Hawaii at Manoa
1680 East-West Rd. Honolulu, Hawaii 96822, (808) 956-6182
taylorb@hawaii.edu, Fax: (808) 956-9152

Education

Ph.D., Columbia University, 1982 (M.Phil., 1979; M.A., 1978) in Marine Geology and Geophysics
B.Sc.Hons. (1st class), University of Sydney, 1976 in Geology and Geophysics

Professional Experience

2006-2021 Dean, SOEST, University of Hawaii at Manoa
2012-2015 Interim Vice Chancellor for Research, University of Hawaii at Manoa
1994-2006 Acting Associate Dean for Research, SOEST, University of Hawaii
1991-2021 Professor, Department of Geology and Geophysics, University of Hawaii
1995-1996 Adjunct Research Scientist, Lamont-Doherty Earth Observatory
1988 Visiting Researcher, Dépt. de Géotectonique, Université Pierre et Marie Curie, and Dépt. de Géologie, École Normale Supérieure, Paris
1985-1991 Associate Professor, Hawaii Institute of Geophysics and Department of Geology and Geophysics, University of Hawaii
1982-1985 Assistant Professor, Hawaii Institute of Geophysics and Department of Geology and Geophysics, University of Hawaii
1976-1981 Faculty Fellow and Graduate Research Associate, Lamont-Doherty Geological Observatory, Columbia University

Awards, Fellowships and Honors

1993-1994 JOI/USSAC Distinguished Lecturer
1976-1981 Fulbright Scholar
1976 Deas Thomson Honours Award in Geology
1976 Lee Richardson Honours Award in Geophysics
1975 Australian Institute of Mining and Metallurgy Bursary
1973-1974 Esso Australia Ltd. Scholarship

Professional Activities

2017-2021 PacIOOS Governing Council, Chair
2013-2016 Japan Agency for Marine-Earth Science & Technology Advisory Board, Member
2011-2015 NSF Advisory Committee for Geosciences, Member
2011-2014 Partnership for Observation of the Global Oceans, Exec. Cmte Member 2011-12
2010-2012 PacIOOS Governing Council, Chair
2007-2013 Consortium for Ocean Leadership, Board of Trustees (Treasurer: 2007-2012)
2007-2014 Integrated Ocean Drilling Program - Mgmt Intl Board of Govn., Chair 2009-11
2006-2007 Consortium for Oceanographic Research and Education Board of Governors
2003-2006 IODP-MI member for SOEST/UH
2001 Lead Proponent for the RIDGE Integrated Studies Site in the Lau backarc basin
1999-2000 InterMARGINS Steering Committee member
1997-2000 Chairman, MARGINS Program
1997-2004 InterRidge Backarc Basin Working Group member
1998-2000 Co-Chief scientist & ERB Chairman, W. Woodlark Basin Drilling
1996-2003 JOIDES Executive Committee member
1996-1999 Joint Oceanographic Institutions Board of Governors alternate member
1995-1997 NSF “Future of MGG” Steering Committee member
1995 NSF-OCE-MGG/ODP Proposal Review Panel member
1993-2007 UNOLS member, & chairman of SOEST Ships Users & Scheduling Committee
1993-1997 MARGINS Research Initiative, Steering Committee member
1993-1995 JOIDES Tectonics Panel, PCOM liaison
InterRidge Meso-scale Working Group, member
1993 Convener, JOI-USSAC conference on Active Margins and Marginal Basins
1991-1995 JOIDES Planning Committee member
1991-1992 JOIDES Offset Drilling Working Group, PCOM liaison
1990-1992 NSF Advisory Committee for Ocean Sciences member
Co-Chief Scientist & ERB Chairman, Izu-Bonin Arc Drilling
1985-1988 University of Hawaii Research Council member
Chairman, JOIDES Western Pacific Panel, ODP
1984-1988 National Oceanic Reflection Profiling Organization, Executive Committee member
Joint Coordinator, U.S.-Japan Cooperative ALVIN dives, Western Pacific
1983-1985 JOIDES Western Pacific Panel member, ODP
1982-1984 U.S.A. Technical Advisor to CCOP/SOPAC
Chairman, Marine Geophysics Division, Hawaii Inst. Geophysics
1977-2021 American Geophysical Union member
1974-1982 Society of Exploration Geophysicists member
<table>
<thead>
<tr>
<th>Year</th>
<th>Vessel</th>
<th>Expedition Details</th>
</tr>
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<tbody>
<tr>
<td>2021</td>
<td>R/V KILO MOANA 21-07*</td>
<td>ROV Lu'ukai dives, Kaiwi channel paleo-island &amp; reef</td>
</tr>
<tr>
<td>2017</td>
<td>R/V FALKOR*</td>
<td>Ellice Basin spreading, EM302 multibeam survey</td>
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<tr>
<td>2014</td>
<td>R/V KA'IMIKAI-O-KANALOA* PiscesV-840 dive (&amp; IV-283), Kaiwi channel</td>
<td></td>
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<td>2013</td>
<td>M/V AMERICAN EAGLE* PiscesV-811 dive (&amp; V-831), Kaiwi channel</td>
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<tr>
<td>2010</td>
<td>R/V KILO MOANA 10-01*-03*</td>
<td>Sea trials &amp; MGG survey of Hawaii north arch Mohole site</td>
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<tr>
<td>2009</td>
<td>R/V KILO MOANA 09-17*</td>
<td>Inter-island power cable route survey</td>
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<tr>
<td>2006</td>
<td>R/V KILO MOANA 06-15*-31*</td>
<td>IMI-30 &amp; Jason II trials, Kilauea south flank acoustic GPS</td>
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<tr>
<td>2004</td>
<td>R/V KILO MOANA 04-18*</td>
<td>East Woodlark Basin spreading &amp; margins (EM120, MGG)</td>
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<tr>
<td>2003</td>
<td>R/V KILO MOANA 03-26*</td>
<td>Canyons, reefs &amp; volcanism offshore Kauai &amp; Niihau</td>
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<tr>
<td>2002</td>
<td>R/V KILO MOANA 02-01*</td>
<td>Mission trials &amp; Simrad multibeam surveys (Cayman Trench)</td>
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<tr>
<td>2001</td>
<td>R/V MAURICE EWING 02-02*</td>
<td>Mariana trench-arc-backarc MCS (MARGINS SubFac)</td>
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<td>2000</td>
<td>R/V MAURICE EWING 01-11*</td>
<td>Gulf of Aden to Seychelles MGG transit</td>
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<td>1998</td>
<td>D/V JOIDES RESOLUTION*</td>
<td>ODP Leg 180, Woodlark Basin drilling</td>
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<tr>
<td>1996</td>
<td>R/V MOANA WAVE 04-07*</td>
<td>Lau Basin spreading, rifting &amp; ETZ; HMR1 &amp; MGG</td>
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<tr>
<td>1995</td>
<td>R/V MAURICE EWING 95-10*</td>
<td>Woodlark Basin MCS (imaging low-angle normal fault)</td>
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<td>1993</td>
<td>R/V YOKOSUKA 91-25*</td>
<td>Izu-Bonin arc, dredging of volcanic cross-chains &amp; rifts</td>
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<tr>
<td>1992</td>
<td>R/V MAURICE EWING 00-02*</td>
<td>Woodlark Basin OBS/H (seismicity &amp; refraction)</td>
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<tr>
<td>1990</td>
<td>R/V MAURICE EWING 90-04*</td>
<td>Izu-Bonin trench SHINKAI 6500 dives &amp; Furuno multibeam</td>
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<tr>
<td>1989</td>
<td>D/V SEDCO/BP 471*</td>
<td>ODP Leg 126, Izu-Bonin arc drilling</td>
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<tr>
<td>1987</td>
<td>R/V ATLANTIS II 118-18*</td>
<td>Sumisu Rift ALVIN dives &amp; SeaBeam</td>
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<tr>
<td>1985</td>
<td>R/V MOANA WAVE 85-18*</td>
<td>Manus Basin, bottom sampling &amp; photography</td>
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<tr>
<td>1984</td>
<td>R/V MOANA WAVE 85-05*</td>
<td>Woodlark, Manus &amp; Rabaul, SeaMARC II &amp; MGG</td>
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<tr>
<td>1983</td>
<td>R/V KANA KEOKI* (84-04-27 Legs 2 &amp; 3)</td>
<td>Sea trials, MCS test cruises</td>
</tr>
<tr>
<td>1982</td>
<td>R/V KANA KEOKI* (82-03-16 Leg 4)</td>
<td>Izu-Bonin arc rifting, forearc canyons &amp; serpentinite smts.</td>
</tr>
<tr>
<td>1980</td>
<td>R/V VEMA 80-07</td>
<td>South China Passive Margin MCS</td>
</tr>
<tr>
<td>1979</td>
<td>R/V VEMA 79-05</td>
<td>South China Basin MGG</td>
</tr>
<tr>
<td>1977</td>
<td>R/V VEMA 77-04*</td>
<td>Philippine Sea-South China Basin MGG</td>
</tr>
<tr>
<td>1977</td>
<td>R/V VEMA 77-04</td>
<td>South China Basin-Celebes Basin MGG</td>
</tr>
<tr>
<td>1976</td>
<td>R/V VEMA 76-03</td>
<td>Caroline Plate MGG (Mussau, Sorol &amp; Ayu Troughs)</td>
</tr>
</tbody>
</table>
Publications (134: 9 books, 107 journal articles, 8 science news articles, 10 maps & charts)

Books:


1999 Taylor, B., P. Huchon, A. Klaus et al., Proc. ODP, Init. Repts., 180, Ocean Drilling Program, College Station, TX, 95 pp. + CD-ROM.


Articles:


Guan, Q., T. Zhang, B. Taylor, J. Gao and J. Li, New magnetic data indicate successive ridge jumps and rotations of seafloor spreading in the South China Sea, Terra Nova, 33(5), 475-482, https://doi.org/10.1111/ter.12532


2016

2015

2013


2012

2011

2009


2008


Robertson, A.H.F., S. Awadallah, S. Gerbando, K. Lackenschwitz, B. Monteleone, T. Sharp, P. Huchon, B. Taylor, A. Klaus et al., Evolution of the Miocene-Recent Woodlark Rift Basin, SW


Taylor, B., Background and regional setting, in Taylor, B., P. Huchon, A. Klaus et al., *Proc. ODP, Init. Repts.*, 180, Ocean Drilling Program, College Station, TX, 1-20 [CD-ROM].


Klaus, A., B. Taylor, G. F. Moore, M. E. Mackay, G. R. Brown, Y. Okamura, and F.

Cooper, P., K. Dadey, A. Klaus, M. Lovell, P. Pezard, and B. Taylor, Correlation of core and seismic stratigraphy via vertical seismic profiling, and downhole and physical property measurements for the ODP Leg 126 forearc sites (787, 792, & 793), in Taylor, B., K. Fujioka et al., Proc. ODP, Sci. Results., 126, Ocean Drilling Program, College Station, TX, 575-591.

Marlow, M. S., E. L. Geist, M. A. Hobart, G. F. Moore, and B. Taylor, Comparison of multichannel seismic reflection data to a synthetic seismogram from ODP Site 786, in Fryer, P., J. A. Pearce, L. B. Stokking et al., Proc. ODP, Sci. Results., 125, Ocean Drilling Program, College Station, TX, 585-589.

Joseph, D., B. Taylor, and A. Shor, New sidescan sonar and gravity evidence that the Nova Canton Trough is a fracture zone, Geology, 20, 435-438.


Taylor, B., and P. Cooper, Reply to W.R.H. Ramsay's comments on "Polarity reversal in the Solomon Islands arc," *Nature*, 318, 392.


**Science News Articles:**


Leg 126 Scientific Drilling Party, ODP Leg 126 drills the Izu-Bonin arc, Geotimes, 34, 36-38.

Maps & Charts:


Graduate Advisor
M.S. 1987 Mary Rowe (NAVOCEANO)
1988 Robert Mallonee (Western Geophysical)
1989 Martha Systrom (URS Corporation)
2000 Kirsten Zellmer (LBNL then PG&E)
2004 Jonathan Weiss (Pacific Tsunami Warning Center)
2004 Masako Sugimoto (Japan seismic co.)
2006 Emily Chapp (Chevron)

Ph.D. 1985 Patricia Cooper (Dean, Graduate Division, UHM) co-advisor
1991 Glenn Brown (Consultant, Toronto)
1991 Adam Klaus (Snr. Staff Scientist, ODP-TAMU)
1998 Andrew Goodliffe (Assoc. Professor, U. Alabama)
2008 Adrienne Oakley (Assoc. Professor, Kutztown U.)
MEMORANDUM

TO: Randolph Moore
   Chair, Board of Regents

TO: David Lassner
    President

VIA: David Lassner
    President
   Office of the Vice President for Academic Planning and Strategy

VIA: Michael Bruno
    Provost

VIA: Laura Lyons
    Interim Vice Provost for Academic Excellence

FROM: Peter Arnade
    Dean, College of Arts, Languages & Letters

SUBJECT: REQUEST FOR EXCEPTION TO EMERITUS TITLE FOR PROFESSOR RONALD CAMBRA.

SPECIFIC ACTION REQUESTED:
Awarding of Emeritus Title for Professor Ronald Cambra, Department of Communicology

RECOMMENDED EFFECTIVE DATE:
Upon approval

ADDITIONAL COST:
No additional cost

PURPOSE:
To recognize the long and significant body of work in the Communicology Department and the University by Professor Ronald Cambra, since his appointment in 1974. Professor Cambra retired on January 31, 2021. The Communicology Department has unanimously voted to award the title.
BACKGROUND:

BOR Policy RP 5.219 and Executive Policy E9.209 establishes the honoring of “well qualified and respected retired UH faculty members. Professor Ronald Cambra retired at the rank of professor after 47 years of service to the Department of Communicology and the University of Hawaii. Dr. Cambra was promoted to the rank of professor on July 1, 1987. He was assigned an E/M position on February 1, 1992, which makes his service as a professor in a faculty assignment just short of five years, and thus an exception is requested to the Board of Regents to the time-in-rank criterion.

Professor Cambra has been an important part of the Communicology Department, the university and the community at large during 47 years of service. Dr. Cambra’s service to the department and to the university since his hire in 1974 is tremendous. He served as Chair of the department for 9 years. He also served as Associate Dean of Academic Affairs and Student Academic Services in Arts and Sciences for 13 years and Assistant Vice Chancellor for Academic Affairs - Undergraduate Education for 12 years.

Dr. Cambra has published 41 articles in national, regional and international journals and has co-authored six books. He implemented changes associated with academic advising, general education, recruitment, promotion and tenure, ROTC development and support and many more. While Assistant Vice Chancellor, the Student Success Center was established, START was developed and a new registration system was implemented.

Granting Professor Cambra emeritus status will facilitate his ongoing contribution to the University of Hawaii, as well as the local UH community. Dr. Cambra will continue to advise the Council of Academic Advisers, serve on departmental thesis committees, participate in colloquia, work as a faculty mentor with student athlete teams, serve as a faculty representative on student transfer issues, work on assisting ROTC program as a faculty adviser, continue to serve on the UH Manoa accreditation committee, serve as spokesperson for the Manoa Experience recruitment of mainland and resident students and lastly, he will serve as a faculty participant in any area of STAR development and implementation.

Through a vote, the faculty of the Department of Communicology unanimously supports the Dean’s office in nominating Professor Cambra for Emeritus status.

ACTION RECOMMENDED:

Awarding of Emeritus Title for Professor Ronald Cambra, Department of Communicology.

Attachment

c: Executive Administrator and Secretary of the Board of Regents Kendra Oishi
Email: cambra@hawaii.edu

Retired (2021)
Professor of Speech
Assistant Vice Chancellor for Undergraduate Education
University of Hawai‘i at Mānoa
Honolulu, HI 96822

I. EDUCATION

M.A., University of Hawai‘i, Mānoa, 1971, in Speech Communication
Ph.D., University of Washington, Seattle, 1975, in Speech

II. PROFESSIONAL POSITIONS

2005-2021 Assistant Vice Chancellor Academic Affairs-Undergraduate Education

1992-2005 Associate Dean of Academic Affairs and Student Academic Services, Arts and Sciences

1987 Professor, UHM

1983-1992 Chair, Department of Speech, UHM

1981 Associate Professor, UHM

1975-81 Assistant Professor, UHM

1974-75 Acting Assistant Professor, UHM

1971-74 Teaching Assistant, University of Washington

1970-71 Teaching Assistant, UHM
III. **TEACHING EXPERIENCE**


IV. **UNIVERSITY SERVICE**

A. **University Community**

- Member, Student Commencement Speaker Committee, 20XX – present
- Member, Student Success Center Steering Committee, January 2020 – present
- Member, University Council on Articulation, 2012 – present
- Member, Student Data Oversight Committee, 2017 – present
- Chair, NROTC Feasibility Committee, 2015
- Chair, NROTC Application Committee, 2015
- Member, UHM Enrollment Recruitment Committee, 2005 – present
- Member, ROTC Building Design Committee, 2020
- Member, STAR Quarterly GPS Meetings, 2018 – present
- Member, Returning Adults Steering Committee, 2018 - present
- Member, Committee on Scholarships, Fall 2008 - present
- Chair, UHM Articulation Committee, Fall 2009 - present
- Member, Committee on Enrollment Planning, Fall 2009 - present
- Chair, New Recruitment Committee, Fall 2005 - present
- OVCAA Representative, Council of Advisers, Spring 2006 - present
- OVCAA Representative, General Education Committee, Fall 2006 - present
- OVCAA Representative, STAR Coordinating Committee, Fall 2005 - present
- OVCAA Representative, Honors Futures Committee, Fall 2005 - present
- OVCAA Representative, Student Success Center Committee, Fall 2006 - present
- Member, WASC Steering Committee, Fall 2005 - present
- Chair, UHM Catalog Committee, Fall 1999 - present
- Associate, Center for Education Inquiry, UW, 1994 - present
- Chair, First Year at Mānoa Committee, 1998 - 2002, 2007
- Member, Teacher Education Coordinating Committee, 1995 – 2006
- Member, General Education Committee, March 1997 – 2000
- Member, NCAA Certification Committee, 1996, 2001, 2010
- Chair, Mānoa Academic Procedure Committee, 2001
- Member, Academic Procedure Committee, 1995 – 2010
- Member, Search Committee Athletic Director, 2002
- Member Search Committee Director Student Housing, 2001, 2006
- Member, Mānoa at the Millennium: Academic Experience Committee, 1999 – 2000
- Member, Student Information System Committee, 1997 – present
- Member, University Council on Articulation, 1994 - present
- Participant, Lilly Endowment, Colorado College, Colorado Springs, 1993
Chair, Committee on the Evaluation of Teaching, 1992
Service Learning Program Advisory Committee, 1994 - 1995
NCAA Athletic Certification Academic Integrity Committee, 1995 – 1997
Search committee for Office of Faculty Development, 1994, 1995
Member, Distance Education Advisory Council Task Force, 1994
Chair, Committee on Evaluation of Teaching, OSVPA, 1991
Chair, Arts and Humanities Telecommunication and Computers, 1989 - 1992
Member, Council on Program Reviews (COPR), 1990 – 1992
Chair, Program Review Committee, Speech Pathology and Audiology, 1991
Chair, Program Review Committee, American Studies, 1990
Member, Program Review Committee, Freshman Seminar Program, 1990
Member, University Council, Spark M. Matsunaga Institute for Peace, 1990 – 1995
Member, Vice President's Task Force on University Instruction, 1988
Chair, Graduate Program Review, Education Curriculum and Instruction,
College of Education, 1987
Member, Undergraduate Program Review, Psychology Department, 1987 – 1995
Chair, Philosophy Department Chair Search Committee, Arts and Humanities, Fall 1986
Member, Program Assessment Task Force, Chancellor's Committee UHM, Fall 1985
Chair, Program Assessment Task Force, Chancellor's Committee UHM, Spring 1985
Member, University Advisory Committee on Computing and Telecommunications (U-ACCT), 1985, 1986
Chair, College Reorganization and Charter Revision Committee, A & S, 1983 - 1984
Chair, Academic Grievance Committee, 1982 - 1983
Chair, Program and Curriculum, Arts & Sciences, 1981- 1982
Member, Program and Curriculum, Arts & Sciences, 1979 - 1983
Senator, Arts and Sciences Senate, 1977 - 1983
Member, Financial Aids Policy, 1981 - 1982
Member, University Organizations Committee, 1981
Chair, Elections Committee, A & S, 1979

B. Departmental

Chair of Department, 1983 - 1992
Member, Executive Committee, 1975 - 1977, 1980 - 1983
Chair and Member, Personnel and Selection Committee, 1975 - 1977, 1980 – 1983
Chair, Graduate Program Committee, 1984 - 1985,
Chair and Member, Course Curriculum Committees 1975 - 1983
Chair, Forensics Committees, 1974 - 1978
Director, Rainbow International Intercollegiate Speech Tournament, 1976, 1977, 1978
Coordinator, Fall Debate Institute, 1975 - 1978

C. Local Community

Member, Civic Forum on Public Schools, 1998 - 2001
Member, Board of Directors, Samaritan Counseling Center of Hawai‘i, 1990 – 1995
Coordinator and Presenter, Communication Skills Workshops:
State of Hawai‘i, Department of Education, 1981
State of Hawai‘i, Department of Public Health, 1984 - 1985
State of Hawaii, Department of Personnel Services, Clerical Workers, 1979, 1981
Government of American Samoa, 1980
County of Honolulu, Public Defenders Office, 1984

D. Speeches in Community

State of Hawai‘i Personnel Directors, 1980, 1985
Hawai‘i National Guard, State of Hawai‘i, 1984
U.S. Army, 1985
Commencement Address, St. Joseph’s High School, 1986
Chairman and Member, Hawaiian Islands Chapter of the Multiple Sclerosis Society, 1977 – 1983

E. Academic Community

APLU Awards Selection Committee, 2018, 2019
Associate Editor, Western Journal of Speech Communication, 1988 - 1995

V. AWARDS

State of Hawaii Manager of the Year, 2019
University of Hawaii Manager of the Year, 2019
Holen Award, NACADA, 2017
VI. PUBLICATIONS

A. Books


B. Articles


Thomas Bruneau, Ronald E. Cambra and Donald Klopf. "Interpersonal Needs of Guam College Students as Compared to those Elsewhere," *Communication* (October 1980), IX, 1, 204-210. Listed by the Educational Resources Information Center (ERIC).


C. Conference Presentations


D. Other reports and papers


Report on Academic Services Provided Student Athletes, and Non-Student Athletes: Implications and Recommendations for all Students at the University of Hawaii by Ronald E. Cambra, Jeanne Oka, Jennifer Matsuda, November, 2000

Presenter, The Mission of the next 75 years: College of Arts & Sciences September, 1995, presentation to UH Board of Regents
MEMORANDUM

TO: Randolph G. Moore
   Chairperson, Board of Regents

VIA: David Lassner
     President, University of Hawai‘i System

VIA: David Lassner
     Office of the Vice President for Academic Strategy, University of Hawai‘i System

VIA: Michael Bruno
     Provost, University of Hawai‘i at Mānoa

VIA: Laura Lyons
     Interim Vice Provost for Academic Excellence, University of Hawai‘i at Mānoa

VIA: Brian Taylor
     Dean, School of Ocean and Earth Science and Technology

FROM: Margaret Anne McManus
      Chairwoman, Department of Oceanography

SUBJECT: Request for Exception to the Regents Policy RP 5.219, Emeritus/Emerita Title, for Professor Edward A. Laws, Department of Oceanography, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa

SPECIFIC ACTION REQUESTED:

We respectfully request that the Board of Regents approve an exception to Regents Policy RP 5.219 Section IV. B. for Professor Edward A. Laws (Department of Oceanography, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa) to be awarded the title of emeritus.
RECOMMENDED EFFECTIVE DATE:

The recommended effective date is upon approval by the Board of Regents.

ADDITIONAL COST:

There are no additional costs associated with this request.

PURPOSE:

The purpose of this exception request is to seek approval of emeritus status for Professor Edward A. Laws in recognition of his contributions to the Department of Oceanography as a longtime faculty member, and for his continued dedication to the University of Hawai‘i at Mānoa.

BACKGROUND:

Pursuant to Regents Policy RP 5.219 Section IV. B., the President may recommend to the Board for consideration, individuals deserving of honor who do not meet the stated criteria. Professor Edward A. Laws was appointed as Full Professor in the Department of Oceanography on 1 July, 1984, and resigned from the University on 31 December, 2005. Although Professor Laws had an illustrious 31 year career at the University of Hawai‘i at Mānoa, he did not formally retire from the University, which is one of the stated criteria for emeritus status, and thus the need for an exception to appropriately bestow such an honor that we believe he has rightfully earned.

Professor Laws came to the University of Hawai‘i as an Assistant Professor in 1974, was promoted to Associate Professor in 1979, and in 1984 was promoted to Full Professor. During his tenure at the University, Professor Laws also served in administrative positions as Department Chair (1990-1993, 1999-2001, 2003-2004), and as the UH Mānoa Interim Vice Chancellor for Research and Graduate Education from 2001-2002.

Professor Laws’ scholarly contributions include outstanding achievement in research, education, and community service, the triad of academia. As noted in his curriculum vitae, Professor Laws has served on many high profile scientific boards and panels in his field, served as reviewer for many of the top research publications and agencies, and he has published over 200 books, journal articles, and technical reports.

During his association with UH Mānoa, Professor Laws was the PI/co-PI on various projects at the University totaling approximately $24 million. Not only is he a world-class researcher, Professor Laws also mentored numerous students, and chaired or served on
many graduate student committees during his tenure at the University while dedicating a large portion of his time to teaching undergraduate and graduate courses. For example, Professor Laws created several new courses from the ground up, including a popular undergraduate course in Aquatic Pollution that is still taught every year by current department faculty. He also wrote the course textbook by the same name, now in its 4th Edition (John Wiley & Sons, Inc.). In addition to his research and educational activities, Professor Laws has given freely of his time and expertise to help others, both within and outside of academia. Beginning in 1977, he was a volunteer tutor at the Hawaii State Prison/Oahu Community Correctional Center. In 1980, he received the Thomas Jefferson Award for outstanding community service, and twice (1982, 1983) received certificates of recognition for outstanding voluntary service. His leadership efforts were also instrumental in the creation of the Hawaii Ocean Time-series (HOT) research program in 1988 and the Center for Microbial Oceanography: Research and Education (C-MORE) in 2006, two programs that have had, and continue to have, major impacts on research and student training at UH Mānoa. In 2018, Professor Laws received the Chinese government’s Friendship Award, the highest recognition for “foreign experts who have made outstanding contributions to the country’s economic and social progress.”

Professor Laws has also received many other awards and honors including:

- William McCurdy Fellow, Duke University Marine Laboratory, 1994
- Best Paper Award, Organic Geochemistry Division, Geochemical Society, 1995
- Citation for Excellence in Refereeing for JGR-Oceans, 1999
- Citation for Excellence in Refereeing for Global Biogeochemical Cycles, 2001
- Citation for Excellence in Refereeing for JGR-Oceans, 2003
- Tyge Christensen Prize for best algal paper in Phycologia, 2007
- Co-vice chair, Gordon Research Conference on Oceans and Human Health, 2008
- Co-chair, Gordon Research Conference on Oceans and Human Health, 2010
- Honorary Professor, Qingdao Institute of Marine Geology, 2010
- Qingdao Award, Qingdao Municipal Government, 2012 and 2015
- Nanqiang Lecture, The Earth’s Changing Climate: Natural Cycles & Human Effects, Xiamen University, July 23, 2013
• Joseph and Richard Lipsey Excellence in Teaching Award, 2014
• MEL Visiting Fellow, Xiamen University, June 1 to August 30, 2019 and June 1 to August 30, 2020
• LSU Distinguished Faculty Award, 2020
• Tiger Athletic Foundation Undergraduate Teaching Award, 2020
• Keynote speaker, Aoshan Forum, Qingdao, China, 11 August, 2020

We believe that Professor Laws’ tremendous contributions to the University of Hawai‘i have earned him the honor of an emeritus title by the Board of Regents. The faculty in the Department of Oceanography support this request, and as do I.

ACTION RECOMMENDED:

It is recommended that the Board of Regents approve an exception to Regents Policy RP 5.219 Section IV. B. for Professor Edward A. Laws (Department of Oceanography, School of Ocean and Earth Science and Technology, University of Hawai‘i at Mānoa) to be awarded the title of emeritus.

Attachments

c: Executive Administrator and Secretary to the Board of Regents Kendra Oishi
Addendum

How will UH benefit from awarding Professor Edward A. Laws Emeritus status?

In the more than 50-year history of the Department of Oceanography, Professor Ed Laws has been one of our most distinguished scholars. He is the epitome of academic excellence across the triad of education/training, research, and community service. His breadth of knowledge of oceanography and his extensive academic experiences will benefit our undergraduate and graduate students, postdocs, and early career scientists as they develop their own careers. His wisdom and counsel will benefit all, including our established senior scientists. Ed maintains an active and well-funded research program that focuses on contemporary, relevant topics in the discipline. During his frequent visits to our campus, including extended summer periods when he is in residence as a visiting scholar at C-MORE, he shares new research results both formally through lectures and informally through his open-door policy. He continues to be a positive influence on the UHM 'ohana and an inspiration to students. For these and many other reasons presented in the Exception to the Regents Policy RP 5.219 for Emeritus appointments, we urge you to approve the request to award Professor Edward A. Laws the title of Emeritus Professor.
Edward A. Laws
Biographical Sketch

Education

B.A. in Chemistry, Harvard University, Cambridge, Mass., 1967, Magna Cum Laude
Ph.D. in Chemical Physics, Harvard University, Cambridge, Mass. 1972

Professional Experience

Research Assistant, Battelle Memorial Institute, Columbus, Ohio, summer, 1967
Instructor, Oceanography Department, Florida State University, 1971-1974
Assistant Professor, Oceanography Department, University of Hawaii, 1974-1979
Associate Professor, Oceanography Department, University of Hawaii, 1979 - 1984
Professor, Oceanography Department, University of Hawaii, 1984 – 2005
Dean, School of the Coast and Environment, Louisiana State University, 2005-2008
Professor, Department of Environmental Sciences, Louisiana State University, 2008 –

Professional Societies

American Geophysical Union
American Association for the Advancement of Science

Awards and Honors

Thomas Jefferson Award for Community Service, 1980
Certificate of Recognition for Outstanding Voluntary Service 1982, 1983
William McCurdy Fellow, Duke University Marine Laboratory, 1994
Best Paper Award, Organic Geochemistry Division, Geochemical Society, 1995
Citation for Excellence in Refereeing for JGR-Oceans, 1999
Citation for Excellence in Refereeing for Global Biogeochemical Cycles, 2001
Citation for Excellence in Refereeing for JGR-Oceans, 2003
Tyge Christensen Prize for best algal paper in Phycologia, 2007
Co-vice chair, Gordon Research Conference on Oceans and Human Health, 2008
Co-chair, Gordon Research Conference on Oceans and Human Health, 2010
Honorary Professor, Qingdao Institute of Marine Geology, 2010


Qingdao Award, Qingdao Municipal Government, 2012

Nanqiang Lecture, The Earth’s Changing Climate: Natural Cycles and Human Effects, Xiamen University, July 23, 2013

Joseph and Richard Lipsey Excellence in Teaching Award, 2014

Qingdao Award, Qingdao Municipal Government, 2015

Friendship Award, Peoples Republic of China, 2018

MEL Visiting Fellow, Xiamen University, June 1 to August 30, 2019

LSU Distinguished Faculty Award, 2020

Tiger Athletic Foundation Undergraduate Teaching Award, 2020

MEL Visiting Fellow, Xiamen University, June 1 to August 30, 2020

Keynote speaker, Aoshan Forum, Qingdao, China, 11 August, 2020

Invited talk, Distinguished Seminar Series, Hong Kong University of Science and Technology, 10 June, 2021

Scientific Boards and Panels
Limnology and Oceanography, editorial board, 1981–1984
Journal of the World Mariculture Society, Contributing Editor, 1988 –
National Science Foundation Global Ocean Flux panel, 1988 – 1989
National Science Foundation Biological Oceanography panel, 2000, 2003
IGBP Nonlinear Initiative steering committee, 2000
National Science Foundation Small Business Innovative Research panel, 2001
JGOFS Ocean Carbon Cycle Research Program Steering Committee, 2001
Gulf of Mexico Artificial Reef Council, 2005–2008
Forum on Public Policy, Editorial Advisory Board, 2010 –
Water, editorial board, 2021

Reviewer for:
Publications

(a) Peer Reviewed


(b) Books, Chapters in Books, and Reports


(c) Papers Presented at Symposia


International Conference on Tropical Living Aquatic Resources Management.
Serdand, Selangor, Malaysia. August 1-6, 1983.


58. Nanqiang Lecture, The Earth’s Changing Climate: Natural Cycles and Human Effects, Xiamen University, 2013


Research Activities and Grants

Florida State University, COFRS - $1,800. Detection of marine environmental trace element pollutants by X-ray fluorescence. (PI). 7/72-7/73.

Gulf Universities Research Consortium - $10,000. Oil platform fouling communities. (PI). 7/72-7/73.


National Science Foundation - $7,525. Request for research equipment support: a photomultiplier assembly. (co-PI). 11/78.


Department of Energy Institutional Grant - $12,000. Technical support for algal production raceway project. (PI). 5/81-4/82.


State of Hawaii Aquaculture Development Program - $27,000. A study of benthic and water column microbial activities in Hawaiian aquaculture ponds and the relationship of these activities with pond production. (PI). 1/1/84-12/31/84.

State of Hawaii - $10,472. Research, development, and demonstration of algal production raceway systems for the production of hydrocarbon resources. (PI). 7/1/83-6/30/84.


Hawaii Natural Energy Institute - $18,842. Chemicals and energy from macroalgae. (PI). 9/1/85-6/30/86.


Pacific International Center for High Technology Research - $15,000. The feasibility of growing *Gracilaria* in OTEC effluent as a source of methane, agar, and as a biological filter. (PI). 8/16/87-6/30/88.

National Science Foundation - $60,000. The effects of mesoscale eddies on phytoplankton community structure, total production, and the f-ratio in open-ocean waters. (PI). 4/1/88-4/30/90.


National Science Foundation - $309,921. Chemostat calibration of Southern Ocean diatom δ¹⁸O and δ¹³C variations for paleoceanographic reconstructions. (co-PI). 1/1/96-12/31/98.

National Science Foundation - $450,000. Controls on the isotopic compositions of individual compounds in photosynthetic autotrophs. (co-PI). 9/1/96-8/31/99.


National Science Foundation - $196,068. An f-ratio model for pelagic ecosystems. 1/1/98-12/31/01.


State of Hawaii Department of Health - $95,000. Maui and Molokai TMDL. 10/1/99-9/30/01.

National Science Foundation - $392,128. Controls on carbon isotopic fractionation in Emiliania huxleyi. (co-PI). 1/1/01-12/31/03.

National Science Foundation - $200,063. Development of a coupled global circulation/adaptive food web model to explain carbon cycling in the ocean. 06/15/01-05/31/04.


National Science Foundation - $156,825. Hawaii EPSCoR Planning 2002. (co-PI). 04/15/02-04/14/03.

National Science Foundation - $2,003,081. Hawaii Kumu-Ola: Source of Knowledge Program. 08/01/02-07/31/07.

National Oceanic and Atmospheric Administration - $9,998. Remediation of Aquaculture Water. 07/01/02-06/30/04.

National Institute of Environmental Health Sciences - $1,458,089. Pacific Research Center for Marine Biomedicine. 02/16/04 – 12/31/07.

National Science Foundation - $2,908,000. Pacific Research Center for Marine Biomedicine. 05/01/04 – 04/30/09.

National Science Foundation - $312,596. An Adaptive Food Web Model for the Epipelagic and Mesopelagic. 08/15/04 – 07/31/08

Department of the Interior, National Park Service - $50,500. Assess Nutrient Sources, Fluxes, and Water Quality of Ponds. 05/01/04 – 12/31/06

National Science Foundation - $49,946. Pacific Research Center for Marine Biomedicine. 07/19/04 – 04/30/05
**National Science Foundation - $199,937.** The Impact of Hurricane Katrina on the Lake Pontchartrain Ecosystem: Geochemistry, Microbiology, and Potential Human Health Effects. (co-PI). 09/30/05 – 09/20/06

**National Science Foundation - $239,098.** Collaborative Research: A Critical Examination of the Relationship Between Marine Phytoplankton Growth Rates and Phosphate Concentrations: Monod or Not. 03/15/07 – 02/29/12


**National Science Foundation — $25,000.** 2010 Oceans and Human Health GRC-Conference and Seminar. 6/30/09 – 6/29/10

**Louisiana Board of Regents — $136,000.** Recruitment of Superior Graduate Students in Earth, Ocean and Environmental Sciences (co-PI). 8/1/07 – 7/31/12.


**National Science Foundation — $150,000.** RAPID on Gulf Oil Spill: Phytoplankton and environmental stressors as determinants of Vibrio ecology (co-PI). 7/1/10 – 6/30/12.

**BP Exploration and Production, Inc. — $77,121.** Physiological Effects of Deepwater Horizon Oil on Phytoplankton and Microbial Communities from the Coastal/nearshore Waters of Louisiana (PI). 4/6/11– 12/31/12.


**National Science Foundation — $43,655.** Advancing a Long Term Coastal-Ecosystem Education, Research and Management Initiative in Honduras and Neighboring Countries. (co-PI). 8/1/12 – 7/31/13.

**National Science Foundation — $25,000.** 2012 Oceans and Human Health GRC-Conference and Seminar. 6/30/11 – 6/29/12.
Teaching Activities

(1) Teaching assistant in:

- Natural Sciences 3, Harvard University, Introductory General Chemistry
- Chemistry 60, Harvard University, Physical Chemistry
- Chemistry 12, Harvard University, Quantum and Statistical Mechanics
- Summer Studies, Harvard University, Introductory Quantum Mechanics
- Chemistry 148, Harvard University, Molecular Structure and Group Theory

(2) Instructor in:

- ENV 225, Duke University, Coastal Ecotoxicology and Pollution
- Ocean 301, Florida State University, Introductory Oceanography
- Ocean 201, University of Hawaii, Science of the Sea
- Ocean 320, University of Hawaii, Aquatic Pollution
- Ocean 330, University of Hawaii, Living Resources of the Sea
- Ocean 450, University of Hawaii, Aquaculture Production
- OCN 528, Florida State University, Numerical Methods in Biological Oceanography
- OCN 545, Florida State University, Chemical Limnology
OCN 548, Florida State University, Salt Marsh Ecology

OCN 621, University of Hawaii, Biological Oceanography

OCN 626, University of Hawaii, Plankton Ecology

OCN 636, University of Hawaii, Phytoplankton Ecology

OCN 650, University of Hawaii, Mathematical Techniques in Oceanography

HNRS 3035, Louisiana State University, Aquatic Pollution

HNRS 2000, Louisiana State University, Critical Analysis: Human Responses to Disaster and Disease

OCS 4001, Louisiana State University, Living Resources of the Sea

ENVS 1126, Louisiana State University, Introduction to Environmental Sciences

ENVS 7700, Louisiana State University, Integrated Environmental Issues

ENVS 3102, Louisiana State University, Mathematical Methods in Science

ENVS 4035, Louisiana State University, Aquatic Pollution

OCS 3103, Louisiana State University, Global Environmental Cycles

HNRS 1036, Louisiana State University, Climate Change

**Graduate Student Committees Chaired**


Hunter, B.L. 1979. ATP and chlorophyll a as estimators of phytoplankton metabolic activity and carbon biomass. M.S.


Chalup, M.S. 1987. Evaluation of certain aspects of recent models of phytoplankton growth and adaptation. M.S.

Wei, S.L. 1987. Spatial and temporal variation of water column measurements in aquaculture ponds. M.S.


Jones, D.R. 1989. Adenosine triphosphate (ATP) and deoxyribonucleic acid (DNA) content of marine microalgae and bacteria with applications for measuring marine microbial growth rates and production. Ph.D.


Schulman, D. 1996. The use of the stable nitrogen isotopic composition of suspended particulate matter as a tracer to distinguish the effects of sewage and stream runoff on Mamala Bay. M.S.


Roth, L. 2005. Design and comparison of nitrification performances between five “low-tech” fixed film biological reactors to treat aquaculture wastewater on Coconut Island. M.S.

Yuknis, N. 2012. Soil accretion and organic carbon accumulation in the tidal salt marshs of the Liaohe Delta, China. M.S.

Norris, B. 2012. Composition and Physiological Characteristics of the University Lake Ecosystem Phytoplankton Community: Impacts of Seasonal and Episodic Events. M.S.


Li, Jie. 2014. Effects of Deepwater Horizon Oil on the growth rates and pigment composition of phytoplankton isolated from Grand Isle, LA. M.S.

Johnson, Tiffany. 2015. The effects of tropical storms and hurricanes on phytoplankton and nutrient concentrations in wetland-estuary transition zones along the Gulf coast. M.S.

Reyes-Avila, A. 2018. Assessment of mercury content in Louisiana’s freshwater fish and its association to Se concentrations. M.S.


**Other Graduate Student Committees Served On**

Nicol, J. 1977, M.S.
Terry, K. 1978, Ph.D.
Kimmerer, W. 1980, Ph.D.
Atkinson, M. 1981, Ph.D.
Johnson, L. 1982, M.S.
Maynard, S. 1982, Ph.D.
Burns, D. 1984, M.S.
Craven, D. 1984, M.S.
Orrett, K. 1984, M.S.
Winn, C. 1984, Ph.D.
Andrews, C. 1984, M.S.
Morrissey, J. 1985, Ph.D.
Ridge-Cooney, V. 1987, Ph.D.
Pietraszek, J. 1992, M.S.
Monger, B. 1993, Ph.D.
Smith, A. 1994, M.S.
Zhou, Y. 1994, MS.
Gould, B. 1995, M.S.
Hanson, K. 1997, M.S.
Liu, H. 1997, Ph.D.
Thompson-Buldis, 1997, M.S.
Selph, K., 1999, Ph.D.
Parnell, P., 2000, Ph.D.
Brown, S. 2001, Ph.D.
Shackelford, R. 2002, M.S.
Carrillo, C. 2002, Ph.D.
Liu, X. 2002, M.S.
Messer, A. 2002, M.S.
Demopoulos, A. 2004 Ph.D.
Plancherel, Y. 2004, M.S.
Lam, P. 2004, Ph.D.
Fagan, F. 2005, M.S.
Garcia, A. C. 2010, M.S.
Li, C. 2013, M.S.
Molina, V. 2013, Ph.D.
Stewart, F., 2014, M.S.
Navarre, L., 2014, M.S.
Zhang, R. 2017, Ph.D.
Joshi, I., 2017, Ph.D.
Soysal, A., 2017, M.S.
Hollis, L., 2018, Ph.D.
Abolfazli, E. 2019, M.S.
Hood, D. 2019, Ph.D.
Prasun, S. 2020, Ph.D.
Liu, K. 2020, Ph.D. (External Examiner, Hong Kong University of Science and Technology)
University and Public Service

1972  Florida State University, Oceanography Department Admissions Committee

1973  Florida State University, Oceanography Department Admissions Committee

1974  University of Hawaii Oceanography Department Seminar Committee

1975  University of Hawaii Oceanography Department Library Committee; Faculty Search Committee Chairman

1977  University of Hawaii Oceanography Department Library Committee; Faculty Search Committee Chairman; Tutor at Hawaii State Prison

1978  University of Hawaii Oceanography Department Library Committee; Tutor at Hawaii State Prison

1979  University of Hawaii Oceanography Department Library Committee; University of Hawaii Oceanography Department Promotion and Tenure Committee; Tutor at Hawaii State Prison

1980  University of Hawaii Oceanography Department Library Committee; Tutor at Hawaii State Prison

1981  University of Hawaii Oceanography Department Library Committee; Tutor at Hawaii State Prison; University of Hawaii Oceanography Department Promotion and Tenure Committee

1982  Tutor at Oahu Community Correctional Center; Advisor for Hawaii Academy of Science high school contest for papers on marine affairs; Participant in Seventh Annual Hawaiian Academy of Science Symposium on Marine Affairs; University of Hawaii Faculty Senate; Department Personnel Committee

1983  Tutor at Oahu Community Correctional Center; College of Arts and Sciences Program and Curriculum Committee; Oceanography Department Associate Chairman; Judge for Library Prize for Pacific Islands Area Research; Coordinator for Sea Grant open house during National Education Week

1984  Tutor at Oahu Community Correctional Center; College of Arts and Sciences Program and Curriculum Committee; Oceanography Department Associate Chairman; Reviewer of Seniors Honors Theses; Oceanography Department Space Committee; Oceanography Department Computer Committee; Judge for Library
Prize for Pacific Islands Area Research; Hawaii Biological Science Advisory Group; Organizer of departmental poster session for Ocean Day 1984

1985 Oceanography Department Associate Chairman; Oceanography Department Space Committee; Tutor at Oahu Community Correctional Center; Teaching Evaluation Committee

1986 Oceanography Department Associate Chairman; Tutor at Oahu Community Correctional Center; Oceanography Department Space Committee; Teaching Evaluation Committee; Tenure and Promotion Review Committee.

1987 Tutor at Oahu Community Correctional Center; Oceanography Department Associate Chairman; Graduate Council; Oceanography Department Space Committee

1988 Tutor at Oahu Community Correctional Center; Oceanography Department Associate Chairman; Graduate Council; Oceanography Department Space Committee; Faculty Search Committee; Chairman, Departmental Personnel Committee; Biology Program Review Committee

1989 Tutor at Oahu Community Correctional Center; Oceanography Department Associate Chairman; Graduate Council; Oceanography Department Space Committee; Oceanography Department Personnel Committee

1990 Tutor at Oahu Community Correctional Center; Graduate Council; Oceanography Department Personnel Committee; Oceanography Department Chairman; Air Force ROTC Program Review Committee

1991 Tutor at Oahu Community Correctional Center; Oceanography Department Chairman; Into the Streets Program Advisory Committee; Career Day speaker at Wahiawa Intermediate and Molokai, Kauai, and Kalaheo High Schools

1992 Tutor at Oahu Community Correctional Center; Oceanography Department Chairperson; Tenure and Promotion Review Committee; Into the Streets Program Advisory Committee

1993 Oceanography Chairperson; Tenure and Promotion Review Committee

1994 Chair, Oceanography Department Personnel Committee; Chair, Promotion and Tenure Review Committee

1995 Chair, Oceanography Department Personnel Committee; Chair, Promotion and Tenure Review Committee; Center for Adults Returning to Education spring

1996 Assistant to Senior Vice President Dean Smith; Oceanography Department Personnel Committee; Kailua Bay Advisory Council; Roosevelt High School Science Learning Center Advisory Committee. Roosevelt High School Science Fair judge, February 7. Nanaikapono Elementary School Career Day speaker, February 27. Our Lady of Sorrows fourth grade class speaker on water pollution, March 25. State Science Fair judge, April 2. Guest speaker on oceanography, Linapuni Elementary School, December 3; volunteer oceanography instructor, Waiawa Correctional Facility

1997 Assistant to Senior Vice President Dean Smith; Science Fair judge, February 12; Kailua Bay Advisory Council; volunteer oceanography instructor, Waiawa Correctional Facility; chair, HIMB director search committee, Science mentor to three high school students from Assets School

1998 Assistant to Senior Vice President Dean Smith; Kailua Bay Advisory Council; volunteer oceanography instructor, Waiawa Correctional Facility; science mentor to three high school students from Assets School; guest lecture on water pollution, Marine Option Program, Leeward Community College, February 3; Honolulu Rotary Club guest speaker on water pollution, February 6. UH Athletics advisory board.

1999 Kailua Bay Advisory Council; volunteer mathematics and oceanography instructor, Waiawa Correctional Facility; Oceanography Department Chairperson; Hawaii Coral Reef Initiative Scientific Advisory Council; SOEST Young Investigator selection committee. Manoa Faculty Senate. UH Athletics advisory board.

2000 Volunteer mathematics and oceanography instructor, Waiawa Correctional Facility; Oceanography Department Chairperson; Manoa Faculty Senate. Career day speaker, Hokulani Elementary School, February 17. CTAHR dean search committee. Chair, senate committee on athletics. UH Athletics advisory board. St. Pius X parish council.

2001 Volunteer mathematics and oceanography instructor, Waiawa Correctional Facility; Oceanography Department Chairperson; Manoa Faculty Senate. Chair, senate committee on athletics. Athletics advisory board. Interim Vice Chancellor for Research and Graduate Education. St. Pius X parish council.


2005 Review panel for NSF Major Research Instrumentation program. Plenary speaker, Society of Environmental Toxicology and Chemistry, Baltimore, MD, November 16. Lector, Christ the King church.


2007 GED mathematics tutor, Angola Prison (Louisiana State Penitentiary). Christ the King pastoral council. Lector and Eucharistic minister, Christ the King church. Invited talk, "Why is it so hard to protect the environment?", Harvard University, October 5. Invited talk, "Climate Change, Oceans, and Human Health", University of Southern Mississippi, November 30.


2009 GED mathematics tutor, Angola Prison (Louisiana State Penitentiary). Eucharistic minister and lector, Christ the King church. LSU Faculty Senate. SC&E liaison to LSU Office of International Programs Development and Outreach team. Dean’s representative,
Perry Iverson, general examination (mathematics – graph theory: graph minors, graphs on surfaces)

2010  GED mathematics tutor, Angola Prison (Louisiana State Penitentiary). Eucharistic minister and lector, Christ the King church. LSU Faculty Senate. SC&E liaison to LSU Office of International Programs Development and Outreach team. Chair, Department of Environmental Sciences.


2012  GED mathematics tutor, Angola Prison (Louisiana State Penitentiary). Eucharistic minister and lector, Christ the King church. Department of Environmental Sciences Courses and Curriculum Committee.


2014  GED tutor, Angola Prison (Louisiana State Penitentiary). Department of Environmental Sciences Courses and Curriculum Committee. Chair, Plant Pathology and Crop Physiology program review committee. Honors College Advisory Board. Judge, Sixth Annual Graduate Student Seminar Competition, March 31. Dean’s Representative on general exam of Ishan Joshi, October 8. DES promotion and tenure review committee. Capital Area United Way coordinator for the School of the Coast & Environment.

2015  Honors College Advisory Board. Dean’s Representative on doctoral examination of Erin Oberhaus, October 29. DES promotion and tenure review committee. SC&E prestigious awards committee. EBVS 1126/1127 committee. DES professional masters committee. Capital Area United Way coordinator for the School of the Coast & Environment.

2016  Honors College Advisory Board. SC&E prestigious awards committee. DES professional masters committee. Dean’s Representative on doctoral examination of Lauris Hollis, November 18.

2017  Honors College Advisory Board. SC&E prestigious awards committee. DES professional masters committee. Dean’s Representative on doctoral defense of Erin
Oberhaus, April 5. Dean’s Representative on doctoral general exam of Don Hood, May 4.

2018 Dean’s Representative on doctoral committee of Lauris Hollis, February 23. Honors College Advisory Board. DES professional masters committee. DES promotion and tenure committee. DES faculty development committee. DES awards committee.

2019 Dean’s Representative on doctoral committee of Don Hood, October 15. Dean’s representative on doctoral committee of Samir Prasum, April 29. Chair, Department of Environmental Sciences awards committee.

2020 Chair, Department of Environmental Sciences awards committee. Deans Representative on doctoral committee of Samir Prasun, May 8. External examiner on Ph.D. committee of Kailin Liu, Hong Kong University of Science and Technology (August). Dean’s Representative on general examination committee of doctoral candidate Vivek Pokhrel (Entymology), November 20

2021 Chair, Department of Environmental Sciences awards committee. External reviewer, College of Medicine, University of Sharjah. Judge, CC&E Graduate Student Symposium (April 9). Mentoring committee for Crystal Johnson.
TO: Randolph Moore  
   Chairperson, Board of Regents

VIA: David Lassner  
     President

VIA: David Lassner  
     Office of the Vice President for Academic Strategy

VIA: Michael Bruno  
     Provost

VIA: Laura Lyons  
     Interim Vice Provost for Academic Excellence

FROM: Aloysius Helminck  
      Dean, College of Natural Sciences

SUBJECT: REQUEST TO AWARD EMERITUS TITLE TO ASSOCIATE PROFESSOR ANDREW TAYLOR IN THE COLLEGE OF NATURAL SCIENCES FOR THE DEPARTMENT OF LIFE SCIENCES

SPECIFIC ACTION REQUESTED:
It is requested that Associate Professor Andrew Taylor be awarded the emeritus title and eligibility of five (5) or more years of full-time service at rank 5 is waived.

RECOMMENDED EFFECTIVE DATE:
Upon Approval.

ADDITIONAL COST:
There is no additional cost associated with this request.

PURPOSE:
Appointment as an Emeritus Professor allows a retired faculty member to remain actively engaged in the professional life of the department by taking part in seminars, supervise and work with students, organize professional meetings and pursue research and other scholarly projects.
BACKGROUND:
In accordance with the Board of Regents Policy RP 5.219 which states that the emeritus/emerita title is an honor bestowed upon retiring or retired faculty members in recognition of dedicated and honorable academic service rendered to the University, it is requested that Associate Professor Andrew Taylor be bestowed this honor.

Associate Professor Andrew Taylor retired on August 31, 2019 after serving the Department of Biology in the College of Natural Sciences at the University of Hawai‘i at Manoa for 29 years.

Associate Professor Taylor served the department of Biology as graduate chair from 1996 to 1999, associate chair in 2014 and 2015, and as chairman from 2015 to 2017. He was the college interim associate dean from 2017 to 2019 and also on multiple college and / or campus-wide committees.

Associate Professor Taylor authored 35 peer-reviewed publications which received over 2500 citations. He also received multiple federal (NSF and USDA) research and instructional grants including an ongoing $1.1 million NSF-funded project.

During his tenure at the University of Hawaii at Manoa, Associate Professor Taylor served on over 40 thesis and dissertation committees in three colleges. Besides his work for the University of Hawaii at Manoa, Associate Professor Taylor also helped the community by organizing SAS workshops on mixed models and served as a state and local Science Fair judge and on the Advisory Board at Mililani High School.

Based on the positive and valuable contributions of Associate Professor Taylor to the Department of Life Sciences in the College of Natural Sciences, the Professor Emeritus title would be an appropriate recognition for Associate Professor Taylor’s commitment and service to the University of Hawai‘i at Manoa.

Dr. Taylor is an ecologist and a valuable resource for statistical analyses. As a faculty member, he regularly met with students (on their committee or not) to help them with applying appropriate statistics to their questions. He currently is involved as a consultant doing similar work for agencies. His background and ties to current faculty and their students would continue in this same direction.

ACTION RECOMMENDED:
It is recommended that Associate Professor Andrew Taylor be awarded the emeritus title and eligibility of five (5) or more years of full-time service at rank 5 is waived.
ANDREW D. TAYLOR
CURRICULUM VITAE

Education and Training

1984      Ph.D. in Zoology (Mathematics minor), Duke University.
1985-86   NATO Postdoctoral Fellow, Pure and Applied Biology, Imperial College, UK.
1986-88   University Postdoctoral Fellow, Zoology, Ohio State University.

Professional Positions Held

1988      Visiting Assistant Professor, Mtn. Lake Biological Station, U. Virginia.
1991-2019 University of Hawai‘i at Mānoa
          Department of Biology (formerly Zoology)
          1991-96    Assistant Professor
          1996-      Associate Professor
          College of Natural Sciences
          2017-19    Interim Associate Dean
1998, 1999 Visiting Associate Professor, Mtn. Lake Biological Station, U. Virginia.

Publications  [35 publications, 2507 citations]
[numbers in brackets are citation counts as of 4 November 2019 from Google Scholar]


A. D. Taylor. “Estimation of the binomial parameter n when it is small.” [intended for The American Statistician]

Taylor, A. D. “Mark-recapture estimation of small population sizes.” [intended for Biometrics]

Taylor, A. D. “Clustering in pollination webs.” [intended for Ecology]


Extramural Grants Received


Jones, V. P., R. K. Nishimoto (PIs), and A. D. Taylor (Collaborator) “Sustainable management of Nezara viridula with biological and cultural controls,” U.S.D.A., $110,000, 1994-97.


A. D. Taylor 4 November 2019


Courses Taught

at the University of Hawai‘i:
Biometry (ZOOL 631)
Advanced Biometry (Zool 632)
Population Biology (BOT/ZOOL 652)
Topics in Biometry (ZOOL 710)
Zoology Seminars (ZOOL 490)
Mathematical Biology Seminar (BIOL/MATH 490)
Graduate Seminars (Zool. 691)
guest lectures in MATH 304 and 305 (Mathematical Modeling I and II)

at Mt. Lake Biological Station:
Biometry, Population Ecology

Service

Department
Graduate Chair (1996-99)
Associate Chair (2014-15)
Chair (2015-17)
service on or chair of: all standing committees, multiple search committees
Tester Symposium and departmental seminar organizer (multiple times)

College
Interim Associate Dean (2017-19)
Natural Sciences Program and Curriculum Committee (twice)
liaison with Math department for development of Applied Calculus courses

Campus
Co-director, Undergraduate Certificate in Mathematical Biology
U.H. Graduate Council (two terms)
U.H. Manoa Council on Program Reviews
MIX Advisory Committee
ad hoc committee on articulation of “Symbolic Reasoning” Foundations requirement
Office of Mauna Kea Management’s Scientific Advisory Committee on wekiu bug
Committees of other departments or programs:
EECB: Graduate Education, Curriculum, Faculty Admissions and Retention
Botany: population biology search
Hawai‘i Institute of Marine Biology: quantitative marine ecology search

A. D. Taylor 4 November 2019
Community
Hawaii Chapter of ASA; helped organize SAS workshop on mixed models.
state and local Science Fair judge; Science Advisory Board at Mililani High School.
statistical consulting for colleagues in several federal and state agencies.

Professional
Board of Editors, Ecology and Ecological Monographs (1995-99)
Manuscript reviewer for many journals.
Proposal reviewer: National Science Foundation, U.S.D.A. Competitive Grants Program, NERC (Britain), National Geographic Society, etc.
January 6, 2022

MEMORANDUM

TO: Randolph G. Moore  
Chairperson, Board of Regents  
University of Hawai‘i

VIA: David Lassner  
President  
University of Hawai‘i

FROM: Tim Dolan  
Chief Executive Officer  
University of Hawai‘i Foundation

Denise Eby Konan  
Dean  
University of Hawai‘i at Mānoa College of Social Sciences

SUBJECT: REQUEST FOR ACTION TO APPROVE THE ESTABLISHMENT AND NAMING OF THE UHERO – HMSA DISTINGUISHED ENDOwed PROFESSORSHIP IN HEALTH ECONOMICS AT THE UNIVERSITY OF HAWAI‘I ECONOMIC RESEARCH ORGANIZATION WITHIN THE UNIVERSITY OF HAWAI‘I AT MĀNOA COLLEGE OF SOCIAL SCIENCES

SPECIFIC ACTION REQUESTED:

It is requested that the University of Hawai‘i Board of Regents approve the establishment and naming of the UHERO – HMSA Distinguished Endowed Professorship in Health Economics (the “Professorship”) at the University of Hawai‘i Economic Research Organization (UHERO), University of Hawai‘i at Mānoa College of Social Sciences in recognition of a private donation.

RECOMMENDED EFFECTIVE DATE:

Request that this be effective upon Board of Regents approval.
ADDITIONAL COST:

No additional costs are associated with this request.

PURPOSE:

The Professorship will be funded by a gift of $1,000,000 from the Hawai'i Medical Service Association (HMSA) (the “Donor”), which will establish an endowed fund at the University of Hawai'i Foundation. The purpose of the professorship and fund will be to recruit and retain faculty of the highest caliber in the area of health economics and to support UHERO research and activities in the area of health economics.

Funds may be used for, but not be limited to:

1. A salary or supplement for the recipient; and/or
2. Any combination of costs as follows to support the recipient’s research goals.
   The recipient will consider input from the UHERO Executive Director in determining priorities and activities for research.
   a. Research support as the recipient sees fit, including but not limited to, delivery of research and papers at conferences, manuscript preparation, library and equipment acquisition and other requirements of an active scholar.
   b. Travel by the recipient to other universities and research institutes, government agencies, and industry visits.
   c. Graduate student research assistants.
   d. Graduate and undergraduate student internships and travel.
3. Research and activities in the area of health economics, at the discretion of the UHERO Executive Director.

The Dean of the College of Social Sciences (the “Dean”) will appoint a committee led by the UHERO Executive Director to recommend candidates for the Professorship. The committee shall include the Director of the Social Science Research Institute and the Chair of the Department of Economics. The Dean will make the final decision in awarding the Professorship after conferring with the committee.

The program and the recipient of the Professorship shall be reviewed for reassignment either to the current holder or for assignment to another individual at three (3) year intervals.

The recipient of the Professorship shall submit an annual budget to the Dean for approval. The recipient is also required to submit an annual report on the previous year’s related activities to the Dean.
BACKGROUND:

UHERO is the leading source for independent economic research, forecasts, and policy analysis in Hawai‘i. Over its more than twenty year history, UHERO research has informed decision making on some of the most important issues facing our community, including the economic outlook for key industries, challenges to our environment, and policies affecting water, housing, energy, and increasingly in the area of health policy.

The COVID-19 pandemic has highlighted the importance of UHERO’s research, policy analysis and community engagement, as well as the intricate connection between health and the economy. Partnerships and support from organizations such as HMSA are central to UHERO’s mission to share data, research and insights that will improve health policy and ultimately the lives of Hawai‘i’s citizens.

In accordance with Board of Regents’ policy governing the Delegation of Personnel Actions, Section 9.218, the College of Social Sciences requests Board of Regents’ approval for the philanthropic naming of the UHERO – HMSA Distinguished Endowed Professorship in Health Economics in recognition of the Donor’s gift commitment of $1,000,000.

The Hawai‘i Medical Service Association (HMSA) is the most experienced health plan in the state, covering more than half of Hawai‘i’s population. HMSA has been serving our local community since 1938 and is an independent licensee of the Blue Cross and Blue Shield Association.

ACTION RECOMMENDED:

It is recommended that the University of Hawai‘i Board of Regents approve the establishment and naming of the UHERO – HMSA Distinguished Endowed Professorship in Health Economics at the University of Hawai‘i Economic Research Organization, University of Hawai‘i at Mānoa College of Social Sciences, in recognition of this gift commitment.

c: Kendra Oishi, Executive Administrator and Secretary to the BOR
2022 University of Hawaiʻi Legislative Update

For Presentation

UH Board of Regents
January 20, 2022
2022 Legislative Session

• 2022 Supplemental Budget (Operating)
• 2022 Supplemental Budget (CIP)
• Informational Briefing
• Legislative Calendar
## 2022 Session – Supplemental Budget (Operating)

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<th>Description</th>
<th>Board FY23</th>
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<tr>
<td>General Fund Restoration - Mānoa</td>
<td>$30,000,000</td>
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<td>Nursing Clinical Instructors - Mānoa, Hilo, CCs</td>
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<td>Residency Program Expansion - JABSOM</td>
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Governor’s Add-ons

- $1.7 million for Nursing Clinical Instructors to increase nursing education capacity in response to ongoing nursing shortage.
- $2.0 million for JABSOM to expand the residency program to the neighbor islands to help address the physician shortage in Hawai‘i.
- $557,000 for Mānoa College of Education for Teacher Workforce Education to help address the ongoing teacher shortage.
- $1.57 million for Mānoa and Hilo for faculty and internships in the IT/Cybersecurity field.
- $380,000 for Mānoa for the renovation of Ernst Lab for film production use.
- $190,000 for Hilo for Aviation program faculty.
- $21.7 million for repairs, maintenance and equipment.
Other Items

- Transfer six (6) positions associated with Nā Pua No‘eau from UOH900 (Systemwide Support) to the various campuses.
- Transfer one (1) position for Maunakea stewardship.
- Trade-off ceiling from Community Colleges Special Fund to Community Colleges Revolving Fund ($25 million in non-General Fund ceiling).
- Ten (10) temporary position counts for SBDC.
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<td><strong>Total</strong></td>
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<td>$ 89,000,000</td>
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January 7 – Senate WAM/HRE Informational Briefing on UH Football
January 11 – House FIN Budget Briefing
January 18 – Senate WAM/HRE Budget Briefing
January 19 – Opening Day of the 2022 Legislative Session
January 24 – Governor’s State-of-the-State Address
January 26 – Bill Introduction Cutoff
Conclusion
The purpose of this report is to share the findings and recommendations of the Maunakea Plan Review Permitted Interaction Group (“Task Group”) with the full Board of Regents (“Board”) and to receive additional public input regarding the Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Nā Leo (Listen to the Voices), December 10, 2021 (“Master Plan”).

This report is the first of two reports under the scope of this Task Group. This first report covers the Master Plan. The Task Group will provide the second report at a future date that will cover findings and recommendations regarding updates (in progress) to the Mauna Kea Comprehensive Management Plan UH Management Areas, adopted by the Board of Land and Natural Resources (“BLNR”) on April 9, 2009 (“CMP”).

Deliberation and decision making regarding this first report will take place during a subsequent meeting, planned for January 2022, pursuant to the statute on permitted interactions under the Sunshine Law, Section 92-2.5(b), Hawai‘i Revised Statutes (“HRS”).

I. PURPOSE AND SUMMARY OF TASK GROUP MEETINGS

A. On May 20, 2021, the Board met to consider creating a permitted interaction group to review and investigate proposed changes to the Maunakea Master Plan and CMP; seek input from community stakeholders; and make related findings and recommendations to the Board by January 2022.¹

B. The Task Group included the following Regents:

1. Ben Kudo, Oahu Island Regent and then-Board Chair
2. Alapaki Nahale-a, Board Vice-Chair, Hawai‘i Island Regent, and Regent-member of the Mauna Kea Management Board (“MKMB”)
3. Eugene Bal III, Maui Island Regent
4. Wayne Higaki, Hawai‘i Island Regent, and Regent-member of MKMB
5. Ernest Wilson Jr., Maui Island Regent

Regent Nahale-a served as Chair of the Task Group.

President David Lassner, Vice President for Legal Affairs and University General Counsel Carrie Okinaga, Chancellor of the University of Hawai‘i (“University”) at Hilo Bonnie Irwin, Executive Director of Maunakea Stewardship Greg Chun, and Associate General Counsel Jesse Souki

¹ Minutes of May 20, 2021 Board of Regents Meeting.
participated in the Task Group process. Kendra Oishi, Executive Administrator and Secretary of the Board, provided administrative support to the Task Group.

Guest participants included: Jim Hayes, Planning Solutions, Inc.; and Doug Simons, Institute for Astronomy.


The Task Group met to, among other things:

● Receive updates on the progress of a draft Master Plan, including the process used to develop the plan and to conduct public outreach.
● Review the draft Master Plan and foreword, ask questions, and provide additional feedback.
● Extensively review and discuss stakeholder comments and community engagement, progress and status of the Master Plan and CMP updates, and how to further build community engagement capacity and capabilities.

II. FINDINGS

A. Master Plan

The Task Group has been kept apprised of the progress of the Master Plan and community outreach relating thereto, has reviewed preliminary drafts and provided comments thereto, and is supportive of the final draft accompanying this report.

The University administration, based on its meetings with the Task Group, made substantive changes to initial drafts of the plan. A copy of the Master Plan that reflects those changes is attached to this report.

To summarize, the Master Plan, Volume I, is divided into three parts:

● Part 1: Foundations
● Part 2: Physical Plan
● Part 3: Implementation

Several appendices are attached:

● Appendix A. Summary of Draft Master Plan Outreach, Input, and Related Plan Revisions
● Appendix B. Summary of Pre-Draft Outreach and Subsequent Master Plan Adjustments
● Appendix D. Board of Regents Resolutions Related to Maunakea
• Appendix E. Process to Establish which Astronomy Facilities may Continue after 2033
• Appendix F. Astronomy Site Descriptions and Depictions

Volume II is a compendium of outreach materials, lists of recipients, and comments received.

The Master Plan updates and replaces the *Mauna Kea Science Reserve Master Plan*, adopted by the Board on June 16, 2000. The Master Plan was developed contemporaneously with the CMP update to ensure consistency among the plans. As with its previous versions, the Master Plan is intended to work in concert with, not replace or override, the CMP, and the CMP will remain the guiding document concerning day-to-day management of the cultural landscape and natural resources on Maunakea. At the same time, the Master Plan addresses land uses (as defined by BLNR’s conservation district rules) that the University anticipates will be discontinued, continued, or established.\(^2\) The relationship between the Master Plan and CMP is discussed in Section 2.4 Relationship Between this Plan and Other Plans.

The purpose of the Master Plan is to guide the University’s consideration and prioritization of proposed land uses within the UH Maunakea Lands\(^3\) in a manner that is consistent with the University’s mission and purpose, promotes its vision for the lands that it manages, and contributes to the achievement of the University’s goals and objectives. This is discussed in Part 1: Foundations. It consolidates and clarifies the University’s use and development policies for the subject lands and is intended to guide the University’s decision-making over a 20-year period.

In summary, the following elements were incorporated in the Master Plan:

**B. Community Engagement**

Recognizing public criticism regarding community engagement, one of the primary focal points of the Task Group was ensuring a high level of public outreach on the Master Plan. The University administration and consultants conducted extensive outreach efforts. They prepared a comprehensive appendix attached to the Master Plan as Appendix A, Summary of Draft Master Plan Outreach, Input, and Related Plan Revisions.

In addition to the direct outreach conducted by administration to a multitude of stakeholders, including the Office of Hawaiian Affairs, kia’i, cultural practitioners, and Maunakea observatories, and opportunities for the public to provide comment regarding the Master Plan during public meetings of the MKMB, the Board is scheduling a special meeting on December 16, 2021, specifically to allow any additional public input on the Master Plan, as well as

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\(^2\) See Master Plan at 2-1.

\(^3\) See id. at 2-2 through 2-3 (“UH Maunakea Lands” are as defined under HRS §304A-1901).
comment on this report. The provisions of Section 92-2.5(b), HRS, relating to permitted interaction groups, do not allow Board members to discuss the findings and recommendations until a subsequent meeting. As such, the Board will have a full month to consider any additional public input that is received for or at the December 16, 2021, Special Meeting.

C. The University of Hawaii as Steward and the Master Lease

The Task Group acknowledges past missteps concerning the stewardship of Maunakea, which the Master Plan acknowledges on page viii and strongly encourages action by the University to correct and address the aforementioned missteps. The University at all levels has taken those lessons to heart. It has made substantial changes and improvements to management of activities on Maunakea lands, including but not limited to, reorganizing the management structure of Maunakea and moving forward with the adoption of administrative rules to regulate public and commercial activities to protect the environment and preserve cultural practices and resources. These issues are covered in the Master Plan in Sections 2.3 Master Plan Implementation, 2.4.1 Recreational Activities in the Plans, and 5.3 Facilities to Manage Access.

Maunakea is a premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions. The University is a premier astronomy institution, and astronomy is a key economic driver on Hawai‘i Island. The Master Plan recognizes that the University’s primary activity on Maunakea is astronomy. The Task Group recognizes that conducting these activities on Maunakea comes with a much greater responsibility to respect the rights of cultural practitioners, protect the land and environment, and manage commercialization. These issues are discussed in Section 1.4.4 Seek Balance and Mutually Beneficial Relationships Among those who come to Maunakea.

The University’s stewardship has significantly improved over time, and especially since the initial audits were performed decades ago. The University has devoted considerable extramural, tuition, and general fund resources towards stewardship of Maunakea, as part of the State’s longstanding (over 50 years) policy of supporting world-class astronomy on Maunakea. The Task Group believes that the University should continue to use these considerable resources to manage the Maunakea Science Reserve (“MKSR”). Under General Lease from BLNR, the University grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world-class facilities and research coordination. However, the Master Plan also recognizes that the General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. Still, the Master Plan is essential to the University’s management efforts until 2033. After 2033, if the University is not granted a land authorization that includes the MKSR, whatever entity takes the University’s place might adopt some, all, or none of the Master Plan in its planning efforts.
This is discussed in Sections 2.1 Purpose of this Master Plan and 2.3 Master Plan Implementation.

**D. CMP Update**

Although the Task Group embarked on its charge with the intent of considering the Master Plan and CMP, the timing of preparing the two plans did not align. As such, the Task Group is reporting only on the Master Plan and will report on the CMP separately at the appropriate time.

The *Maunakea Comprehensive Management Plan Outcome Analysis Report*, dated August 2021 ("OAR"), was completed by the University administration, submitted to the Department of Land and Natural Resources ("DLNR"), and posted by DLNR on its website in November 2021. Like the Master Plan, the OAR was prepared with significant input from the community, as documented in Appendix B, Summary of Outreach and Consultation, of the OAR. Once the OAR is presented to BLNR as part of the University’s annual CMP report, a draft of the CMP will be prepared, and public engagement will start.

**E. Board Resolutions 19-03 and 21-02**

Board Resolution 21-02 is entitled, “To Further Act on Items Relating to Maunakea Management and Amend Board of Regents Resolution 19-03.”

The Task Group acknowledges the following action items (not all-inclusive) identified in Board Resolution 21-02:

- That progress updates be provided to the Board regarding progress made toward the accomplishment of action items set forth in Board Resolution 19-03; and
- That progress updates be provided to the Board regarding the restructuring plan adopted by the Board in August 2020.

Administration has notified the MIG that at the December 16, 2021, Special Board meeting, they will provide a progress update toward the accomplishment of certain action items set forth in Board Resolution 19-03. A recommendation regarding the restructuring plan is noted in the forthcoming recommendations.

**III. RECOMMENDATIONS**

Based upon the foregoing, the Task Group hereby recommends:

- **Consideration of Board approval of the attached Master Plan.** Please note that the Board will not be able to discuss or consider action on this report or the draft Master Plan until a meeting subsequent to the December 16, 2021, Special Board meeting.

- **Administration should continue to engage in extensive outreach efforts.** As it did for the Master Plan, the University administration and
consultants should continue with its extensive outreach efforts to talk with community members and stakeholders regarding the Master Plan, as well as the draft CMP when it is available in the near future.

- **The University should continue to use the considerable resources it brings to manage the MKSR and to support world-class astronomy.** The University’s stewardship has significantly improved over time, and the Task Group believes that the University should continue to use the considerable extramural, tuition, and general fund resources it can and has brought to bear to manage the MKSR in a responsible, balanced manner.

- **Encourage the Independent Audit Committee of the Board to include in the Internal Audit Work Plan a management audit of the University’s Maunakea management structure.** On February 22, 2018, the Board adopted a resolution directing the Office of Internal Audit to conduct an audit of relevant University-related entities engaged in the stewardship and management of Maunakea. Subsequently, in August 2020, the Board approved restructuring the University’s internal management of UH Maunakea Lands. During the December 2, 2021, Independent Audit Committee meeting, Regent Kudo, Chair of the committee, requested consideration of a future amendment to the Internal Audit Work Plan to include a management audit of the University’s new internal management structure, since the previous review by the Internal Auditor was conducted prior to the internal reorganization.

- **Keeping the Task Group active to meet its charge of reviewing and investigating proposed changes to the CMP.** As previously stated, the Task Group was not able to review the Master Plan and CMP concurrently as initially intended. As such, the Task Group recommends closing out the Master Plan portion of its charge while keeping open the CMP portion which is anticipated to be completed in the first half of 2022.

## IV. CONCLUSION

The Task Group has concluded the portion of its task relating to the Maunakea Master Plan when the Board approved its creation during its May 20, 2021, meeting. Its specific recommendations are contained hereinabove and include recommendation of consideration of approval of the attached draft Master Plan.

The Task Group has not yet concluded the portion of its task relating to the CMP and will continue to work with Administration until that task is complete.

### ATTACHMENTS

Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Nā Leo (Listen to the Voices), December 10, 2021.

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4 December 19, 2018 Board of Regents Committee on Independent Audit Materials (University of Hawai‘i Review of Maunakea, September 2018).
MEMORANDUM

TO: Randolph G. Moore  
Chairperson, Board of Regents

VIA: David Lassner  
President

FROM: Bonnie Irwin  
Chancellor, University of Hawai‘i at Hilo

SUBJECT: Adoption of the Draft Plan entitled, "Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices)"

A. SPECIFIC ACTION REQUESTED

On behalf of the Center for Maunakea Stewardship ("CMS"), we request that the Board of Regents ("Board") consider and adopt the draft plan entitled "Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices)," Volumes 1 and 2, attached hereto as Attachment "A" ("Master Plan").

Our request is consistent with the findings and recommendations of the Maunakea Plan Review Permitted Interaction Group ("Task Group") report submitted to the Board for its special meeting on December 16, 2021 ("Special Meeting"), entitled "Report of the Maunakea Plan Review Permitted Interaction Group," dated December 10, 2021 ("Task Group Report"). The Master Plan includes changes to the version attached to the Task Group Report. Changes are based on further input from the Special Meeting and are summarized below.

B. RECOMMENDED EFFECTIVE DATE

Upon approval.
C. PURPOSE

The purpose of this request is to fulfill the University’s obligation and need to have a current master plan to replace the “Mauna Kea Science Reserve Master Plan,” adopted by the Board on June 16, 2000 (“2000 Master Plan”). The 2000 Master Plan had a planning horizon to the year 2020. The Department of Land and Natural Resources (“DLNR”) requires that the University have a current master plan in place before seeking a new land authorization from the Board of Land and Natural Resources (“BLNR”) for the continued management and use of Maunakea.¹

D. AUTHORIZATION

No specific statutory or administrative rule authority is required for the Board to adopt the Master Plan.

E. BACKGROUND INFORMATION

1. Process for Developing the Master Plan

The process of developing the Master Plan is summarized in the Task Group Report; Volume 1 of the Master Plan Appendix A, “Summary of Draft Master Plan Outreach, Input, and Related Plan Revisions”; and Appendix B, “Summary of Pre-Draft Outreach and Subsequent Master Plan Adjustments.” All public comments were considered in drafting the Master Plan.

The Master Plan is the result of comprehensive and iterative outreach to individuals, interest groups, agencies, and the public. On September 10, 2021, after months of lengthy discussions by the planning team with individuals and small groups regarding previous drafts of the Master Plan, the public was notified that a draft was available for review and comment. Public outreach included:

- U.S. mail to 245 individuals, groups, and agencies;
- Email to 596 individuals, groups, and agencies;
- Press releases that were picked up by publicly available newspapers, radio spots, TV news stories, and website news stories;
- Posts on University social media feeds, websites, and CMS e-newsletters; and
- Direct outreach to those who reviewed earlier drafts of the Master Plan, including leaders of the Hawai‘i Island kia‘i and others.

All comments received on the Master Plan are compiled in Volume 2. It includes input received through:

¹ DLNR also requires that the “Mauna Kea Comprehensive Management Plan, UH Management Areas,” approved by BLNR on April 9, 2009, is updated and approved by BLNR, which is currently in process by CMS.
• The Konveio website commenting tool—473 comments from roughly 491 individual commenters;  
• The Konveio comment form—363 unique individuals submitted comment forms;  
• U.S. mail and email—17 unique entities submitted comments;  
• Toll-free hotline recordings—26 individuals; and  
• Emails received from 123formbuilder.com, designed and run by a non-University entity—573 emails were received.

A version of the Master Plan, after the above efforts were completed, was submitted to the Task Group for their consideration. The Task Group submitted a version of the Master Plan to the Board at its Special Meeting. CMS made the following changes to Volume 1 of the Master Plan after the Special Meeting based on additional public comments, individual comments by Regents, and copyediting for consistency. Changes to Volume 1 are shown in Attachment "B" to this memorandum, which is a collection of only the redlined pages showing changes made to Volume 1, as follows:

• Page v. Revised Volume 2 table of contents, copyediting changes, and added headings for additional testimony received and to be received from the January 20, 2022 Board meeting;  
• Page 2-6. Clarified result of lease surrender and added comment about the "University of Hawai‘i Response to the Maunakea Working Group's Draft Report: He Lā Hou Kēia Ma Mauna A Wākea: A New Day On Mauna A Wākea" ("University MKWG Response").²  
• Page 7-1. Revised to clarify the purpose of design guidelines.  
• Page 7-8. Revised to clarify the purpose of zero-discharge wastewater systems.

The remaining pages redlined in Attachment "B," but not discussed above, were minor copyediting changes. In addition, the following changes were made to Volume 2: changed headings for consistency; added table of contents and sections; and added University MKWG Response.

The Master Plan attached to this memorandum as Attachment "A" includes all the changes discussed above and the redlined changes made after the Special Meeting shown in Attachment "B."

2. Next Steps

If the Board adopts the Master Plan, with or without further revisions, CMS will:

² House Resolution No. 33, H.D. 1 adopted by the State House of Representatives on March 4, 2021, established the Mauna Kea Working Group, which published its draft report for public comments on December 17, 2021.
• Finalize the Master Plan (i.e., nonsubstantive copyediting if needed);
• Add any comments received from the January 20, 2022 Board meeting to Volume 2;
• Insert the Board adoption date on the first page for Volume 1; and
• Obtain signatures from the Board chair and University president to the “Welcome Letter” at the beginning of Volume 1.

Through the University of Hawai‘i at Hilo, CMS will be charged with leading and tracking the implementation of the Master Plan, posting the Master Plan online for public accessibility, and transmitting a copy to DLNR’s Office of Conservation Coastal Lands for its information.

F. ACTION RECOMMENDED

Adoption of the “Master Plan for the University of Hawai‘i Maunakea Lands, E Ō l Nā Leo (Listen to the Voices),” Volumes 1 and 2, subject to nonsubstantive copyediting to finalize the document for publication.

G. ATTACHMENTS

Attachment “A” Master Plan for the University of Hawai‘i Maunakea Lands, E Ō l Nā Leo (Listen to the Voices), Volumes 1 and 2.

Attachment “B” Master Plan for the University of Hawai‘i Maunakea Lands, E Ō l Nā Leo (Listen to the Voices), Volume 1 (Redlined Pages Only)

c: Kendra Oishi, Executive Administrator and Secretary of the Board, University of Hawai‘i
MASTER PLAN FOR THE UNIVERSITY OF HAWAIʻI MAUNAKEA LANDS
E Ō I NĀ LEO (LISTEN TO THE VOICES)*
VOLUME 1

* The name of this plan, E Ō I Nā Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

ADOPTED BY THE UNIVERSITY OF HAWAIʻI BOARD OF REGENTS ON DATE

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

JANUARY 11, 2022
VOLUME 1
THE UNIVERSITY OF HAWAIʻI COMMITMENT TO COLLABORATIVE
MAUNAKEA STEWARDSHIP ............................................................................................. VIII
E Ō I NĀ LEO (LISTEN TO THE VOICES) FOREWORD ................................................. XI

PART 1: FOUNDATIONS
1 MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES ........ 1-1
1.1 UH’S MISSION AND PURPOSE ON MAUNAKEA ........................................ 1-1
1.2 UH’S VISION FOR MAUNAKEA ................................................................. 1-2
1.3 CORE VALUES ASSOCIATED WITH MAUNAKEA ...................................... 1-2
1.4 GOALS AND OBJECTIVES ..................................................................... 1-3
   1.4.1 Responsibly Steward Maunakea for Present and Future Generations .... 1-3
   1.4.2 Maintain the University’s & Maunakea Observatories’ Status as World Leaders in Astronomy 1-4
   1.4.3 Diversify Educational Pursuits and Expand Research Opportunities .......... 1-6
   1.4.4 Seek Balance and Mutually Beneficial Relationships Among those who come to Maunakea .... 1-7
1.5 STRATEGIES......................................................................................... 1-7

2 BACKGROUND AND CONTEXT .................................................................... 2-1
2.1 PURPOSE OF THIS MASTER PLAN ..................................................... 2-1
2.2 LAND AREA OVER WHICH THIS MASTER PLAN APPLIES ............... 2-2
2.3 MASTER PLAN IMPLEMENTATION ....................................................... 2-5
2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS ............. 2-6
   2.4.1 Recreational Activities in the Plans ................................................... 2-6
   2.4.2 Commercial Activities in the Plans ................................................... 2-7
   2.4.3 Astronomy Facility Decommissioning and Site Restoration in the Plans .......... 2-7
2.5 CAPITAL IMPROVEMENT APPROVALS AND FUNDING ...................... 2-7

PART 2: PHYSICAL PLAN
INTRODUCTION ................................................................................................. 1

3 HALEPŌHAKU ......................................................................................... 3-1
   3.1 PLANNING CONTEXT ........................................................................ 3-1
   3.1.1 Background............................................................................... 3-1
   3.1.2 Limitations on New Development at Halepōhaku .................. 3-4
   3.1.3 UH Commitments Regarding Use of Halepōhaku .................. 3-5
   3.2 MKSS BASEYARD ........................................................................ 3-5
   3.3 UH Hilo New Educational Telescope ............................................ 3-6
      3.3.1 Background ........................................................................ 3-6
      3.3.2 New Educational Telescope at Halepōhaku .................. 3-7
   3.4 OTHER HALEPŌHAKU FACILITIES ............................................. 3-9
3.4.1 Repurposing Overview .................................................................................................................. 3-9
3.4.2 Specific Projects .......................................................................................................................... 3-10

4 MAUNAKEA SCIENCE RESERVE ...................................................................................................... 4-1
4.1 PLANNING CONTEXT ..................................................................................................................... 4-1
4.1.1 Background .................................................................................................................................. 4-1
4.1.2 UH Commitments ....................................................................................................................... 4-4
4.2 MANAGEMENT & STEWARDSHIP-RELATED FACILITIES & PROJECTS ................................... 4-5
4.2.1 Addressing Stewardship Measures in the CMP ........................................................................ 4-5
4.2.2 Facilitating Public Activities ................................................................................................... 4-6
4.3 EDUCATION, RESEARCH, AND ASTRONOMY FACILITIES ..................................................... 4-12
4.3.1 Diverse Education and Research Facilities and Developments ............................................. 4-12
4.3.2 Astronomy Decommissionings ................................................................................................. 4-13
4.3.3 Continued Operation, Modifying, and/or Recycling Astronomy Sites and Facilities ............. 4-14
4.3.4 Other Potential Astronomy-Related Projects ......................................................................... 4-16

5 ROADWAYS, UTILITIES, AND MANAGED ACCESS .................................................................. 5-1
5.1 ROADWAYS .................................................................................................................................. 5-1
5.2 UTILITIES .................................................................................................................................... 5-3
5.2.1 Electrical Power ......................................................................................................................... 5-3
5.2.2 Communication and Data ........................................................................................................ 5-4
5.2.3 Water Supply .......................................................................................................................... 5-5
5.2.4 Wastewater Management ...................................................................................................... 5-5
5.3 FACILITIES TO MANAGE ACCESS .......................................................................................... 5-6
5.3.1 Conceptual Initial Phase Access Management Facilities ....................................................... 5-7
5.3.2 Phase 2 Access Management Facilities Concept ................................................................... 5-10

PART 3: IMPLEMENTATION

INTRODUCTION .......................................................................................................................... 1

6 PROPOSAL REVIEW PROCESS ........................................................................................................ 6-1
6.1 SUBMITTING A PROPOSAL ......................................................................................................... 6-2
6.2 PHASE 1 SCREENING AND ASSESSMENT ............................................................................. 6-2
6.3 PHASE 2 PROPOSAL REVIEW .................................................................................................... 6-4
6.4 PHASE 3, TYPE B PROPOSAL REVIEW ..................................................................................... 6-7
6.5 PHASE 4, TYPE C PROPOSAL REVIEW ...................................................................................... 6-9
6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE .................................................... 6-11
6.6.1 Type A ......................................................................................................................................... 6-11
6.6.2 Type B ....................................................................................................................................... 6-12
6.6.3 Type C ....................................................................................................................................... 6-12

7 DESIGN GUIDELINES .................................................................................................................... 7-1
7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS .................................................. 7-1
7.1.1 Management of Native Materials ......................................................................................... 7-1
7.1.2 Import of Aggregate Materials ............................................................................................. 7-2
7.1.3 Lighting ..................................................................................................................................... 7-2
7.2 GUIDELINES APPLICABLE TO NEW ASTRONOMY FACILITIES IN THE MKSR ................. 7-3
7.2.1 All Improvements to Remain within Subject Astronomy Site .............................................. 7-3
### Table of Contents

7.2.2 Dome Height................................................................................................................................. 7-3  
7.2.3 Height of Structures Other than Domes........................................................................................................ 7-5  
7.2.4 Limit on Overall Bulk of Facilities on Astronomy Sites .............................................................. 7-6  
7.2.5 Color of Facilities ......................................................................................................................... 7-6  
7.2.6 Snow and Ice Considerations ........................................................................................................ 7-6  
7.2.7 Landscape Plantings ..................................................................................................................... 7-7  
7.2.8 Parking .......................................................................................................................................... 7-7  
7.2.9 Fences, Walls, and Barriers .......................................................................................................... 7-7  
7.2.10 Fuel System and Hazardous Materials .......................................................................................... 7-7  
7.2.11 Wastewater System .................................................................................................................... 7-8  
7.2.12 Sound Generation ......................................................................................................................... 7-8  
7.2.13 Maximize Extent of Remote Operation ........................................................................................ 7-8  
7.2.14 Exceptions to the Guidelines for Astronomical Facilities ............................................................ 7-8  
7.3 Guidelines Applicable to Other Facilities and Uses in the MKSR .............................................. 7-8  
7.4 Design Guidelines for Halepōhaku (TMK Parcel 12) ................................................................. 7-9  
7.5 Guidelines Applicable to Roadway, Utility Development, and Signage: All Areas: ............................. 7-9  
7.5.1 Roadways .................................................................................................................................... 7-10  
7.5.2 Utilities ........................................................................................................................................ 7-10  
7.5.3 Signage ........................................................................................................................................ 7-10  
7.6 Exempt Facilities ............................................................................................................................. 7-12  

8 Master Plan Adoption, Effectiveness, and Future Amendments .............................................................. 8-1  

9 References........................................................................................................................................... 9-1  

### LIST OF FIGURES

- Figure 2-1: UH Maunakea Lands ........................................................................................................ 2-4  
- Figure 2-2: CMS Governance Structure, Established in 2020 ......................................................... 2-5  
- Figure 3-1: Halepōhaku Overview .................................................................................................... 3-2  
- Figure 3-2: Federally Designated Critical Habitat for Palila ............................................................. 3-4  
- Figure 3-3: PlaneWave Instruments CDK700 .................................................................................. 3-7  
- Figure 3-4: Conceptual Illustration of NET by Dormitory A ............................................................ 3-8  
- Figure 4-1: Mauna Kea Science Reserve Astronomy Sites .............................................................. 4-3  
- Figure 4-2: Archaeology Sites in the UH Maunakea Lands ................................................................. 4-8  
- Figure 4-3: Potential Parking Project Locations in Summit Region .................................................. 4-10  
- Figure 4-4: Potential Amendment of Astronomy Site 7 and 8 Boundaries ........................................ 4-19  
- Figure 5-1: Potential Road Project Locations .................................................................................... 5-2  
- Figure 5-2: Schematic Illustrating Conceptual Initial Phase Facility Operation .............................. 5-8  
- Figure 5-3: Conceptual Schematic Indicating Area for Managed Access Initial Phase Facilities ....... 5-9  
- Figure 6-1: Phase 1 Screening and Assessment Process Flowchart .................................................. 6-3  
- Figure 6-2: Phase 2 Review Process Flowchart .................................................................................. 6-5
Figure 6-3: Establishing Proposal Type Flowchart ................................................................. 6-6
Figure 6-4: Phase 3, Type B Proposal Review Flowchart......................................................... 6-8
Figure 6-5: Phase 4 Type C Proposal Review Flowchart ......................................................... 6-10
Figure 6-6: Review Flowchart and Timeline: Type A Proposal .............................................. 6-14
Figure 6-7: Review Flowchart and Timeline: Type B Proposal .............................................. 6-15
Figure 6-8: Review Flowchart and Timeline: Type C Proposal .............................................. 6-16
Figure 7-1: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Hilo ........................................................................................................................... 7-4
Figure 7-2: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Waimea .............................................................................................................................................. 7-5

LIST OF TABLES
Table 2-1: Examples of Distinction between Master Plan and CMP Content ....................... 2-6
Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve .................... 4-2
Table 4-2: Probability of Modification or Recycling by Astronomy Site .............................. 4-15

LIST OF APPENDICES
APPENDIX A. SUMMARY OF DRAFT MASTER PLAN OUTREACH, INPUT, AND RELATED PLAN REVISIONS
APPENDIX B. SUMMARY OF PRE-DRAFT OUTREACH AND SUBSEQUENT MASTER PLAN ADJUSTMENTS
APPENDIX C. SUMMARY OF MISSION, VISION, AND VALUES EXPRESSED IN VARIOUS UH SYSTEM, UH HILO, IFA, AND ʻIMILOA PLAN DOCUMENTS
APPENDIX D. BOARD OF REGENTS RESOLUTIONS RELATED TO MAUNAKEA
APPENDIX E. PROCESS TO ESTABLISH WHICH ASTRONOMY FACILITIES MAY CONTINUE AFTER 2033
APPENDIX F. ASTRONOMY SITE DESCRIPTIONS AND DEPICTIONS
# VOLUME 2

**Letter Sent via U.S. Mail Announcing Availability of the Draft Master Plan for Review**

- **List of U.S. Mail Letter Recipients**
- **Email Sent Announcing Availability of the Draft Master Plan for Review**
- **List of Email Recipients**
- **Press Releases and Media Pickups**
- **Targeted Outreach List for Input on the Public Draft Master Plan**
- **Konveio Website Google Analytics Report**
- **Input Received via Konveio Website Commenting Tool**
- **Input Received via Konveio Comment Form**
- **Input Received via U.S. Mail**
- **Input Received via Email**
- **Summary of Comments Received via Toll-Free Hotline**
- **Input Received via Email from 123formbuilder.com**
- **Written Testimony Received in Advance of December 16, 2021, Board of Regents Meeting**
- **UH Response to Mauna Kea Working Group’s He Lā Hou Keal Ma Mauna A Wēkea: A New Day On Mauna A Wākea**
- **Written Testimony Received in Advance of January 20, 2021, Board of Regents Meeting**
# Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Meaning</th>
</tr>
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<tbody>
<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
</tr>
<tr>
<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
</tr>
<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
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<tr>
<td>CDUA</td>
<td>Conservation District Use Application</td>
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<tr>
<td>CDUP</td>
<td>Conservation District Use Permit</td>
</tr>
<tr>
<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<tr>
<td>CIP</td>
<td>Capital Improvement Project</td>
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<tr>
<td>CMP</td>
<td>Comprehensive Management Plan&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<tr>
<td>CRMP</td>
<td>Cultural Resources Management Plan</td>
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<tr>
<td>CSO</td>
<td>Caltech Submillimeter Observatory</td>
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<tr>
<td>DESI</td>
<td>Dark Energy Spectroscopic Instrument</td>
</tr>
<tr>
<td>DHHL</td>
<td>Department of Hawaiian Home Lands</td>
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<tr>
<td>DLNR</td>
<td>Department of Land and Natural Resources</td>
</tr>
<tr>
<td>DOFAW</td>
<td>Division of Forestry and Wildlife (DLNR)</td>
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<tr>
<td>EA</td>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>EDD</td>
<td>Environmental Due Diligence</td>
</tr>
<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>EISPN</td>
<td>EIS Preparation Notice</td>
</tr>
<tr>
<td>ESA</td>
<td>Environmental Site Assessment</td>
</tr>
<tr>
<td>General Lease</td>
<td>General Lease S-4191 from BLNR to UH, which expires December 31, 2033</td>
</tr>
<tr>
<td>GRACES</td>
<td>Gemini Remote Access to CFHT ESPaDOnS Spectrograph</td>
</tr>
<tr>
<td>GRP</td>
<td>Grouted rubble pavement</td>
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<tr>
<td>HAR</td>
<td>Hawai‘i Administrative Rules</td>
</tr>
<tr>
<td>HDOT</td>
<td>Hawai‘i Department of Transportation</td>
</tr>
<tr>
<td>HECO</td>
<td>Hawaiian Electric Company</td>
</tr>
<tr>
<td>HRS</td>
<td>Hawai‘i Revised Statutes</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating, ventilation, and air conditioning</td>
</tr>
<tr>
<td>IFA</td>
<td>Institute for Astronomy</td>
</tr>
<tr>
<td>‘Imiloa</td>
<td>‘Imiloa Astronomy Center of Hawai‘i</td>
</tr>
<tr>
<td>IR</td>
<td>Infrared</td>
</tr>
<tr>
<td>IRTF</td>
<td>NASA Infrared Telescope Facility</td>
</tr>
<tr>
<td>JCMT</td>
<td>James Clerk Maxwell Telescope</td>
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<tr>
<td>KKM</td>
<td>Kahu Kū Mauna</td>
</tr>
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<sup>1</sup> Unless stated otherwise, the term “CMP,” as used in this document, is inclusive of (i) the *Mauna Kea Comprehensive Management Plan, UH Management Areas* dated April 2009; (ii) the *Natural Resources Management Plan for the UH Management Areas on Mauna Kea, A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated September 2009; (iii) *A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea, Ka‘ōhe Ahupua‘a, Hāmākua District, Hawai‘i Island, State of Hawai‘i, TMK: (3) 4-4-015: 09, 12, A Sub-Plan for the Mauna Kea Comprehensive Management Plan* dated October 2009; (iv) the *Public Access Plan for the UH Management Areas on Mauna Kea* dated January 2010; and (v) the *Decommissioning Plan for the Mauna Kea Observatories, a Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated January 2010.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
</tr>
<tr>
<td>MKO</td>
<td>Maunakea Observatories</td>
</tr>
<tr>
<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
</tr>
<tr>
<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>MSE</td>
<td>Maunakea Spectroscopic Explorer</td>
</tr>
<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
</tr>
<tr>
<td>NAR</td>
<td>Natural Area Reserves (DLNR)</td>
</tr>
<tr>
<td>NET</td>
<td>New Educational Telescope</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>OCCL</td>
<td>Office of Conservation and Coastal Lands (DLNR)</td>
</tr>
<tr>
<td>OMKM</td>
<td>Office of Maunakea Management</td>
</tr>
<tr>
<td>PV</td>
<td>Photovoltaic</td>
</tr>
<tr>
<td>RFI</td>
<td>Radio Frequency Interference</td>
</tr>
<tr>
<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
</tr>
<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
</tr>
<tr>
<td>TMK</td>
<td>Tax Map Key</td>
</tr>
<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
</tr>
<tr>
<td>UC</td>
<td>University of California</td>
</tr>
<tr>
<td>UH</td>
<td>University of Hawai‘i</td>
</tr>
<tr>
<td>UH Hilo</td>
<td>University of Hawai‘i at Hilo</td>
</tr>
<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
</tr>
<tr>
<td>VIS</td>
<td>Visitor Information Station</td>
</tr>
<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
</tr>
<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
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</table>
THE UNIVERSITY OF HAWAI‘I COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP

Aloha:

In preparing this Master Plan, we have been enlightened by the insights of Native Hawaiian cultural experts, humbled by the criticisms from disappointed community members as well as past audits, and blessed with the knowledge from painful lessons learned from prior missteps. We have been informed through community engagement during our decade-long rulemaking process and initiatives such as Envision Maunakea.

Consequently, this Master Plan gives special attention not only to the astronomy programs on which the University of Hawai‘i (UH) focused its attention for the first three decades of our stewardship, but also to the place of honor and renown that Maunakea has in the history, culture, and hearts of the Hawaiian people.

This Master Plan incorporates this broadened focus and the major changes UH has made over the past two decades in the way we manage the Maunakea lands we are honored to steward. It differs markedly from the Mauna Kea Science Reserve Master Plan (2000) that it supersedes. Key guidance in place today was absent when the previous Master Plan was prepared, including the Mauna Kea Comprehensive Management Plan (CMP) and its subplans and the Maunakea administrative rules entitled Public and Commercial Activities on Mauna Kea Lands (HAR Chapter 20-26). These will better equip the managers to steward Maunakea in a way that balances the impacts of astronomy on cultural practices and the environment while amplifying community, educational, and research benefits for all.

From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions. In accordance with guidance from the Board of Regents, in 2019 through Resolution 19-03, the UH has reorganized the existing Maunakea management structure and addressed other long-standing issues. On-the-ground authority now resides with the Center for Maunakea Stewardship (CMS) based on Hawai‘i Island. The restructuring, which covers all operating and advisory units associated with Maunakea, established clearer lines of accountability and improved transparency within UH’s management operations. The restructuring was shaped by input received during more than 90 meetings with advisory groups, staff, faculty, community members, representatives of the Maunakea observatories, elected representatives, government agencies, and partners. A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i (guardians).

Our new CMS and the entire UH are fully committed to continuing this journey of deep listening, particularly in the Native Hawaiian community, as we make management and land use decisions. This Master Plan and concurrent updates to the CMP management actions are critical steps in demonstrating our commitment to continuous improvement and collaborative stewardship of Maunakea.

Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ʻImiloa Astronomy
Center of Hawai‘i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.

With the work and aid of Rangers, natural and cultural resource experts, and community volunteers, such as those who have served on the Maunakea Management Board, Kahu Kū Mauna Council, and the Environment Committee, we have addressed and corrected nearly all the deficiencies that were identified in past audits and reviews. UH is in the process of addressing those that remain such as updating plans, improving our education programs, and actively decommissioning telescopes from the mauna. The Department of Land and Natural Resources’ relatively recent independent evaluation reported that Maunakea and its natural and cultural resources are now among the best managed and protected lands in the State. The awards that we have received from the Historic Hawai‘i Foundation and the Kona Kohala Chamber of Commerce are further affirmation of the substantial progress UH has made over the last 20 years since we began to respond in earnest to the criticisms of our early stewardship. With the approval of the Maunakea administrative rules and the internal management reorganization, UH is better prepared today to care for Maunakea.

Just as UH is committed to outstanding stewardship of Maunakea, we remain committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for Hawai‘i students and faculty while driving economic activity that helps diversify Hawai‘i’s economy and creates employment opportunities for our residents. With significant presence on three islands, UH’s Institute for Astronomy is one of the nation’s largest and finest university astronomy programs, a source of pride to Hawai‘i, due in no small measure to the astronomy facilities on Maunakea that are the most respected and scientifically productive in the world.

We believe that the lessons we have learned and the strides we have made uniquely position UH to provide balanced stewardship of Maunakea lands. As such, we are seeking a new land authorization that will, if granted, allow UH to continue along our path of continuous improvement in collaborative stewardship and management while supporting a world-class astronomy program, with fewer astronomy facilities, in a manner that honors the mauna.

If UH is removed from our overall stewardship responsibilities, whatever entity assumes control may adopt a different plan with different priorities and goals. In that case, until a new steward is selected, and a new plan adopted, we are confident that this Master Plan will continue to guide balanced and beneficial land use decisions on Maunakea, just as the CMP will continue to guide management decisions until such time as that plan may be replaced. UH is hopeful that we can maintain a role in ensuring a respectful astronomy program with the excellence that Maunakea deserves.

In closing, we wish to thank the many people who have helped and continue to help us fulfill our responsibilities to Maunakea. They include the Rangers who protect everyone’s safety on the mountain, the CMS staff and many volunteers who have helped to restore and preserve the environment, the researchers who continue to deepen our understanding of the Universe, and our faculty, students, and alumni, especially Native Hawaiians, who have all taught us important lessons. We appreciate the voices of those within the UH and in the community, including those who have disagreed with our decisions and positions; even when we are not aligned, we learn from
their beliefs and their passion. Finally, we are grateful to the many individuals and groups who have shared their input and ideas with us; we look forward to their continuing engagement throughout the Master Plan’s implementation.

UH stands firmly behind the statement in the August 24, 2017, Board of Regents’ resolution expressing UH’s “commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and … to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.”

Sincerely,

Randolph G. Moore
Chair, Board of Regents

David Lassner
President
E Ō I NĀ LEO (LISTEN TO THE VOICES)
FOREWORD

Mauna Kea, kuahiwi kū haʻo i ka mālie.
Mauna Kea, standing alone in the calm.2

This ‘ōlelo noʻeau (Hawaiian proverbs and poetic sayings) recognizes and expresses the sentiment that Maunakea is a source of inspiration to many people. Steadfast always, the mauna (mountain) compels us to gaze upward in search of the unknown, thereby engendering a sense of wonderment and hope.

Maunakea is linked to the culture and cosmology of Native Hawaiian people, and for many the mauna is sacred. Its resources serve as the source for a diverse range of spiritual, research, educational, recreational, and subsistence experiences that define the significance of the mauna. Its extraordinary blend of topographic and atmospheric qualities make Maunakea the most desirable location for ground-based astronomy in the Northern Hemisphere, and the exceptional combination of alpine and subalpine ecosystems in a tropical environment make it ecologically unique as well. If there is truth to the idea that the nature of “place” shapes who we are as a community, Maunakea certainly stands alone as a preeminent example of this.

The quest to understand our beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins. In Hawaiian cosmology, Maunakea is considered the origin – the first-born island. For astronomers, the astronomy facilities on Maunakea represent a window to the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose of and challenge for this plan, and thus its name, E Ō I Nā Leo (Listen to the Voices), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.

The mauna stands alone, calm in the midst of all forms of storm. It reminds us that our varied interests, as diverse and sometimes divisive as they may be, are in fact woven as lei (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us all as one community.

2Pukui, 1983, No. 2147.
Strengthening Connections to Place

_He aliʻi ka ʻāina; he kauwā ke kanaka._

The land is a chief; man is its servant.³

Foundational values that guide UH’s stewardship and inform _E Ō I Nā Leo_ derive from key tenets of the Native Hawaiian worldview, which holds that cultural and natural landscapes are one and the same. In this worldview, land is not a commodity but rather an esteemed elder in the Native Hawaiian family system. The Native Hawaiian relationship to the land is one of reciprocity and kinship; people serve the land/elder which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawaiʻi Island community, and the international astronomy community who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of _E Ō I Nā Leo_ is to help all fulfill their responsibilities to the mauna and to one another.

Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our present plans and practices wherever we can. For example, Native Hawaiian tradition describes Maunakea as the first-born mountain son of _Wākea_ (sky father) and _Papa_ (earth mother), who were also progenitors of the Hawaiian race. Maunakea is symbolic of the _piko_ (umbilical cord) of the island-child, Hawaiʻi, and that which connects the land to the heavens (Maly, Piko Kaulana:v).

_Paupaniākea_ is another name for Wākea referenced in the Kumulipo. The name may mean “End of the closing up of light” or “Opening up of light” (Beckwith, Hawaiian Mythology:294) which in either case accurately describes some of the unique spiritual and astronomical qualities associated with the summit area. Further, as Pukui and Elbert note, ‘Āpapalani refers to the “Legendary upper stratum and abode of the gods [or] chiefs of the highest rank, as mī’aupiʻo.” (Pukui-Elbert:28). In researching these names, Pualani Kanahele notes:

“ʻĀpapalani is the space above the earth’s atmosphere where the oxygen is thinner. On the mountain it is where the greenery subsides and disappears, thins out like the oxygen. The space below where the daily rain clouds meet the mountain is ʻĀpapanuʻu. Therefore, we have two nomenclatures, the very top is Paupaniākea and ʻĀpapalani below”.

It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible. Achieving balance in the development and management of the resources can be accomplished only when there is a greater understanding and appreciation of the many values held by the community regarding Maunakea.

³Pukui, 1983, No. 531.
History, Voice, and Vision

I ka `olelo no ke ola, i ka `olelo no ka make.

In language there is life, in language there is death.4

Words can heal, words can destroy.

Historians write from a worldview that is shaped by their backgrounds, experience, and values. In Hawai‘i, for many years this meant that American historians often neglected and even denigrated traditional Native Hawaiian values and culture. That has changed substantially in recent decades with Native Hawaiian voices increasingly expressed and heard. As a result, historical events are better documented and more fully understood than was once the case and the impact on the Native Hawaiian diaspora more fully appreciated. The broadened discussion by voices of indigenous peoples has given rise to a movement that seeks to rectify past harm.

The ongoing conflict surrounding the development of the Thirty Meter Telescope (TMT) reflects the collision between different views. One of the views holds that astronomy on Maunakea is already over-developed and has been developed with too little regard for Native Hawaiian values and should therefore be scaled back or eliminated. Another view holds that the study of the heavens from Maunakea is both consistent with a traditional Hawaiian world view and practices and a worthy and important element of Hawai‘i island’s current and future economic and educational base. Those that share the latter view tend to also desire a decrease in the island’s dependence on tourism by encouraging the kinds of research, educational, and technological opportunities that accompany astronomy. There is legitimacy to all visions for Maunakea.

UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and subsequent generations, the path forward is through a knowledge-based economy inclusive of disciplines grounded in science and technology guided by the values of the community. A central question for Maunakea then becomes “do the values of our community allow for Maunakea to be a place where a component of this future (astronomy) is pursued beyond 2033 when conducted under both a land use and comprehensive management plan that seek to balance these diverse views?”

How one answers that question is a function of the diverse and sometimes conflicting views one holds regarding land use, governance, and stewardship. This diversity of opinion was most recently observed in the findings of the Department of Land and Natural Resources’ evaluation of UH’s implementation of the Maunakea Comprehensive Management Plan,5 which stated that “…the opinions of members of the public regarding UH stewardship of Maunakea has often depended upon whether they support or oppose telescope development on the mauna.”

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Unfortunately, E Ō I Nā Leo cannot change past actions nor eliminate their consequences for Native Hawaiians. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan. What E Ō I Nā Leo attempts is to incorporate the diverse values held by the community into a framework that supports discourse and decisions leading to a balance of interests and responsibilities and a unifying vision for Maunakea as a unique source of learning.

**Extending the Reach**

ʻAʻohe pau ka ʻike i ka hālau hoʻokahi.

All knowledge is not taught in the same school.6

One can learn from many sources.

In 2016, UH collaborated with the astronomy community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. These conversations identified the aspirations of community members regarding what Maunakea means to them and how they would like to see it stewarded. The intent was to improve UH’s understanding of why Maunakea is important to people and to use this feedback to inform UH and the astronomy community’s plans for the future. The conversations were intimate and, in many instances, deeply personal, with the shared experiences documented in *The Report of the Hui Hoʻołohe.*7

Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other. Maunakea uniformly is described as moving minds and spirit, and lives have been changed because of one’s relationship to the mauna even if from only a single experience. Second, the mauna is the teacher. While each of us brings with us a set of values, a knowledge base, and tools that shape our experience of it, in the end it is the mauna that teaches us both what we came to learn and that which it decides we need to learn.

Maunakea is not just a valuable astronomical resource, it is a unique natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ʻike Hawaiʻi (traditional knowledge), climate, and so much more. E Ō I Nā Leo proposes to broaden the focus of UH’s facilities and resources at Halepōhaku to support the educational and research opportunities that Maunakea offers in fields other than astronomy. The exact nature of the educational opportunities that will be offered are still to be developed, but in concept would be supported by Halepōhaku serving as a Multidisciplinary Field Station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional,

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6 Pukui, 1983; #203.
7 Envision Maunakea, 2018.
affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics.

Foundational to future educational programming and field work would be building a solid cultural base of ‘ike Hawai‘i and nohona Hawai‘i (traditional practices) underpinning all offerings and opportunities. CMS and ‘Imiloa are partnering to develop this programming in collaboration with other Native Hawaiian cultural resources across UH and in the community with a common goal of inspiring the intellectual and personal growth of all those who are privileged to visit, learn, and work there.

Ancestral Ways, New Beginnings

_Hahai no ka ua i ka ululā‘au._

Rains follow the forest.⁸

Knowing this, Hawaiians hewed only what was needed.

Native Hawaiian traditions and contemporary views recognize how special Maunakea is as both a source of inspiration and for the value of its unique natural resources. Guided by this perspective, this plan helps demonstrate UH’s relationship to Maunakea as a significant cultural and historical landscape where the State’s policy supporting astronomy on Maunakea is upheld, commitments are honored, and use of its resources are balanced in order to achieve a sustainable future for the diverse values our community ascribes to this special place.

In recognition of this, E Ō I Nā Leo seeks to _‘āwili_ (weave) the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place. Finding balance is a never-ending, constantly evolving journey that aligns well with UH’s overall purpose. Accordingly, E Ō I Nā Leo establishes a framework for moving forward with the understanding that, as with all sail plans, the navigators must constantly be aware of, adapt, and adjust to changing winds and seas that we encounter during our journey.

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⁸ Pukui, 1983, #405.
Part 1: Foundations
1 MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES

Maunakea is important to diverse communities on Hawai‘i Island, on the other islands that make up the state, and beyond. Part 1 of this plan describes the University of Hawai‘i’s (UH):

- **Mission and Purpose on Maunakea** – the reason for its presence on Maunakea.
- **Vision for Maunakea** – what it seeks to accomplish as a result of its actions on Maunakea.
- **Core Values** – the precepts that guide the way people behave as they try to implement the vision and carry out UH’s mission on Maunakea.
- **Goals and Objectives** – concise statements of what needs to be done to accomplish the mission, fulfill the vision, and promote the core values.
- **Strategies** – the overall approach that UH will use in attempting to reach the identified goals and objectives.

These are the foundations upon which UH’s Master Plan for Maunakea, *E Ō I Nā Leo* (Listen to the Voices), rests and which have guided the decisions that are reflected in it. Part 2 of this Master Plan discusses the facilities and land uses that UH believes should be accommodated within the UH Maunakea Lands over the period of this Master Plan. Part 3 of this Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

The content of this Master Plan, including UH’s mission, vision, and goals, were informed by discussions with diverse parties over a period of many months, which is summarized in Appendix A and Appendix B. Implementation of the plan will help UH succeed in its primary mission and achieve its intended purpose in a way that is consistent with its core values.

1.1 UH’S MISSION AND PURPOSE ON MAUNAKEA

UH’s mission and purpose on Maunakea, and therefore CMS’ mission, is to:

> Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom, and values while fostering mutual understanding and respect.

As mentioned above, this mission statement captures why UH operates on Maunakea. It draws on existing mission statements of those UH programs and units that directly oversee and/or engage in actions on Maunakea and whose direction, interests, and concerns this plan supports. Appendix C provides a summary of the existing mission statements of those UH programs and units.
1.2 UH’S VISION FOR MAUNAKEA

Upon adoption of this Master Plan by the BOR, UH’s vision for the lands that it manages on Maunakea will be:

Maunakea, a revered mountain, where landscape, community, and culture combine to inspire discovery, renewal, and world-class education and research.

Astronomy was the original motivation for UH’s involvement with Maunakea, and we anticipate that it will remain central to our activities on Maunakea. At the same time, the decades-long relationship has deepened and evolved to the point where today its Vision is much broader than was initially the case. At the heart of its Vision for the UH Maunakea Lands is the recognition that being allowed to carry out research on Maunakea requires one to mālama Maunakea, a place deeply rooted in culture and rich in ancestral knowledge. Accordingly, UH’s renewed Vision recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research should reinforce, rather than conflict with, one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.

In managing this precious area, UH recognizes that it must protect the area’s value as:

- A culturally significant landscape and a recognized historic district with many contributing historic properties; which for some is a wahi pana (storied/legendary place) and for others is a wao akua (realm of the gods).
- The premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions.
- Rare subalpine and alpine ecosystems in a tropical zone where species have uniquely evolved and adapted deserving of understanding and protection against human and environmental threats.
- A place for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences.

This Master Plan and the Comprehensive Management Plan (CMP) reflect and contribute to the achievement of the vision by creating the physical and administrative environment that supports exploration of humanity’s most basic of questions: “who are we” and “where did we come from?” The plan seeks balance among the diverse views that various members of society and culture hold regarding this question. The plan provides a framework for the people of Hawai‘i to benefit from worldwide resources while sustainably stewarding Maunakea for everyone’s benefit.

1.3 CORE VALUES ASSOCIATED WITH MAUNAKEA

The specific core values, i.e., precepts, that guide UH’s actions on the lands that it manages on Maunakea, are:

- Mālama (care for). Maunakea is a significant cultural and natural landscape. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s
obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.

- **Kuleana** (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. The summit region is wahi pana and, to many, wao akua where traditional Native Hawaiian cultural practices are exercised. It is where species have evolved to adapt to the unusual conditions existent on the mauna and where geography and climate come together to create unmatched astronomical viewing conditions. It is also where residents and visitors come to recreate. UH respects cultural practice and honors its privilege, commitment, and responsibility to support access to and use of resources that is balanced across the many values ascribed to Maunakea.

- **ʻIke Hawai‘i; Nohona Hawai‘i** (traditional knowledge; traditional practices). Our stewardship and educational programming will integrate traditional knowledge and practice to strengthen our care for Maunakea’s resources and people’s understanding and connection to place.

- **Mau loa** (a long view). UH will responsibly steward the physical, scientific, and biological resources present on Maunakea so that their vital ecosystem functions continue for future generations.

- **Laulima** (cooperation). As a public institution, UH is committed to broadening participation of Native Hawaiians and the larger community in its planning and programs for Maunakea. We encourage all people to come together in shared responsibility to collaboratively protect and learn from this special place.

- **Kūpono** (trustworthiness). Stewardship of the mauna and ensuring that Maunakea’s unique resources remain available for the continued advancement of science, education, and astronomy requires organizational and economic stability. UH will seek to maintain a level of trust and decision-making certainty that allows the continuation of responsible stewardship in partnership with the community.

These core values were developed with consideration for the values of other UH programs and units that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH activities on Maunakea. These include the values expressed in various UH System, UH Hilo, and ʻImiloa plan documents (Appendix C).

### 1.4 GOALS AND OBJECTIVES

The goals and objectives described below are concise statements of what needs to be achieved to fulfill the vision expressed in Section 1.2, accomplish the mission and purpose expressed in Section 1.1, and promote the core values in Section 1.3. Importantly, no goal has precedence over the others; they are equally important. Nor should they be thought as being exclusive of each other; in fact, UH views each as a strand that needs to be woven together to fulfill its vision.

#### 1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS

Referred to as the “Stewardship Goal,” it commits UH to stewarding Maunakea by implementing the CMP in coordination with the community to further a collective understanding of, respect for,
and protection of Maunakea’s cultural landscape and diverse natural and astronomical resources. UH recognizes that Maunakea is a distinctive and revered mountain and acknowledges that some Native Hawaiians feel they hold unique responsibilities to the care of the mountain through their religious and cultural practices. Accordingly, in carrying out the astronomical research that is the single most important reason for its position on the mountain, UH:

1. Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;
2. Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems in a manner consistent with the CMP and that honors Maunakea’s recognition as a National Natural Landmark;
3. Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and
4. Will limit astronomical research facilities and projects to those for which Maunakea is particularly well-suited.

Objectives under this Stewardship Goal include:

- Continue to implement CMP management actions, which protect, maintain, and restore the cultural landscape and natural resources.
- Affirm and protect Maunakea as a wahi pana and wao akua.
- Provide educational and other programs to ensure that, when in the UH Maunakea Lands, the public and those engaged in achieving this Master Plan’s goals act in a manner that respects Native Hawaiian traditional practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.
- Build relationships between the mauna, its special caretakers, and the broader community.
- Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.

UH commits itself to doing its utmost to ensure that present and future generations can reach their own understanding of the connections and complexities of Maunakea’s cultural landscape and natural resources. Accordingly, it will strive to protect these rich resources. UH will not work alone in pursuing these commitments. Instead, it will continue to develop community partnerships that support hōʻihi (respect) by all who visit, work, and engage in cultural practices on Maunakea. It will also continue to support the integration of Hawaiian knowledge and ways of knowing into our research frameworks, educational programs, and CMP actions. Increasing the engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in stewardship is a primary means for broadly sharing the many lessons Maunakea has to offer our community, and UH will proactively seek the funding and other support needed to do that.

1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY

Referred to as the “Astronomy Goal,” it entails UH endeavoring to maintain its and the Maunakea Observatories’ (MKOs) status as world leaders in astronomy. Maunakea is an extraordinary site
for ground-based astronomical observations, arguably the single best site on Earth. This was what first brought UH to Maunakea and allows UH to support stewardship of the mauna, provide a range of benefits to the community, and enhance our educational outreach and offerings.

The astronomers who conduct research with the existing Maunakea astronomy facilities, in partnership with UH, are world-leading sources of scientific knowledge about the Universe, and UH seeks to ensure the continuation of astronomy on Maunakea for years to come so that its students, faculty members, and associated scientists have the greatest opportunity to participate in research that is critical to fully understanding humanity’s place in the cosmos. UH’s efforts will enable Maunakea to continue to be a place where researchers from diverse cultures and institutions collaborate and extend the boundaries of discovery. UH is confident this goal can be achieved while reducing the impact from astronomy facilities, including reducing the number of facilities in the MKSR, so long as the area is administered in a way that allows existing facilities to be modified to accommodate changing technologies or the sites are recycled for use by more advanced astronomy facilities from time to time.

Objectives under the Astronomy Goal include:

- Facilitate UH’s attraction and retention of leaders in the field of astronomy by providing continued access to their own and their partners’ facilities on Maunakea.
- Maintain UH’s leadership position in astronomy on Maunakea through its cooperative agreements with the MKOs and its own facilities.
- Facilitate an appropriate mix of observational and support facilities that are able to help answer important scientific questions.
- Support diverse representation within astronomy by encouraging support for a broad range of students, researchers, and staff seeking to learn and work on Maunakea.
- Maintain the physical and administrative environment necessary to continue cutting-edge astronomy on Maunakea.
- Protect astronomical viewing resources by avoiding, minimizing, or mitigating land uses that directly conflict with astronomical research.
- Guide the location, character, size, mass, color, and other physical attributes of astronomical facilities in ways that minimize potential adverse effects on the environment while optimizing their productivity.
- In partnership with the MKOs, foster community relationships that strengthen engagement and contribute to building a shared vision for astronomy on Maunakea.

This goal and associated objectives recognize that Maunakea’s astronomical viewing conditions are a resource worthy of preservation and utilization and that observations made using Maunakea astronomy facilities consistently generate widely recognized discoveries that are beneficial to all humankind. UH will continue supporting the vision of a knowledge-based economy sought by the
elected leaders of the State and County for more than 50 years, and that continues to be a part of Hawai‘i’s economic future.9

1.4.3 DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES

Referred to as the “Education Goal,” it entails UH working to diversify its educational pursuits and to expand research opportunities on Maunakea beyond astronomy for UH, for partner institutions and groups, and for the broader community. In addition to being an exceptional site for astronomy, Maunakea’s landscape, resources, and infrastructure provide opportunities for researchers in a myriad of physical and social sciences, including indigenous knowledge. UH will actively encourage and invite researchers and students to use its facilities at Halepōhaku in support of their research and teaching so that they may learn from the natural, cultural, and social environment within and surrounding the UH Maunakea Lands.

Specific objectives under the Education Goal are to:

- Maintain the physical and administrative environment necessary to grow research and learning in diverse fields on Maunakea.
- Foster collaborations between leaders and researchers from diverse fields, cultures, institutions, and the community to enrich and extend the knowledge gained from work on Maunakea though multidisciplinary research and cross-cultural discourse.
- Facilitate the foregoing by repurposing the Halepōhaku facilities as a Multidisciplinary Field Station to support a broader range of education and research.
- Impart an understanding of Maunakea to all who work and visit there of the historical, cultural, and environmental context of the mauna, so that they may see the mauna as a teacher and understand their role in contributing to the stewardship of this special place.

The Education Goal and associated objectives recognize that the UH System is the state’s primary higher education provider and that creating greater opportunities for educational and research programs on Maunakea can benefit and unite the System’s three universities, seven community colleges, and community-based learning centers across the state. Further, these Maunakea-specific objectives support UH’s overall efforts to expand its support of the science- and knowledge-based economy that is sought by Hawai‘i’s elected leaders.9

While UH will continue its strong support for and involvement in astronomy on Maunakea, it will simultaneously strengthen its support of research and educational programs in indigenous, natural, and social sciences. UH also recognizes that kanaka maoli’s (Native Hawaiian) timeless knowledge regarding Maunakea, reflected in their observations shared in mo‘olelo (narrative story) and mele (song or chant), are no less significant than other knowledge, and these will be

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9 In 1964 the Hawai‘i State Legislature passed Senate Concurrent Resolution 16 (SCR 16) stating that the “State of Hawai‘i and its citizenry are most desirous and willing to co-operate and aid in the promotion of our nation’s space program and research to the benefit of the County of Hawai‘i, the state and the nation.”

The Hawai‘i 2050 Sustainability Plan (2021) and Hawai‘i Statewide Comprehensive Economic Development Strategy (2016), which draw on HRS § 226-10, 226-103, and 226-108, emphasize that it is the State’s policy to promote economic diversification and innovation to retain a workforce educated in science, technology, engineering, and mathematics (STEM).
acknowledged, protected, and expanded within UH’s management and curriculum. UH will incorporate Maunakea into its programming across departments within UH Hilo and across schools in the UH System.

1.4.4 SEEK BALANCE AND MUTUALLY BENEFICIAL RELATIONSHIPS AMONG THOSE WHO COME TO MAUNAKEA

Referred to as the “Balance Goal,” it involves seeking balance and mutually beneficial relationships among those learning from, practicing on, and visiting Maunakea. UH firmly believes that astronomy, education, cultural practices, science-based environmental management, research, and responsibly conducted public activities can coexist. There will inevitably be a need for trade-offs and consideration of impacts to the environment, but UH believes these can be done in ways that advance mutual respect and sustainable stewardship.

Specific objectives under the Balance Goal are as follows:

- Maintain a physical and administrative environment that considers, provides for, and invites all manner of exploration, discovery, learning, cultural practices, and science on the mountain.
- In partnership with the Native Hawaiian community, determine the feasibility of, and develop plans for, establishing a hālau for ceremony and education on the mauna.
- Offer opportunities for cultural, educational, scientific, and recreational activities and programs that are consistent with enhancing human health and safety, promoting proper stewardship, and preservation of resources.
- Seek opportunities for mutually respectful and beneficial collaboration among cultural practitioners, educators, and scientists.
- Involve community members and organizations in planning, policy development, and evaluation of UH’s stewardship of Maunakea.

The Balance Goal and associated objectives acknowledge that a wide range of purposes and practices are possible and that the cultural, educational, and scientific value of Maunakea extends far beyond astronomy. UH will continue to provide for and integrate cultural practitioners, scientists, educators, and the public through its collaborative, cooperative, and community-based stewardship program.

1.5 STRATEGIES

To achieve the goals and objectives set forth above, UH will pursue the following strategies with respect to its Maunakea Lands:

1. Involve the community in the decision-making process early and often through the CMS volunteer advisory groups (e.g., Mauna Kea Management Board (MKMB), Kahu Kū Mauna Council (KKM), and Environment Committee (EC)) and diverse community engagement and outreach activities.

2. Seek diverse community representation on the CMS volunteer advisory groups.
3. Strive to build community confidence and trust so that UH may be provided the opportunity to continue and improve its management, stewardship, and research beyond 2033.

4. Allow the establishment of only those new facilities that address the Phase 1 screening and assessment criteria (Section 6.2), including (i) consistency with the mission, vision, goals, and objectives of this Master Plan; (ii) consistency with the CMP; (iii) adequately benefit from and/or increase our understanding of Maunakea’s conditions, landscape, and resources; (iv) consistency with applicable rules regulations, and permits; and (v) avoid, minimize, or mitigate adverse effects to Maunakea’s resources.

5. Continue to sustainably steward Maunakea through the implementation of the CMP and this Master Plan, including ecosystem and habitat restoration efforts.

6. Manage access to the UH Maunakea Lands in a phased and adaptive manner that (i) protects and conserves the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manages activities to minimize potential adverse effects on the landscape and resources; (iii) protects public health and safety; and (iv) preserves the feeling of wilderness and sanctity in the summit region.

7. Work with the Native Hawaiian community to identify measures, policies, and facilities that will further reduce adverse effects to the cultural landscape and cultural practices and perpetuate ‘ike Hawai‘i (traditional knowledge) and nohona Hawai‘i (traditional practices).

8. Decommission a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033, and does not exceed that number throughout the remainder of the time covered by this Master Plan.

9. Execute agreements between UH and the entities that operate Maunakea astronomy facilities so that the parties to those agreements collectively provide their fair share of financial support and other resources needed to (i) provide public benefits for the community and state, with a focus on the Native Hawaiian community; (ii) implement the CMP and this Master Plan; (iii) provide education regarding Maunakea’s cultural landscape and natural resources; (iv) support the UH astronomy programs; and (v) maintain necessary infrastructure.

10. Facilitate over the 20-year period of this Master Plan: (i) the development of an astronomical facility on Astronomy Site 13, and (ii) the modification or recycling of up to three (3) existing astronomy facilities in the MKSR.

Strategy 10 recognizes that there is some uncertainty regarding the Thirty Meter Telescope (TMT) project, which is permitted for Astronomy Site 13. Mauna Kea Access Road was blocked from July 16 through December 26, 2019, and construction of the TMT project was paused indefinitely. The U.S. National Science Foundation (NSF) is now considering funding that project; their funding would trigger federal review of the project prior to construction restarting. Should the TMT project not proceed on Maunakea, this Master Plan will continue to guide UH decisions on Maunakea including the future of Astronomy Site 13.

11. Actively pursue ideas and interest within and beyond the UH System for (i) the establishment of educational pursuits and curriculum that would utilize Maunakea as a
learning laboratory; and (ii) ways the facilities, interactions, and resources on Maunakea can be leveraged to provide for and support those diverse educational opportunities.

12. Repurpose substantial portions of Halepōhaku as a Multidisciplinary Field Station that supports diverse environmental and cultural educational activities.

13. Transition from temporary and ad hoc visitor facilities and uses (e.g., portable restrooms and undesignated parking) in the MKSR to appropriately sized, dedicated facilities for these purposes.

14. Develop flexible, minimal-impact night sky viewing capabilities at Halepōhaku that support UH Hilo education programs and community outreach.

15. Facilitate the conversion of all wastewater facilities in the MKSR to zero-discharge per the terms of new MKO operating agreements being negotiated which are anticipated to be in place prior to 2033.
2 BACKGROUND AND CONTEXT

2.1 PURPOSE OF THIS MASTER PLAN

The purpose of this Master Plan is to guide UH’s consideration and prioritization of proposed land uses within the UH Maunakea Lands in a manner that is consistent with UH’s mission and purpose, promotes its vision for the lands that it manages, and contributes to the achievement of UH’s goals and objectives. Specifically, this Master Plan is intended to guide:

1. The planning, siting, and design of new facilities and improvements;\(^{10}\)
2. Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
3. Decisions that UH may be involved in regarding which existing astronomy sites will remain operational.

It consolidates and clarifies UH’s use and development policies for the subject lands and is intended to guide UH’s decision-making related to them over a 20-year period.\(^{11}\)

As stressed throughout this document, this Master Plan is intended to work in concert with, not to replace or override, the CMP. The CMP will remain the guiding document with respect to management of the cultural landscape and natural resources on Maunakea while this Master Plan speaks to the specific nature of the land uses that UH anticipates will be discontinued, continued, or established. The provisions of this plan:

- Are consistent with commitments UH has made regarding facility siting, decommissioning, and other matters, and comply with the provisions of existing permits, leases, and subleases that DLNR and UH have granted.
- Provide clear guidelines for those proposing new or modified uses and facilities within the UH Maunakea Lands.
- Support UH’s efforts to protect and conserve natural and cultural resources and processes, which are a function of its implementation of the CMP.
- Promote public health, safety, and welfare.
- Are consistent with applicable components of the CMP.

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\(^{10}\) Proposed uses within UH Maunakea Lands that disturb the land, such as installing, recycling, modifying, or decommissioning facilities, structures, infrastructure (e.g., roads and utilities), and other improvements fall under the definition of “land use” under Hawai‘i Administrative Rules (HAR) § 13-5-2, Conservation District.

\(^{11}\) UH presently holds a General Lease from BLNR under which it grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world class facilities and research coordination. The General Lease expires at the end of 2033, before this Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the MKSR, whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.
UH will evaluate all new proposals for facilities and uses for their consistency with this Master Plan. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering but has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. Any future programs or projects are also subject to additional applicable government approval(s) and environmental review(s).

Proposed facilities and developments within UH Maunakea Lands, which will be concepts when first proposed to UH, will be evaluated using the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal has the potential to adequately:
  - Benefit from the conditions present within the UH Maunakea Lands;
  - Increase our understanding of Maunakea’s resources;
  - Avoid, minimize, or mitigate reasonably foreseeable adverse impacts to Maunakea’s resources;
  - If applicable, employ world-class technology, research techniques, and design;
  - If applicable and based on input from experts in the proposed field of study, the proposal addresses critical needs and has a high likelihood of contributing important information over its design life; and
  - Honor and benefit the Hawai‘i Island community, particularly with regard to their educational, cultural, social, environmental, and economic needs.
- Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

2.2 LAND AREA OVER WHICH THIS MASTER PLAN APPLIES

This Master Plan covers “Mauna Kea lands,” which are subsequently referred to as “UH Maunakea Lands.” As defined under Hawai‘i Revised Statutes (HRS) § 304A-1901, the term “UH Maunakea Lands” means:

… the lands that the University of Hawaii is leasing from the board of land and natural resources, including the Mauna Kea Science Reserve, Hale Pohaku, the connecting roadway corridor between Hale Pohaku and the Mauna Kea Science
Reserve, and any other lands on Mauna Kea that the University of Hawaii leases or over which the University of Hawaii acquires control or jurisdiction.

The UH Maunakea Lands presently consist of two parcels that UH leases and the portion of a third parcel over which UH holds an easement (Figure 2-1):

- Parcel TMK 4-4-015:009 via General Lease S-4191, which expires December 31, 2033. This parcel is 11,287.854-acre and is called the Mauna Kea Science Reserve (MKSR).
- Parcel TMK 4-4-015:012 via General Lease S-5529, which expires in 2041. This 19.261-acre parcel is known as Halepōhaku.
- Portion of parcel TMK 4-4-015:012, which is part of the Mauna Kea Forest Reserve, under a non-exclusive roadway easement. This easement, which encompasses 70.798 acres, contains the roadway between the two leased parcels listed above.

Over the life of this Master Plan the specific area that falls within UH Maunakea Lands may change. This Master Plan is only binding on those UH Maunakea Lands that remain under the authority of UH. For example, if UH Maunakea Lands were reduced, this Master Plan would govern only those lands still authorized for use by UH, without the need to amend this Master Plan.

The UH Maunakea Lands are considered “ceded” lands. Ceded lands are those crown, public, and government lands that were once held by the Kingdom of Hawai‘i. The Republic of Hawai‘i took control of these lands after the overthrow of the Hawaiian monarchy. The United States annexed Hawai‘i in 1898 and the Republic of Hawai‘i ceded 1.8 million acres of public lands to the Federal government. In March 2009, the United States Supreme Court noted that when Hawai‘i joined the Union in 1959 as the 50th state, the Federal government granted title to the ceded lands to the State.

These lands, together with the proceeds from the sale or other disposition and income there from, are held by the State as a public trust.

The State holds the ceded lands in a public trust for (i) the support of the public schools and other public educational institutions, (ii) the betterment of the conditions of Native Hawaiians, as defined in the Hawaiian Homes Commission Act, (iii) the development of farm and home ownership on as widespread a basis as possible, (iv) for the making of public improvements, and (v) the provision of lands for public use (The Admission Act Section 5(f)).
Figure 2-1: UH Maunakea Lands

Source: Planning Solutions, Inc. (PSI)
2.3 MASTER PLAN IMPLEMENTATION

This Master Plan will be implemented through the governance structure approved via a motion by the BOR. The BOR delegated responsibility for the governance and management of UH Maunakea Lands to UH Hilo, which is advised by the Mauna Kea Management Board (MKMB) and Kahu Kū Mauna Council (KKM). UH Hilo has, in turn, created the Center for Maunakea Stewardship (CMS) to administer the lands. This governance structure is established through BOR motions and is outside the scope of this Master Plan. The governance structure at the time this plan was adopted is illustrated in Figure 2-2. The structure may be modified from time to time over the life of this Master Plan without requiring this plan to be amended.

Figure 2-2: CMS Governance Structure, Established in 2020

Notes: * Shown here for descriptive purposes. Organization of these functions to be finalized by Director of Stewardship Programs. The structure may be modified from time to time over the life of this Master Plan without triggering a need to amend this plan.
Source: CMS

UH’s General Lease No. S-4191 for the Mauna Kea Science Reserve expires December 31, 2033; UH is seeking a new land authorization, but there is no guarantee one will be awarded prior to the

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12 Under the 2000 Master Plan, MKMB was "encouraged to establish special committees on culture, environment and education, as needed, to assist it in its functioning." A long active, and currently active, special committee is the Environment Committee, which provides expertise to MKMB on environmental issues.
expiration of the General Lease. If UH does not obtain a land authorization that allows for its management and use of the UH Maunakea Lands beyond 2033, then under the General Lease UH must surrender and deliver possession of the land to BLNR and any improvements on the lands must be removed or disposed of by UH or, with the approval of the BLNR chair, improvements may be abandoned in place. Once the lands under the General Lease are surrendered, among other possibilities, BLNR and the Governor may consider issuance of a new entitlement (whether by lease, executive order, or other authorization) to UH or another entity. The Mauna Kea Working Group, created by House Resolution No. 33, H.D. 1 in 2021, issued a report during the development of this Master Plan entitled, *He Lā Hou Kēai Ma Mauna a Wēkea: A New Day on Mauna a Wākea*. The report discusses the creation of a new entity. UH’s response to the Working Group’s report is included in Volume 2. However, unless and until such a change occurs, the provisions of this Master Plan will guide land use decisions on Maunakea.

### 2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS

The only active plans relevant to UH decision-making regarding its Maunakea Lands are: (i) this Master Plan, which is approved and adopted by the BOR; and (ii) the CMP, which is approved and adopted by the BOR and the BLNR. This Master Plan supersedes all previous Master Plans.

This Master Plan does not replace the CMP, which may be amended from time to time. On the contrary, it and the CMP are consistent with and complement one another and are intended to be implemented together. All the uses and facilities that are envisioned in this Master Plan can be designed and implemented so that they are fully consistent with the management actions described in the CMP.

This Master Plan addresses the planning, siting, and design of new facilities and significant material changes to existing facilities. The CMP addresses management of activities and resources. Examples of the differences between the elements addressed in the two plans are shown in Table 2-1. Specific information concerning recreational, commercial, and astronomy activities are presented in subsections 2.4.1 through 2.4.3.

#### Table 2-1: Examples of Distinction between Master Plan and CMP Content

<table>
<thead>
<tr>
<th>Master Plan</th>
<th>CMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• New uses/facilities within the UH Maunakea Lands</td>
<td>• Management actions</td>
</tr>
<tr>
<td>• Exterior modification of astronomy facilities</td>
<td>• Natural resource management</td>
</tr>
<tr>
<td>• Recycling of astronomy sites</td>
<td>• Cultural resource management</td>
</tr>
<tr>
<td>• Roadway improvement/modification</td>
<td>• Recreational activity management</td>
</tr>
<tr>
<td>• Facility design standards</td>
<td>• Access management procedures</td>
</tr>
<tr>
<td>• Project review process</td>
<td>• Commercial tour management</td>
</tr>
<tr>
<td></td>
<td>• Decommissioning and site restoration process</td>
</tr>
</tbody>
</table>

#### 2.4.1 RECREATIONAL ACTIVITIES IN THE PLANS

Management of recreational activities is addressed in the CMP and in Hawai‘i Administrative Rules (HAR) Chapter 20-26, *Public and Commercial Activities on Mauna Kea Lands* (the UH Maunakea Rules or HAR Chapter 20-26). This includes activities such as hunting, hiking, and snow play. If UH or another party seeks to develop new facilities that support recreational activities, such as a new trail or parking lot, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.
2.4.2 Commercial Activities in the Plans

Management of commercial activities is addressed in the CMP and HAR Chapter 20-26. This includes visits to the UH Management Area by permitted tour companies and film production activities. These activities utilize existing facilities (e.g., roads and parking areas) and do not generally result in the development of new facilities or related land uses. If UH or another party seek to develop new facilities that support commercial activities, such as parking spots for stargazing, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.

2.4.3 Astronomy Facility Decommissioning and Site Restoration in the Plans

As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR should a new land authorization allow for the continuation of astronomy on Maunakea beyond the end of the current lease. This Master Plan addresses how astronomy facilities that will continue beyond the end of 2033 will be identified (Section 4.3.2.2 and Appendix E); those facilities that will not continue beyond the end of 2033 will need to be decommissioned before the end of 2033. The CMP provides for the site decommissioning process to be followed once an astronomical facility decides to cease operation. Specific steps related to decommissioning a facility and the restoration of the astronomy site on which it was erected, if that is the path selected, are outlined in the CMP.13

2.5 Capital Improvement Approvals and Funding

This Master Plan provides a framework within which to consider the concepts discussed and also future proposals that could achieve the same goals and objectives of this Master Plan. The implementation of the capital improvements (the facilities) envisioned in this Master Plan will require additional planning and then investments. This Master Plan does not make any final decisions on any facilities or land uses. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering and/or may be proposing but which it has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. There are many ways to contribute to achieving this plan’s goals; the facilities and projects mentioned in this plan are but one concept of how UH and other entities, e.g., astronomical research organizations, may proceed. All facilities and land uses suggested herein, or that may be considered in the future, may need additional applicable government approval(s) and environmental review(s).

Investments in and funding for facilities on Maunakea typically come for a variety of partners. Similarly, operating and management resources are derived from a wide variety of sources. It is the astronomy facilities that provide significant resources, not just to operate and maintain their facilities, but to implement the CMP and operate and maintain shared infrastructure, such as the Mauna Kea Access Road and the Visitor Information Station. Many of the astronomy facilities on

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13 Decommissioning involves the facility owner selecting and implementing (i) one of two levels of facility (infrastructure) removal, and (ii) one of three levels of site restoration.
Maunakea are multinational partnerships, and any new astronomy facilities (e.g., modification and recycling projects) are likely to be multinational partnerships.

UH will continue to seek innovative methods to fund non-astronomy capital improvements and the operation and maintenance of public areas in the UH Maunakea Lands. The astronomy facilities and UH will provide certain resources while other potential resources include (i) commercial tour and film fees, (ii) entrance fees for non-Hawaiʻi residents,14 (iii) federal, state, and/or private grants, (iv) federal and/or state expenditures, and (v) other opportunities.

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14 As outlined elsewhere in this Master Plan (Sections 3.1.1 and 5.3), UH’s intent is not to increase the number of visitors to the UH Maunakea Lands through the implementation of this Master Plan. In fact, the intent is that the number of vehicles (and thereby people) present at any one time would be less than the numbers present during peak periods prior to 2020; 2020 was anomalous due to the significant changes during the COVID-19 pandemic. Those that do enter may be required to pay a fee (HAR § 20-26-6).
Part 2: Physical Plan
INTRODUCTION

Part 2 of this Master Plan discusses the facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Part 1 of this Master Plan provides important context for understanding the scope of facilities and land uses discussed in Part 2. Part 3 of this Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to the framework outlined in this Master Plan.

The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives as outlined in Part 1, Chapter 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands. The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. This Master Plan also includes a framework for UH to consider proposals not identified in this Master Plan (see Part 3).

Proposals considered land uses will first need to be reviewed and approved by UH (see Part 3, Chapter 6 of this Master Plan). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring the appropriate type of Conservation District Use approval.

Proposed facilities and developments within UH Maunakea Lands, which will be concepts when first proposed to UH, will be evaluated using the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).

15 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

16 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled “Public and Commercial Activities on Mauna Kea Lands” and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP.

17 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
• Consistency with the CMP and promotion of resource conservation and sustainability.

• Extent to which the proposal has the potential to adequately:
  - Benefit from the conditions present within the UH Maunakea Lands;
  - Increase our understanding of Maunakea’s resources;
  - Avoid, minimize, or mitigate reasonably foreseeable adverse impacts to Maunakea’s resources;
  - If applicable, employ world-class technology, research techniques, and design;
  - If applicable and based on input from experts in the proposed field of study, the proposal addresses critical needs and has a high likelihood of contributing important information over its design life; and
  - Honor and benefit the Hawai‘i Island community, particularly with regard to their educational, cultural, social, environmental, and economic needs.

• Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

An overarching requirement for any proposal is outreach to impacted communities and interested persons, including Native Hawaiian practitioners, the Hawai‘i Island community, and existing users.

The following Part 2 chapters discuss the facilities and developments that UH believes may occur on UH Maunakea Lands over the period of this Master Plan by area and topic.

The facilities and land uses identified and discussed in this Master Plan are possible future programs and projects that UH is considering but has not approved, adopted, or funded. The approval of this Master Plan by the UH Board of Regents (BOR) does not constitute the approval or permitting of any land use discussed herein.
3 HALEPŌHAKU

This chapter addresses Halepōhaku (TMK No. (3) 4-4-015:012), which is officially named the Onizuka Center for International Astronomy but is now more commonly known as Halepōhaku. This 19.261-acre parcel, which ranges in elevation from ~9,100 to ~9,300 feet above sea level on the southern flank of Maunakea, is home to the facilities that UH uses to manage and support activities in Maunakea’s high-elevation areas. Figure 3-1 illustrates the facilities that are presently located there.

The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and implementation of the CMP. Those facilities contribute significantly to the achievement of UH goals and objectives. Specifically, Halepōhaku facilities will continue to house support services, be the basepoint for stewardship activities, provide office space for entities with activities on the mountain, and provide short-term lodging for individuals whose work calls for them to spend more than short periods in the summit area. UH intends to repurpose and reassign existing underutilized facilities to support expanded education and research focused on Maunakea resources beyond astronomy. The range of education, research, and cultural activities that could benefit from the resources and conditions at Halepōhaku is broad.

3.1 PLANNING CONTEXT

3.1.1 BACKGROUND

The UH-developed facilities at Halepōhaku were originally designed to serve three purposes: (i) as a mid-elevation support center for astronomy activities situated in the MKSR; (ii) as a central point for management of astronomy facilities and support services on Maunakea; and (iii) as a day-use destination point for visitors where they could learn about astronomy, natural resources, and the cultural landscape. These facilities were designed and constructed to accommodate the amount and type of activity that could be foreseen in the closing decades of the 20th century, and they have served their purpose well. However, technological changes in the way astronomical observations are made, the evolution of visitation on the mountain, and the greatly increased interest in learning about and sustainably managing Maunakea’s cultural landscape and natural resources mean that adjustments are needed.

While some of the Halepōhaku facilities, principally those at the MKSS baseyard (Figure 3-1), continue to be appropriately sized and configured for current and anticipated needs, others are not. Some, primarily the Visitor Information Station (VIS), are too small to meet demand if visitation continues as it has in the past, i.e., with large numbers of visitors arriving in small groups in private vehicles. In addition, the size of the dormitories and common area exceed what is needed to support astronomy and management in the foreseeable future. Finally, the existing spaces are not configured to accommodate the diversified educational activities that are envisioned. Additional detail regarding this follows below.
Figure 3-1: Halepōhaku Overview

Source: PSI
VIS. The VIS building is woefully inadequate to support the number of visitors it has been called upon to serve in recent years. Beyond a continued fascination with high-elevation locations, it is believed that contributing factors include an increase in out-of-state travel to Hawai‘i, an increase in the number and mobility of Hawai‘i Island residents, easier access to Maunakea brought about by the completion of the Daniel K. Inouye Highway, the Kilauea eruption temporarily closing other visitor attractions, and social media. Whatever the cause, there is no evidence that the number of persons, both Hawai‘i Island residents and off-island visitors wishing to experience the mountain, will decrease; if anything, the demand is likely to grow.

ʻImiloa on the UH Hilo campus is another facility that serves as an astronomy interpretive center and provides information about the cultural and natural history of Maunakea. ʻImiloa offers education opportunities related to those topics across a wide age range, including young students who are encouraged to consider the health risks before visiting the higher elevations of the UH Maunakea Lands.

Mid-Level Support Facilities. In contrast to the VIS, the facilities that were developed in the 1980s to accommodate management and astronomy personnel are now over-sized relative to that demand. There are several reasons for this, but the two principal ones are the advent of remote observing as a practical alternative to working at the summit and the ease of commuting to the astronomy facilities from either Hilo or Waimea via the Daniel K. Inouye Highway (Saddle Road). The trend toward remote observing, the decommissioning of some facilities in the MKSR, and a likely continuing shift toward remote operation of telescopes will likely further decrease demand for lodging, meals, and office space by astronomy facility personnel. The exact level of such usage is difficult to predict, and it will be variable. Some personnel will always need to work at the astronomy facilities, and they will continue to use the Mid-Level Support Facilities as a place to rest, eat, work, and sometimes sleep. There will also continue to be short-term projects at the astronomy facilities, and the Mid-Level Support Facilities will need surge capacity to support those. However, based on current and past usage, UH’s expectation is that no more than a third of the space designed for these purposes will be required going forward.

Over the last several decades, the Mid-Level Support Facilities have increasingly been utilized by stewardship personnel (e.g., Rangers and other CMS personnel) as a place to work and store their equipment and materials. Since the approval of the CMP, the level of management necessary to maintain safety and minimize impacts to the cultural landscape and natural resources has consistently increased. UH has learned many lessons regarding its stewardship obligations and is dedicated to continual improvement. As the use of these facilities by astronomy personnel decreases, their use by stewardship personnel will increase, but at a much slower rate.

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18 The Mid-Level Support Facilities are currently designated by CDUP 1430 (condition 25) for the exclusive use of astronomy facility staff and those whose work, research, or provide technical support directly related to activities in the MKSR.

19 Remote operation is when the telescope operators work remotely. The telescope operators are the people that open and close the dome, manipulate the telescope and its instruments to collect the observational data requested by the astronomer. Astronomers have been using "remote observing" for years; remote operation is being developed and is expected to become more prevalent over the period of this Master Plan.

20 Surge capacity would support, for example, temporary construction, maintenance, installation of new instruments, or repair projects. Personnel involved in long-term construction or decommissioning projects are not expected to regularly stay at Halepōhaku.
Educational Facilities. At present, what public educational activity there is at Halepōhaku occurs at the VIS, and it is focused on day-trippers, many of whom reside off-island, and volunteers. The work that has been done on this Master Plan has revealed a need and desire to greatly expand the extent to which educational programs based on Maunakea’s cultural landscape and natural resources are made available to the public.

3.1.2 LIMITATIONS ON NEW DEVELOPMENT AT HALEPOHAKU

3.1.2.1 Critical Habitat

Halepōhaku is within the federally designated critical habitat for the endangered Palila (*Loxioides bailleui*) (Figure 3-2). Palila are only found on the island of Hawai‘i, with over 95 percent of the population restricted to the southwest slopes of Maunakea. They occur only in the dry māmane and māmane-naio forest between 6,500- and 9,250-foot elevation. Māmane (*Sophora chrysophylla*) is endemic to the Hawaiian Islands and are present throughout Halepōhaku. Māmane is not listed as threatened or endangered but is a critical food source for the Palila. Palila have been observed at Halepōhaku occasionally but are not frequently present and Halepōhaku is not considered preferred nesting habitat for Palila due to the relatively constant human activity.

Figure 3-2: Federally Designated Critical Habitat for Palila

Source: State GIS
Any development at Halepōhaku on previously undisturbed land that results in the removal of māmane trees could cause an adverse impact to the Palila’s designated critical habitat and thus would be minimized and mitigated. CMS has an ongoing program to propagate and outplant māmane trees within Halepōhaku and takes additional actions to improve the habitat for Palila and other native species, but it is too early to evaluate how successful that program will be. DLNR, which is leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.

3.1.2.2 Cost Considerations

Because of its elevation and isolation, it is costly to build and operate facilities at Halepōhaku. Factors that contribute to high costs include: (i) all water and other supplies must be trucked up the mountain; (ii) there is no central wastewater treatment system; and (iii) all maintenance and food service must be accommodated by UH-provided facilities and personnel. The high construction and operational costs make the development of non-mission critical facilities at Halepōhaku unattractive.

3.1.3 UH COMMITMENTS REGARDING USE OF HALEPOHAKU

In view of the limitations outlined above, UH will adhere to the following precepts in making decisions related to facilities, developments, and disturbances at Halepōhaku:

- Existing structures will be repurposed and utilization of existing space maximized before new facilities are proposed.
- If additional facilities are proposed, they will be sited in previously disturbed areas devoid of native vegetation to the maximum extent practicable.
- The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo New Educational Telescope (NET) (Section 3.3). The only other telescopes that will regularly be present at Halepōhaku will be small portable stargazing telescopes that are set up and then removed and stored after use.
- UH will manage vehicular access in a way that forestalls the need to expand parking within Halepōhaku beyond the locations where it presently exists.
- UH will continue its habitat restoration efforts within Halepōhaku and utilize Halepōhaku to assist and/or support conservation efforts by others on the upper slopes of Maunakea to contribute to the State’s pledge to conserve, restore, or grow 100 million trees (DLNR, September 25, 2021).

3.2 MKSS BASEYARD

As illustrated in Figure 3-1, the uppermost part of Halepōhaku contains the MKSS baseyard, which contains structures, equipment, and storage areas utilized for logistical services and support. These are used to maintain the Mauna Kea Access Road above Halepōhaku and in support of operations of other Halepōhaku facilities. The MKSS baseyard provides sufficient space to accommodate MKSS’ current and forecast needs.
Because the size and location of the existing baseyard facilities are deemed by MKSS to be adequate for the foreseeable future, no fundamental changes to it are likely to be proposed during the life of this Master Plan. However, refurbishment, updating, and modest enhancements that would improve the function and/or extend the operating life of some of the existing facilities were identified during the master planning process and may be undertaken over the term of this Master Plan. Examples include:

- Upgrading fuel storage by July 15, 2028, to comply with new regulations requiring double-walled tanks.
- Paving portions of the baseyard that now have only a gravel base-course cover to improve efficiency and safety while also reducing the potential for the establishment of invasive species.
- Improving portions of the baseyard area, currently in limited use, for the storage of material and equipment associated with resource maintenance and management on Maunakea and making minor improvements (e.g., vegetation clearance or rough grading) needed to allow that.

3.3 UH HILO NEW EDUCATIONAL TELESCOPE

3.3.1 BACKGROUND

The Department of Physics and Astronomy at UH Hilo offers two programs, the Bachelor of Science degree in Astronomy and Bachelor of Arts degree in Physics. Both degrees have their own mission statements, which are closely aligned with the mission of UH Hilo at large. The UH Hilo astronomy program aims to: (i) develop the science knowledge and analytic skills of students, whether they be majors or not, through a focus on the field of astronomy and (ii) instill an appreciation of science, particularly astronomy, in students. The programs provide students with transferable skills so they can excel in a wide range of STEM-related fields. UH Hilo presently offers astronomy courses every semester that are designed to build expertise in data acquisition and analysis and to provide hands-on experience handling the necessary hardware and software. Skills acquired through both programs position graduates for operations-related employment at the Maunakea Observatories (MKOs), employment in other STEM-related fields, or, for those who are committed to making a career of advanced research in the field of astronomy, graduate-level education in astronomy. Five of the courses have laboratory components that would use a telescope if it were available, and even more might be initiated if the telescope is available at Halepōhaku; educational material (e.g. celestial object pictures or spectra) produced during these laboratories could also be used during lecture-based courses. At one time, facilities at Astronomy Site 9 (Hōkū Kea) were used for this purpose, but those became unusable in 2006. UH Hilo has since acquired a state-of-the-art PlaneWave Instruments CDK700 (PIC700) telescope system, a suite of instruments, and a AstroHaven “clamshell” 18-foot dome for the laboratories. With an aperture of 0.7 meter (28 inches) and a focal ratio of F/6.5 (Figure 3-3), the PIC700 is currently stored in a room on the UH Hilo campus. While it can be/is being used to train students on the purely mechanical aspects of telescope operations, at its current location it cannot be used to train students in real observing sessions.
3.3.2 NEW EDUCATIONAL TELESCOPE AT HALEPŌHAKU

Both programs described above have identified a need for access to a working modern, small-aperture telescope on Maunakea as an important component of their desired educational programs. After an extensive search for a suitable site for the New Educational Telescope (NET) (about 16 different locations were considered), UH Hilo identified an area at Halepōhaku as an excellent location for such an instrument. Skills acquired through the operation of such an educational telescope, along with visits to astronomy facilities in the MKSR, would better position the students for employment at the MKOs and elsewhere in the world astronomical research community. In addition, faculty and students at both UH Hilo and UH Mānoa would use it for laboratory courses and research projects. An educational telescope at Halepōhaku could also be employed for outreach events and for programs involving the Big Island community that would help UH build a stronger bond between astronomy on Maunakea and the community. It is expected that telescope time will be made available to students and the community interested in astronomy or for educational purposes.

The UH BOR Resolution 19-03 dated November 6, 2019 (Appendix D), directed that Astronomy Site 9 (Hōkū Kea) be decommissioned and that “…a new educational telescope facility for the University of Hawai‘i at Hilo shall be established at Halepōhaku or elsewhere.” UH’s present intent is to site the educational telescope within Halepōhaku, and it has commissioned a planning and design team for the proposed NET project that will lead the project review process, prepare an
HRS Chapter 343 environmental document, and prepare a Conservation District Use Application (CDUA) for the facility that UH will submit to DLNR.

More specifically, UH Hilo has identified one primary and one backup location at Halepōhaku to date. The primary location is adjacent to the smallest of the four dormitories (Dormitory A) in the upper portion of Halepōhaku (Figure 3-4). This site offers limited light pollution, good sky visibility, and is near power and communication infrastructure. The site has been tested using a smaller, portable telescope and was found to be suitable. An already identified backup location is land adjacent to one of the four Subaru-built construction cabins in the lower portion of Halepōhaku. This site is also believed to be suitable, but less so due to light pollution from passing vehicles on the main road. The proposed structure is comparatively much smaller than the astronomy facilities on the MKSR, with a profile that is no taller than existing Halepōhaku structures and taking up a small portion of a previously disturbed area. Additional and more refined alternatives may be identified as UH coordinates with the community as part of the planning and design team’s work.

**Figure 3-4: Conceptual Illustration of NET by Dormitory A**

Source: [http://hokulea.uhh.hawaii.edu/news.html](http://hokulea.uhh.hawaii.edu/news.html)

UH Hilo has passed the following NET milestones:

- In February, 2020, it displayed the PlaneWave 0.7-meter telescope at the ‘Imiloa Center. This was the first time that it was displayed to the public, and hundreds of persons stopped by, including many young people who experienced moving the telescope using the control interface.

- In mid-2020, a project was formally initiated by UH Hilo for the NET.

- In September, 2020, UH Hilo initiated a community outreach campaign regarding the possible installation of the NET. The effort included a virtual open house website, where
diverse pieces of information were presented and where members of the public could record their questions and comments.

An EA is currently being developed.

### 3.4 OTHER HALEPŌHAKU FACILITIES

As described in Section 3.1, there have been dramatic changes over the past two decades in demand for facilities at Halepōhaku. Moreover, further changes are anticipated as UH implements access management that is called for in the CMP and that has been discussed in previous planning documents. UH seeks to accommodate current and anticipated future needs by re-aligning usage of the existing facilities with limited physical modifications to yield better outcomes for those who come to Maunakea.

#### 3.4.1 Repurposing Overview

UH is deeply committed to diversifying research and educational opportunities on Maunakea to fields beyond world-class astronomy. UH seeks to engage scholars, students, and the public in a broad range of disciplines related to understanding, preserving, and enhancing the cultural landscape and natural resources of Maunakea. To support this broadened range of activity, UH envisions that portions of the facilities at Halepōhaku will evolve into an integrated “Multidisciplinary Field Station” that will support field studies and learning experiences across disciplines and will encourage opportunities for formal and informal collaboration and interaction. Beyond the educational benefit of field learning, the diverse educational and research programs sought would also increase the potential for applied research that would support and inform management actions called for in the CMP.

UH Hilo will be the lead UH campus for the broadened Halepōhaku mission. However, educational and research opportunities will be available throughout the UH System, and perhaps beyond. This will allow facility use (and associated costs) to be shared by multiple departments and schools within the UH System and perhaps others, together with the MKOs. Importantly, this broadened mission and facility repurposing is not intended to substantially increase the number of people entering the UH Maunakea Lands. An intended byproduct is that a broader segment of the community gains an understanding of and appreciation for Maunakea. Programs that utilize the facilities, including new education programs, will continue to be required to comply with the CMP and applicable rules, which specify that all who enter must receive an orientation.

The Maunakea astronomy community, as a key user and primary funder of the Halepōhaku facilities, will be a participant in this evolution. Existing services for the astronomy community will continue, including food, lodging, and office space capable of supporting surge-levels when necessary, but downsizing will almost certainly be undertaken given the reduced level of astronomy-related use of the mid-level support housing and related space. UH managers (i.e., Rangers, CMS staff, etc.) will similarly retain the office space and other facilities they need to manage UH’s activities on Maunakea. CMS will seek opportunities for interaction and synergy between users of the Halepōhaku facilities to enhance scholarship, education, and mutual understanding. CMS will coordinate with various user groups to identify and mitigate potential conflicts arising due to differing needs and desires.
The extent and specifics of the diversified educational programs are yet to be fully defined, but to achieve its goals and optimize the usage of facilities that it continues to operate and maintain, UH anticipates the need to reconfigure, modify, repurpose, and/or remove certain facilities at Halepōhaku. If the field station concept does not require all the underutilized existing facilities, UH would prefer that the unused facilities be removed and the environment restored rather than transfer them to the VIS to expand its offerings in a manner that would generate a greater number of visitors. Limited new facilities, such as the NET, may also be developed. CMS and UH Hilo will continue to seek input from the community and consider alternatives for the Multidisciplinary Field Station. Examples of possible repurposing concepts include:

- Expanding access to the “common building” and dorms (Figure 3-1) to non-astronomy faculty, researchers, students, and other UH-affiliated or -sponsored programs for food service, meetings, and overnight stays. It is envisioned that students from high schools age and older could utilize the lodging facilities while participating in resource-based educational programs.

- Repurposing existing facilities to accommodate classrooms, offices, laboratory facilities, and other Multidisciplinary Field Station needs.

- Repurposing the stone cabins (Figure 3-1) and associated water tanks to create additional space for visitor information and education and Ranger functions as well as water sources for conservation projects.

- Repurposing the construction cabins (Figure 3-1) to create additional space for visitor information and education and Ranger functions.

To the extent that re-purposing proves impractical, removal of some of the buildings may be appropriate.

### 3.4.2 Specific Projects

In addition to the general repurposing concepts discussed above, several specific proposals for projects at Halepōhaku have already been identified. They include, but are not limited to, the following:

- Grading and paving the currently unpaved parking area immediately to the west of the Halepōhaku “common building.” This may involve structural components and drainage components that incorporate lessons learned from similar infrastructure improvements at the VIS that were completed in 2019.

- Conducting habitat rehabilitation or restoration projects as called for in the CMP.

- Producing and outplanting native species as called for in the CMP.

- Erecting educational, safety, and interpretive signs as called for in the CMP.

- Improving pedestrian connectivity between existing and future trails in the neighboring Forest Reserve that are sanctioned by DLNR, the “common building,” stone cabins, VIS, and/or construction cabins.

- Building new facilities or adding to existing facilities to support (i) the Multidisciplinary Field Station, (ii) the VIS and stargazing, and (iii) access management.
In addition to those projects listed above within Halepōhaku, access management facilities may be placed along the access road adjacent to Halepōhaku. These facilities would likely occur outside the boundaries of Halepōhaku (TMK No. (3) 4-4-015:012), and so are discussed in Section 5.3.
4 MAUNA KEA SCIENCE RESERVE

This chapter lays out the land use plan for TMK No. (3) 4-4-015:009, the area known as the Mauna Kea Science Reserve (MKSR). It discusses all facilities and projects likely to be proposed in the MKSR that may be deemed land uses under DLNR’s Conservation District Rules, except those related to roadways, utilities, and managed access (which are discussed in Chapter 5).

UH expects there to be few new facilities developed within the MKSR over this Master Plan’s duration. Nearly all land uses will occur in previously disturbed areas and where facilities exist today. Very little new ground disturbance will occur within the MKSR over the 20-year period; the vast majority of the MKSR will remain wilderness. Excluding roads and utilities, less than half of one percent of the approximately 11,288-acre MKSR has been disturbed/developed.

This Chapter is divided into the following main parts:

- Section 4.1 presents the MKSR planning context.
- Section 4.2 discusses facilities and developments that UH expects will be needed to carry out its management responsibilities, ensure responsible stewardship, and facilitate public activities.
- Section 4.3 discusses astronomy-related facilities and other research and educational facilities and developments.

4.1 PLANNING CONTEXT

4.1.1 BACKGROUND

Maunakea was first identified as a highly desirable location to site astronomy facilities in the early 1960s, and subsequent testing and long experience with multiple astronomy facilities have confirmed that astronomical viewing conditions on Maunakea are second to none in the Northern Hemisphere. Those natural conditions and the now well-developed infrastructure make Maunakea a highly desirable location for astronomical research that attracts scientists from around the world. The collaborative work that it fosters is at the heart of many of the most important discoveries that have been made about the Universe over the past several decades.

As discussed in Part 1 of this Master Plan, Maunakea is not solely a unique astronomical resource; it is a special natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ‘ike Hawai‘i (traditional knowledge), climate, and so much more. This Master Plan envisions proposals that expand scientific inquiry on Maunakea beyond astronomy. Future educational opportunities are still to be developed, but UH has heard from researchers in numerous fields that believe study within the MKSR will be informative and fruitful, and provide insights in other fields. It will be a place for integrating multiple disciplines and addressing diverse topics.

For the first several decades of its management of Maunakea, UH’s charge from the legislature and executive branch led it to prioritize astronomy-related goals. Since then, UH has been increasingly responsive to changing community and governmental priorities that place a much greater emphasis on the stewardship, conservation, and study of Maunakea’s cultural landscape.
and natural resources. Stewardship, conservation, and non-astronomy education goals have not required the establishment of new facilities or developments to date; therefore, nearly all the vertical facilities in the MKSR in 2021 are related to astronomy. Table 4-1 and Figure 4-1 summarize the existing astronomy sites and facilities within the MKSR. Additional detail for selected sites is provided on a larger drawing provided in Appendix F.

“Astronomy Sites” are the specific locations, typically defined by sublease areas, where astronomy facilities have been or may be developed. The astronomy sites are numbered generally clockwise from Astronomy Site 1 (Subaru) to Astronomy Site 13 (TMT); Astronomy Site 14 (VLBA) is removed from the others on the southern slope of Maunakea (Figure 4-1). The astronomy site boundaries are based on the following:

- For astronomy sites that have, or had, subleases, the boundary is based on descriptions and depictions in the sublease and the CDUP for each astronomy facility.
- For astronomy sites that never had a sublease (the two astronomy facilities, Site 7 (UH 2.2m) and Site 9 (Hōkū Kea), always owned by UH), the boundary was drawn based on the extent of the existing facilities, disturbed areas, their relationship/proximity to adjacent uses, and topography.

Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve

<table>
<thead>
<tr>
<th>Astronomy Site #</th>
<th>Facility Name</th>
<th>CDUP Number &amp; Year Approved</th>
<th>Year of First Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subaru</td>
<td>HA-2462, approved in 1992</td>
<td>1999</td>
</tr>
<tr>
<td>2</td>
<td>Keck I</td>
<td>HA-1646, approved in 1984</td>
<td>1990</td>
</tr>
<tr>
<td>3</td>
<td>Keck II</td>
<td>HA-2509, approved in 1992</td>
<td>1996</td>
</tr>
<tr>
<td>4</td>
<td>IRTF</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>5</td>
<td>CFHT</td>
<td>HA-527, approved in 1974</td>
<td>1979</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HA-2691, approved in 1994</td>
<td>2000</td>
</tr>
<tr>
<td>7</td>
<td>UH 2.2m</td>
<td>HA-954, approved in 1977 (post facto), (aka UH 88inch)</td>
<td>1970</td>
</tr>
<tr>
<td>8</td>
<td>UKIRT</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HA-3406, approved in 2007</td>
<td>NA</td>
</tr>
<tr>
<td>10</td>
<td>CSO</td>
<td>HA-1492, approved in 1982</td>
<td>1986</td>
</tr>
<tr>
<td>11</td>
<td>JCMT</td>
<td>HA-1515, approved in 1983</td>
<td>1987</td>
</tr>
<tr>
<td>12</td>
<td>SMA</td>
<td>HA-2728, approved in 1994</td>
<td>2002</td>
</tr>
<tr>
<td>13</td>
<td>TMT</td>
<td>HA-3568, approved in 2017</td>
<td>NA</td>
</tr>
<tr>
<td>14</td>
<td>VLBA</td>
<td>HA-2174, approved in 1989</td>
<td>1992</td>
</tr>
</tbody>
</table>

Source: UH and DLNR

21 Vertical facilities are those that rise substantially higher than the natural ground surface and include all buildings, but do not include roads and utilities.

22 The extents of Astronomy Sites 2 and 3 (Keck I and Keck II) are based on dividing the single Keck sublease area into two sites based on drawings included in CDUP applications for the two facilities (HA-1646 and HA-2509).

23 Astronomy facilities developed prior to 1971 were permitted post facto by CDUP HA-954. As outlined in DLNR’s staff report for that CDUP (DLNR, 1977), participants in the MKSR master lease (e.g., UH) likely did not seek additional approvals when the pre-1971 facilities were built because they assumed that the lease and purposes of the MKSR permitted the construction of observatories. The report states, “It is felt that the failure to obtain the approval of the Board for the use of State-owned conservation lands may well be based on assumption rather than outright omission.”
Figure 4-1: Mauna Kea Science Reserve Astronomy Sites

Source: PSI
4.1.2 UH COMMITMENTS

UH’s vision and goals recognize that astronomy on Maunakea can only continue to the extent that (i) it is sensitive to and respectful of Maunakea’s cultural landscape and natural resources, and (ii) it contributes to the area’s stewardship, preservation, and utilization by others. Accordingly, UH has committed to reducing the number of operating astronomy facilities. Although a reduction in the number of astronomy facilities may adversely affect UH’s astronomy program and the MKOs in the short-term, UH believes it is likely to contribute substantially to the achievement of non-astronomy goals and objectives while also allowing the State and its residents to continue to reap the substantial scientific, cultural, and economic benefits that astronomy facilities in the MKSR provide.

This Master Plan reflects UH’s specific commitments, which include:

- By December 31, 2033, and throughout the remainder of the time covered by this plan, there will be not more than nine (9) operating astronomy facilities in the MKSR.24
- Five of the 14 astronomy sites that existed in 2020 will be ineligible for future astronomy facility use once the existing astronomy facilities on them have been decommissioned.25 They may be considered for non-astronomy uses consistent with this Master Plan’s framework.
- Astronomy Site 13 will be the last new site developed for an astronomy use in the MKSR. All future astronomy facilities will remain within the astronomy sites (Appendix F) that remain eligible for future astronomy facility use.
- No land uses will be considered on major undeveloped cinder cones (pu’u) in the MKSR; this includes Pu’uala, Pu’uhoaka, Pu’ulilinoe, Pu’umaho, Pu’umakanaka, Pu’uupoe, and Pu’uula.26

These commitments will support UH’s compliance with existing permits and governmental approvals. Which nine facilities continue to operate beyond 2033 in compliance with the first commitment will be established via the process outlined in Appendix E. Those not selected to continue will be decommissioned prior to the end of 2033.

Two astronomy facilities, Hōkū Kea (Astronomy Site 9) and Caltech Submillimeter Observatory (Astronomy Site 10), have already self-selected cessation of operations and have made substantial progress toward decommissioning. In addition, the Very Long Baseline Array (Astronomy Site

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24 UH presently holds a General Lease from BLNR under which it grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world class facilities and research coordination. The General Lease expires at the end of 2033, before this Master Plan’s 20-year planning horizon. This Master Plan is essential to UH’s management efforts at least until 2033. After 2033, if UH is not granted a land authorization that includes the MKSR, whatever entity takes UH’s place might adopt some, all, or none of this Master Plan in its planning efforts. It is possible that, per the General Lease and subleases, that all the existing astronomy facilities will need to decommission by the end of 2033 if UH or another entity is not granted a land authorization for all or portions of the MKSR.

25 As described in Section 4.3.4.3, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy if one of those sites is decommissioned and the other is selected for recycling.

26 Pu’uopoli’ahu and Pu’ukūkahau’ula are not included in this list, although they were mentioned in CMP management action FLU-2, because they are not undeveloped and land uses, including habitat restoration, may be proposed on those pu’u.
14) will not be among the facilities selected to continue operation beyond 2033. Those three sites, Astronomy Sites 9, 10, and 14, will be among the five ineligible for future astronomy facility use once the existing astronomy facility is removed. One or two additional astronomy facilities, depending on whether an astronomy facility is operating on Astronomy Site 13, will not be selected to continue operation beyond 2033 and therefore be decommissioned before December 31, 2033. Astronomy uses, including continued operation, modification, and recycling described in Section 4.3, will continue on eligible Astronomy Sites.

UH believes that the scheduled reduction in astronomy facilities between now and 2033 will make an important contribution towards achieving the goals stated in Part 1, Section 1.4 of this Master Plan. When realized, it will allow a sufficient number of astronomy facilities to remain on Maunakea to maintain its and Hawaiʻi’s position as a world center of astronomical research. At the same time, it will provide space, facilities, and encouragement for non-astronomical research, education, and other activities that will foster the responsible stewardship and sustainable use of Maunakea and a balance among those seeking their place on the mountain.

### 4.2 MANAGEMENT & STEWARDSHIP-RELATED FACILITIES & PROJECTS

This section is divided into two parts. The first addresses facilities and projects related to UH’s management and stewardship responsibilities. The second part describes facilities and projects intended to support and facilitate public activities.

#### 4.2.1 ADDRESSING STEWARDSHIP MEASURES IN THE CMP

The CMP specifically calls for several stewardship measures that involve facilities and actions typically governed by the Conservation District Rules. These management actions and projects may entail the construction of minor facilities and land modifications within the MKSR. They may include, but are not limited to, the following:

- **Producing and outplanting native species, which is called for by CMP Management Actions NR-3 and NR-9.** The focus of these management actions is Halepōhaku because producing and outplanting is unlikely to occur in the MKSR’s alpine ecosystem.

- **Fencing areas of high native biodiversity or populations of endangered species, which is called for by CMP Management Action NR-8.** Fencing is unlikely to occur within the MKSR given the fencing of Maunakea at lower elevations by DLNR and the conditions within the alpine ecosystems.

- **Conducting habitat rehabilitation or restoration projects, which is called for by CMP Management Action NR-12.** Rehabilitation or restoration projects may occur where the land

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27 Among the reasons the VLBA is specified for decommissioning in this Master Plan are (i) it was identified in the Decommissioning Plan (2010) that VLBA would be decommissioned prior to the end of the current lease term, and (ii) Condition 11 of CDUP HA-3568 (2017) states that the VLBA is to be decommissioned by December 31, 2033.

28 This is included in this section to ensure that it is provided for should conditions and priorities change over the 20-year plan period (e.g., climate change has been shown to affect the elevation at which species are successful). The likelihood of these actions increases if outplanted silversword can tolerate conditions in the MKSR.
was previously disturbed (e.g., the Puʻupoliʻahu access trail) or land is accidentally disturbed in the future. The likelihood of implementing such projects may increase if such projects, including astronomy site restoration efforts, prove to be successful.

Such stewardship measures will be undertaken where they are biologically appropriate; biological conditions inherently required for them will dictate the range of options available. When selecting a site, consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, visual resources, and proposal-specific concerns.

4.2.2 FACILITATING PUBLIC ACTIVITIES

Given the expected continued growth in demand for experiences on Maunakea, UH believes that public facilities such as restrooms, shelters, signs, designated parking areas, and trails aimed at non-astronomical visitors to the summit area will be necessary to manage activities in a way that minimizes their adverse effect on the cultural landscape, protects natural resources, and improves safety. Storage spaces and ranger offices needed to aid in facilitating public activities may be incorporated into the public facilities or will utilize existing space in astronomy facilities.

The public facilities considered in this section will be sited, designed, and sized in a manner that is consistent with UH’s commitment to manage access to Maunakea. UH intends to manage the number of vehicles (Section 5.3), and thereby people, ascending above Halepōhaku in a manner that preserves the ambiance and feeling of the cultural landscape and minimizes adverse effects on the alpine ecosystem and other resources. Therefore, the facilities and projects discussed in this section will be sited and designed to accommodate fewer vehicles and people than were present in the recent, pre-pandemic, past. More specifically, they will be sized to accommodate only the number of vehicles and visitors expected with active access management as described elsewhere in this plan (Section 5.3) and designed to provide a safe and rewarding experience for those who do enter.

Proposed facilities will be confirmed to be scientifically, culturally, and site-appropriate through the UH project review process described in Part 3 of this Master Plan. Consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, and visual resources. When possible, proposed facilities will be co-located and programmed for multiple purposes with other existing or proposed facilities to minimize impacts and encourage beneficial relationships among all those visiting the UH Maunakea Lands. Facilities will be preferentially sited in locations that have been previously disturbed, unless the proposal requires undisturbed lands or where essential for safety or other considerations, in which case these facilities may be sited in undisturbed areas.

The facilities that UH has already determined it may consider within the MKSR over the term of this Master Plan are described in the following subsections. However, other uses may be proposed by UH or other parties as well, and their absence from this Master Plan does not exclude them from consideration under the framework laid out under this Master Plan.

4.2.2.1 Restrooms and Shelters

The portable toilets that are now located within the summit area provide a great improvement over the “no public toilet” situation that existed for many years in the MKSR. Despite the presence of
these portable toilets, rangers and/or astronomy facility personnel are still regularly called upon to clean up human waste. This continuing burden is due to: (i) parking in undesignated parking areas within the MKSR, (ii) the type and limited number of toilets provided, (iii) the fact that visitors are not always aware the facilities exist, and (iv) the facilities’ excessive distance from some locations where visitors congregate.

To mitigate this issue, UH will designate public parking areas as provided for in the UH Maunakea Rules (HAR Chapter 20-26) and maintain, reposition, and increase the number of portable toilets in the MKSR until improved permanent facilities can be developed. The repositioning of existing and future portable toilets may be necessary during construction and decommissioning projects as well. UH will investigate the extent to which it may be able to provide permanent public restrooms and shelters that can serve the MKSR. Once improved permanent restrooms are available, nearby portable toilets will be removed.

Those who come to the mountain, including BLNR, have also identified the need for shelter, particularly shelter that would be helpful to cultural practitioners, the public, and the Rangers. Shelters to provide a place where cultural practitioners and others could assemble and Rangers could store safety equipment and have office space will be considered.

Siting considerations for these facilities include:

- Proximity to where people, including the public and cultural practitioners, presently or are likely in the future to congregate, such as near designated public parking areas, shuttle stops, popular sunset viewing areas, and trailheads.

- Preference for areas that:
  - Have been previously disturbed, including the adaptive reuse of decommissioned or recycled astronomy sites and facilities. Astronomy sites where it may be more likely to consider this include Astronomy Sites 9 (Hōkū Kea) and 14 (VLBA), plus Astronomy Sites 7 (UH 2.2) and 8 (UKIRT), should they be decommissioned.
  - Are next to or near existing improvements, including astronomy facilities.29
  - Minimize visual impacts.
  - Provide a buffer from areas with high native species diversity, unique biological communities, unique geological features, or sensitive cultural sites.
  - Provide a buffer, established in consultation with SHPD, from archaeology sites (Figure 4-2).

- Ease of access by maintenance vehicles and personnel.

- Proximity to existing utility lines if utility connections are required.

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29 Facilities could be attached to existing UH-owned astronomy facilities, but placement of public facilities on astronomy sites subleased to other entities would require modification of agreements. Public facilities would need to avoid or minimize impacts to astronomy facility operations and safety hazards related to falling ice and other hazards.
Figure 4-2: Archaeology Sites in the UH Maunakea Lands

Source: PCSI.
4.2.2.2 Public Parking

HAR § 20-26-28 provides that parking a motorized vehicle outside designated parking areas is prohibited. Currently there are three designated public parking areas along the Mauna Kea Access Road, which are listed below.

- Parking Area 1 with 12 stalls at roughly 11,860 feet elevation.
- Parking Area 2 with 22 stalls at roughly 12,815 feet elevation.
- Parking Area 3 (aka the Batch Plant Parking Area) which is permitted for six stalls at roughly 13,250 feet elevation.

There are no officially designated public parking areas along the road that serves the summit ridge. The siting, design, and size considerations listed in Section 4.2.2.1 also apply to new public parking.

UH has identified and is continuing to evaluate public parking needs and the potential need for improvements. The parking area improvement projects that it believes are most likely to be pursued include, but are not limited to, those shown on Figure 4-3. They include: (i) designating and improving areas in the summit region for visitor and commercial tour parking; (ii) installing informational and regulatory signs; and (iii) placing safety devices (e.g., barriers preventing runaway vehicles and off-road driving) in those areas currently used for parking on an ad hoc basis. As depicted in Figure 4-3, these public parking areas are situated on portions of Astronomy Site 7 (UH 2.2), Site 8 (UKIRT), and Site 9 (Hōkū Keʻa). Because members of the public and commercial tour operators have been parking their vehicles and viewing the sunset or conducting other activities from these areas for many years, this amounts to a continuation of present use. However, the Astronomy Site decommissioning that is scheduled, the planned establishment of a shuttle service, and the preparation of this Master Plan provide an opportunity to formalize and improve on what has until now been an ad hoc practice. Other areas will be considered and may also be designated and improved following community outreach.

4.2.2.3 Signs

UH will install and maintain all signs within the MKSR in accordance with the Maunakea Sign Plan (Office of Maunakea Management (OMKM), February 2017), which was prepared to address CMP management action EO-4. These will include educational, safety, and interpretive signs. In addition to making users aware of safety and conservation issues, the signs will identify unique geologic features and inform them of the best ways to conserve them. The plan provides policy concerning sign standards, types, design, siting, approval, and maintenance.

The types of stand-alone signs that may be installed in the MKSR include signs related to traffic control and the location of designated public parking areas, temporary traffic control warnings, and visitor information. The latter category includes such things as interpretive and wayside exhibits (e.g., historic site interpretation, exhibits regarding geologic features), trailhead signs, and signs related to resource protection (e.g., outline protection afforded to historic sites). Signs complying with the Maunakea Sign Plan may also be installed as components of other approved land uses. In addition to compliance with the sign plan (Section 7.5.3), signs may be multilingual and utilize iconography, when appropriate.
Figure 4-3: Potential Parking Project Locations in Summit Region

Source: PSI

Signs will be placed only where they are biologically and culturally appropriate, where necessary for safety purposes, and/or where people can or do congregate to appreciate the landscape and resources in the area. During site selection, consideration will be given to potential adverse
impacts, including impacts to the cultural landscape and natural resources. The proximity of utilities will also be considered in the unlikely event signs require utility connections. Signs will preferentially be sited in locations that have been previously disturbed and collocated with restrooms, shelters, public parking, and trailheads. Where appropriate for safety or other considerations, these minor facilities can be sited in undisturbed areas.30

4.2.2.4 Trails

The great majority of the trails on Maunakea are outside the MKSR on land that is either within the neighboring Mauna Kea Ice Age NAR or within the Mauna Kea Forest Reserve. These areas are managed by and under the jurisdiction of DLNR. Nevertheless, hiking is a relatively common recreational activity in the MKSR; it is concentrated on the few better-known trails in the MKSR (e.g., summit trail and Lake Waiʻau trailheads). Hiking near the summit of Maunakea is challenging and potentially hazardous for two main reasons.

- First, because the amount of oxygen in the air is only about 65 percent of what it is at sea level, individuals must breathe faster to compensate for the oxygen shortfall, and the heart must beat faster too.

- Second, the temperature, wind, snowfall, and ice in the summit region can be dangerous for those who are caught outside without the proper clothing because it leads to hypothermia, which can be life-threatening.

For health and safety reasons, hiking in areas that are not visible to Rangers and first responders is not advisable. For this reason, UH does not advocate the establishment of any new public trails within the MKSR. Instead, UH will continue to coordinate with DLNR regarding the establishment of trails at lower elevations on NAR or Forest Reserve land and will make areas under UH jurisdiction needed to support or complement such trails available for trail purposes as requested.

Notwithstanding its desire to minimize the amount of hiking across the high-elevation lands within the MKSR, UH recognizes that hiking on some routes is so well established that it will continue and be made consistent with HAR Chapter 20-26. The trail to the summit of Maunakea from Astronomy Site 9 (Hōkū Kea) will be considered for improvement. Accessing the highest point in the Pacific will continue to lure visitors, and some cultural practitioners also access the summit. It is a short trail, and people are always visible to the Rangers and other first responders on the road, provided they remain on the trail. Adverse impacts observed associated with use of this trail include erosion, trail widening, trail realignment, and wandering off the trail. To reduce erosion and more clearly delineate the trail, UH may consider hardening the trail while respecting the design guidelines in Chapter 7. The most appropriate techniques and materials to carry out this concept would be informed by working with Native Hawaiians that have ties to the Kaʻohe Ahupuaʻa.

30 Undisturbed areas are those areas outside of the astronomy sites that have not been visually affected by human activity. All areas within the astronomy sites, including decommissioned and restored astronomy sites, are considered disturbed.
In addition to the concept described above for the summit trail, UH will continue to maintain the road access and parking utilized by those hiking on the two trails that lead from the Mauna Kea Access Road to Lake Wai‘au, in coordination with DLNR to remain consistent with DLNR’s management efforts within the NAR.

4.3 EDUCATION, RESEARCH, AND ASTRONOMY FACILITIES

This section addresses facilities and projects related to education, research, and astronomy facilities within the MKSR. As discussed in Part 1, astronomy has been the driving force behind UH’s involvement with Maunakea, and UH anticipates that this will continue to be the case. In addition to astronomy, UH is focused on diversifying the education and research opportunities on Maunakea. As stated at the beginning of this chapter, UH is also committed to retaining the wilderness characteristics of the MKSR. The MKSR is a natural laboratory and learning space; Halepōhaku is the classroom and support facility. Most research within the MKSR will not require large instruments or structures; astronomy is the exception, not the rule.

In this section, we first discuss facilities and developments associated with non-astronomy education and research (Section 4.3.1), then we focus on astronomy sites and facilities.

4.3.1 DIVERSE EDUCATION AND RESEARCH FACILITIES AND DEVELOPMENTS

As with astronomy, which has always sought to keep its facilities within the MKSR compact and used Halepōhaku and headquarters facilities in Hilo and Waimea to support astronomy facility operations, other education and research pursuits will also restrict their footprint within the MKSR. For instance, classrooms and meeting rooms will not be built within the MKSR; the facilities at Halepōhaku, UH Hilo, and elsewhere will provide those functions.

Researchers occasionally propose data gathering efforts in the MKSR that involve equipment and facilities occurring on the landscape for a period of time. Maunakea’s unusual resources, including its elevation, location, and access, provide unique research and data gathering opportunities. Proposals can be expected from UH staff, students, and/or researchers from other institutions and would be funded by those proposing them (some may receive grants from CMS). UH will carefully consider data gathering proposals and only permit those that require Maunakea’s unusual assets to proceed within the UH Maunakea Lands, consistent with the UH Maunakea Rules.

Some data gathering programs do not constitute land uses (as the term is used in this Master Plan) because they do not involve the alteration of the land or the erection of solid material that remains for more than 30 days. Similarly, activities such as archaeological research, arthropod monitoring, and geologic mapping do not constitute land uses. Examples of data gathering efforts that may qualify as land uses include the installation and long-term operation and maintenance of instruments to measure environmental conditions (e.g., weather, snow-depth, earth movements, sound, vehicular traffic, etc.).

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31 Although they are not land uses and, therefore, not a subject of this Master Plan, research activities may require different approvals from UH and DLNR.
Data gathering land uses would be sited as necessary to support the research goals of individual programs. Achieving those goals may require measurements at different elevations, data from various sides of Maunakea, or the collection of information from locations similar to other locations around the world where the same sorts of data are being gathered. UH will evaluate siting alternatives to ensure that data gathering activities, facilities, and equipment avoid and/or minimize potential impacts by, for example:

- Considering previously disturbed areas, including active and decommissioned astronomy sites, when program research goals do not require undisturbed areas.
- Siting equipment outside of buffers established in consultation with SHPD around archaeology sites (Figure 4-2).
- Considering visual impacts.

Actual site selection criteria will be proposal specific, based on type and longevity of use, and other factors. They will be established via the appropriate proposal review process (see Part 3). A proposed data gathering use will not be approved if it cannot avoid and/or minimize impacts to the extent deemed appropriate by UH and DLNR.

### 4.3.2 Astronomy Decommissionings

This Master Plan calls for there to be no more than nine (9) astronomy sites with operational astronomy facilities in the MKSR by the end of 2033 (Section 4.1.2). This section outlines the process by which UH will accomplish this commitment.

#### 4.3.2.1 Ongoing Decommissioning of Two Astronomy Sites

As summarized below, the sponsors of the CSO (Astronomy Site 10) and Hōkū Kea (Astronomy Site 9) have each already submitted a decommissioning Notice of Intent (NOI), MKMB and DLNR have approved their NOIs, and they are fully engaged in the decommissioning process laid out in the CMP. They have also both issued Draft Environmental Assessments detailing their proposed decommissioning efforts and associated impacts (Caltech 2021, UH Hilo 2021). The decommissioning of these two facilities partially fulfills CDUP HA-3568 Special Condition #10, which states “The University will decommission three telescopes permanently, as soon as reasonably possible.”

UH has decided that these two sites will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of Astronomy Site 9 may be considered during or after the decommissioning process.

#### 4.3.2.2 Upcoming Decommissioning of Additional Astronomy Sites

Which astronomy facilities and sites will continue beyond 2033 and which shall be decommissioned will be established via the process outlined in Appendix E. It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033. One or two additional facilities, depending on if an astronomy facility is developed on Astronomy Site 13, will not be selected for continued operation via the process outlined in Appendix E. Selections are expected by the end of 2025, allowing seven years for the owners/operators of any not selected to completely decommission prior to the end of 2033.
UH has decided that the sites once occupied by those facilities not selected to continue operation via the process outlined in Appendix E will not be available for future astronomy use, including recycling. However, as discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of decommissioned astronomy sites may be considered during or after the decommissioning process. In addition, as described in Section 4.3.4.3 and shown in Figure 4-4, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy in the event that one of those sites is decommissioned and the other is recycled.

4.3.3 Continued Operation, Modifying, and/or Recycling Astronomy Sites and Facilities

4.3.3.1 Continued Operation of Existing Facilities

Over the 20-year period of this Master Plan most astronomy facilities not decommissioned will likely continue to operate in their current general configuration. Internal alterations (e.g., installing new instrumentation, replacing mechanical and electronic equipment, etc.) are likely to be made in virtually all of these at the discretion of the facility owner and operator. Work needed to maintain the exterior of the facilities (e.g., resurfacing the dome or parking areas) and minor alterations that affect the exterior of the facility may also occur. External maintenance and alteration projects will need to follow the project review process described in Part 3 of this Master Plan. Examples of possible alterations may include such things as the attachment of equipment such as cameras, weather equipment, or adaptive optics equipment to the exterior of a dome to aid observing or attaching photovoltaic (PV) panels to the roof of support buildings.32

4.3.3.2 Potential Modification and Recycling Projects

As used in this Master Plan:

- “Modification” of an astronomy facility entails changes to an existing facility that are made to modernize or improve its capabilities that go beyond the alterations discussed in Section 4.3.3.1. Examples of possible modifications include enlarging or reconfiguring a dome to accommodate a larger telescope or constructing additional building space to accommodate more equipment or support infrastructure.

- “Recycling” an astronomy site involves the complete removal of an existing astronomy facility and the construction of a new astronomy facility in its place. Recycling is consistent with preserving nine operating astronomy facilities at any one time and keeping facilities on existing, previously disturbed astronomy sites.

Modification and/or recycling will be considered only at astronomy sites not eliminated from consideration for future astronomy facilities per the commitments outlined in Section 4.1.2. They will also need to address the design guidelines outlined in Part 3, Chapter 7, which, among other things, require astronomy facilities be confined to the defined astronomy sites. Other than the possible adjustment to Astronomy Site 7 and Astronomy Site 8 boundaries outlined in Section 4.3.4.3.

32 PV panels have been added to the Keck and Gemini support buildings. Other astronomy facility operators are also likely to add them to support buildings in the coming years.
4.3.4.3 (which would result in a site roughly equivalent in size to the average of the two), modification and recycling projects will not involve a change in the size or boundaries of the astronomy sites.

UH’s assessment of the likelihood that facilities at each of the astronomy sites will be modified or recycled over the life of this plan is summarized in Table 4-2. As indicated in Table 4-2, the only presently known potential modification or recycling project in the MKSR is the modifications to CFHT (Astronomy Site 5) that is under discussion to accommodate the Maunakea Spectroscopic Explorer (MSE) project. If implemented, the MSE project, which has not yet been evaluated or approved by UH, would transform the CFHT 3.6-meter telescope into a 10-meter class dedicated multi-object spectroscopic facility with an ability to simultaneously observe more than four thousand objects. It is not yet known if the MSE project will be officially proposed to UH. If it is, it will most likely be considered a modification project because, as envisioned now, it would retain the existing CFHT foundation and base structure.

### Table 4-2: Probability of Modification or Recycling by Astronomy Site

<table>
<thead>
<tr>
<th>Astronomy Site</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 1: Subaru</td>
<td>Highly unlikely</td>
<td>Japan sets funding of the facility in 10-year increments and does not show any signs of shifting priorities away from Subaru, its principal astronomy asset. Subaru is likely to complement the MSE project, which will add to its long-term utility if the MSE project becomes a reality.</td>
</tr>
<tr>
<td>Sites 2 and 3: Keck I &amp; II</td>
<td>Highly unlikely</td>
<td>Keck is the single most impactful astronomy facility in the world. Investments in internal instrumentation by Keck will enable it to continue its leadership.</td>
</tr>
<tr>
<td>Site 4: IRTF</td>
<td>Slight</td>
<td>The IRTF provides critical support for NASA’s exploration of the Solar System. There is no evidence that NASA’s priorities will change in a way that would substantially reduce the need for IRTF. However, this astronomy site is one of the few that hosts a relatively small telescope (4-meter class) and is of sufficient area and remoteness from other facilities that it could be recycled with a larger facility (10-meter class, perhaps a facility similar to the Vera C. Rubin Observatory facility in Chile).</td>
</tr>
<tr>
<td>Site 5: CFHT</td>
<td>Moderate</td>
<td>CFHT has been working on the MSE concept for a decade and continues to pursue partners to make that a reality; therefore, it has the highest probability of modification or recycling.</td>
</tr>
<tr>
<td>Site 6: Gemini North</td>
<td>Highly unlikely</td>
<td>The AURA manages this facility in concert with the Gemini South facility in Chile. Continued investment by NSF and other Gemini partners is anticipated, as well as technology sharing among the two Gemini telescopes and other NSF-supported facilities.</td>
</tr>
<tr>
<td>Site 7: UH 2.2m (88&quot;)</td>
<td>Moderate</td>
<td>UH considered this site for recycling when the Pan-STARRS project was being planned. The size and geometry of the site and its proximity to Gemini North and other resources mean that this site is unlikely to be recycled to host a facility substantially larger than the existing structure. See Section 4.3.4.3 regarding possible recycling once site boundary is altered.</td>
</tr>
</tbody>
</table>
### Site 8: UKIRT

Slight to moderate

UKIRT has been one of the most impactful facilities in recent years due to its wide-field camera and ability to engage in time-domain astronomy. As its efforts with the wide-field camera wind down over the next decade, the likelihood of modification or recycling may increase. The size of the site and proximity to other resources suggest that its recycling would not yield a facility substantially larger than the existing one. See Section 4.3.4.3 regarding possible recycling once the site boundary is altered.

### Site 9: Hōkū Kea

None

This facility will be decommissioned, and the site will not be available for future astronomy use.

### Site 10: CSO

None

This facility will be decommissioned, and the site will not be available for future astronomy use.

### Site 11 – JCMT

Highly unlikely

JCMT continues to be very impactful and is part of the Event Horizon Telescope, which is a long-baseline submillimeter interferometer. Maunakea will continue to play an important role in such efforts due to its latitude. However, it is unlikely that modification or recycling will occur due to the large and ongoing investment in submillimeter facilities in the southern hemisphere. Located in “submillimeter valley,” this site is not attractive for recycling to an optical or infrared facility.

### Site 12 – SMA

Highly unlikely

Factors discussed above related to JCMT apply to the SMA as well, and the Smithsonian has not indicated any change in priorities or funding.

### Site 13 – TMT

Extremely unlikely

The TMT has a CDUP to build on this site during the term of this Master Plan. If constructed, it will have an operating life of at least 50 years.

### Site 14 – VLBA

None

This facility will be decommissioned, and the site will not be available for future astronomy use.

Source: UH and the MKOs

Although the current MSE project concept involves the facility at Astronomy Site 5 (CFHT) becoming slightly taller (no change to building footprint at ground level), it is not a foregone conclusion that all modification or recycling projects will result in larger facilities. Instead, technological advances could result in larger aperture telescopes being developed on astronomy sites in ways that require minimal disturbance and result in minimal height and size increases, or even allow existing facilities to be replaced with smaller ones. Moreover, not all astronomical research requires large-aperture telescopes. There will always be demand for 2- and 4-meter class telescopes, and it is possible that an astronomy site that presently has a 2- or 4-meter class telescope could be modified or recycled with a similar size facility that takes advantage of the many technical advances that have occurred since the mid-1980s when telescopes of this size were last installed in the MKSR. Such recycling could substantially increase the scientific power of a site without increasing (and potentially decreasing) the footprint, bulk, and impacts of the facilities that are present.

### 4.3.4 Other Potential Astronomy-Related Projects

#### 4.3.4.1 Optical Hawaiian Array for Nanoradian Astronomy Project

The astronomy facilities on Maunakea are experimenting with the use of fiber optics for two different purposes.
• The first is to transmit the visible light or infrared radiation collected while observing a celestial object at one facility to another facility so that instruments in the other facility can analyze the radiation (the GRACES project).33

• The second is a concept to combine the light from up to seven existing telescopes, the so-called Optical Hawaiian Array for Nanoradian Astronomy project. The project would interconnect some or all the optical/IR facilities on Maunakea (Subaru, Keck, IRTF, CFHT, Gemini, UH2.2m, and UKIRT) to create an interferometer capable of providing ultra-high-resolution images of the near-infrared Universe. The image that could be produced by the linked facilities would be up to 80 times sharper than the image from one of the 10-meter Keck telescopes. The project would be challenging and, if it moves forward, it would probably be implemented in phases and take decades to implement fully. However, this highly collaborative undertaking would greatly expand the capability and utility of the existing facilities.

The project would require fiber-optic cables between the facilities and a large laboratory space for the “delay line” that is an essential component of interferometers. Sufficient laboratory space for the project is already available within one of the existing facilities. Converting the area within the facility for this use might require some internal modifications, but it is unlikely to require modifications that would change the exterior of the facility. However, interconnecting the facilities would involve the installation and maintenance of underground cables. These cables would likely follow the alignments of other utilities (electrical and communication) that already run between the astronomy sites. Implementing the project might require the installation of additional underground conduit along those routes between the astronomy sites. Because they are common infrastructure improvements comparable to existing roadways, electrical power feeds, and communication lines, the conduits and cables would not be required to comply with Master Plan guidelines regarding the confinement of astronomy improvements to astronomy sites. The project, or similar connections between the astronomy sites, would likely be developed in phases as the concept is proven and resources become available.

### 4.3.4.2 Joint Development of Astronomy Sites

Astronomy Sites 2 and 3 (which contain the W. M. Keck Observatory) were developed jointly by a consortium consisting of the University of California and the California Institute of Technology (Caltech) between 1984 and 1996. These two astronomy sites lent themselves to joint development as they are contiguous, share a long border, and the ground is relatively level across the two sites. Should Astronomy Sites 2 and 3 be recycled in the future (which is considered highly unlikely, Table 4-2), they could be jointly developed again.

While IfA considers it unlikely that other astronomy sites will be jointly developed, the possibility cannot be completely dismissed. Astronomy Sites 5, 6, 7, and 8 are contiguous, and it is conceivable that two of them (e.g., 6/7 or 7/8) could be jointly developed. While their different

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33 The ongoing Gemini Remote Access to CFHT ESPaDOnS Spectrograph (GRACES) project is the result of a cooperation between the Canada-France-Hawaii Telescope (CFHT), Gemini, and NRC-Herzberg (Canada). It combines the large collecting area of the Gemini North telescope with the high resolving power and high efficiency of the ESPaDOnS spectrograph at CFHT to deliver high resolution spectroscopy across the optical region.
elevations and geometry make that challenging, it is conceivable that new technology, materials, and/or design concepts may create an opportunity for this over the term of this Master Plan.

### 4.3.4.3 Potential Combination and Boundary Amendment of Astronomy Sites 7 and 8

A more likely alternative to joint development is combining and amending the administrative boundary of Astronomy Sites 7 and 8 so that a single new state-of-the-art astronomy facility could be developed on a portion of the area where two facilities (UH 2.2 and UKIRT) currently exist. This would make it possible to: (i) address proximity issues with Astronomy Site 6 (Gemini), (ii) mitigate erosion risks at Astronomy Site 8, and (iii) maintain an astronomy site of sufficient size for recycling. Each of these items is discussed below:

- **Proximity issues** are created when one astronomy facility dome creates air turbulence that adversely affects astronomical seeing conditions at a nearby facility. Currently, the UH 2.2 dome on Site 7 is roughly 300 feet from the Gemini dome on Site 6 (measured from the center of one dome to the center of the other). Ideally, the two domes would be separated by 500 feet to minimize the potential for proximity issues.

- **Erosion issues** at Astronomy Site 8 (UKIRT) are related to the proximity of the road located to the northwest and at a lower elevation than the facility. Grouted rubble pavement (GRP) has been installed on the slope in this area to address the erosion. Additional measures may be needed to address the erosion if Astronomy Site 8 (UKIRT) continues to be utilized.

- **Astronomy Site sizes** on the subject ridge (Astronomy Sites 5, 6, 7, and 8) range from 0.77 acres (UKIRT on Site 8) to 1.96 acres (Gemini on Site 6). A site of roughly 1.5 acres is considered the minimum necessary to support a modern optical/IR facility that would most likely be developed through the recycling of a site on this ridge, and closer to 2.0 acres would be preferable.

Figure 4-4 illustrates the amendment of the Astronomy Site 7 and 8 boundaries that would allow this; the resulting site would be referred to as Astronomy Site 7.5. A reconfiguration along this line would address each of the points above by allowing the development of a new facility with a dome that is roughly 500 feet from the Gemini dome that is setback from the erosion problems and has a size of roughly 1.5 acres. The total area of the site that is delineated in Figure 4-4 for site 7.5 is roughly 1.34 acres, which is equal to the average size of existing Sites 7 and 8, substantially less than the combined areas (2.7 acres) of Sites 7 and 8, and is completely within areas that are already permitted for astronomy facilities.

This amendment of Astronomy Site 7 and 8 boundaries would only occur if: (i) one, but not both, of Astronomy Sites 7 and 8 were to be decommissioned; and (ii) the Astronomy Site that does continue is recycled. It is possible that both required events could occur during the 20-year term of this Master Plan. If it does come to pass, it would result in the continuation of one astronomy site where there are now two. The design guidelines (Part 3 of this Master Plan) that are considered in relation to the existing facility on the subject astronomy site (i.e., dome height) would be calculated on the basis of the UH 2.2 facility currently on Astronomy Site 7.
Figure 4-4: Potential Amendment of Astronomy Site 7 and 8 Boundaries

Astronomy Site 5
Current use: Canada France Hawai'i Telescope

Astronomy Site 6
Current use: Gemini

Astronomy Site 7
Current use: UH 2.2m (1.94 acres)

Astronomy Site 8
Current use: UKIRT (0.77 acres)

Astronomy Site 9
Current use: Hoku'Ke'a (undergoing decommissioning)

Proposed Astronomy Site 7.5
(1.34 acres)

Source: PSI
4.3.4.4 Multiple Small Telescopes on One Astronomy Site

All astronomy sites on Maunakea currently host a single telescope.\textsuperscript{34} It is becoming more common for modern astronomy facilities to have multiple similar-sized telescopes in a single dome (e.g., the original PanSTARRS concept). As astronomy sites on Maunakea are recycled, it is possible that future facilities may host multiple telescopes of similar aperture. If such changes are made these will continue to be treated as a single astronomy facility.

\textsuperscript{34} Astronomy Site 12 (SMA), is a single interferometer telescope comprised of multiple antennas. Most of the existing facilities have secondary telescope(s) that are used for spotting and other purposes. The secondary telescopes are typically much smaller than the primary telescope and, in some cases, are mounted on the exterior of the dome.
5 ROADWAYS, UTILITIES, AND MANAGED ACCESS

The discussion in this chapter addresses only those roadways, utilities, and managed access facilities located outside astronomy sites and beyond the previously disturbed portions of Halepōhaku. Roadways, utilities, and managed access facilities are discussed separately from the uses specific to Halepōhaku (which are discussed in Chapter 3) and the MKSR (which are discussed in Chapter 4) because they cross boundaries and are independent from, but provide interconnections between, those areas and their land uses.

5.1 ROADWAYS

At one time, the Hawai‘i Department of Transportation (HDOT) anticipated making improvements to the 4.7-mile-long portion of the Maunakea Access Road above Halepōhaku that remains unpaved. However, that paving project is no longer in the HDOT’s budget. Hence, this segment of the Mauna Kea Access Road will continue to require frequent maintenance, and the use of two-wheel-drive vehicles north of/above Halepōhaku will continue to be prohibited, consistent with HAR § 20-26-28.

Should the existing and approved roads be damaged by natural process (e.g., erosion, earthquake) to the point that they cannot reasonably be restored in their current location, they will be replaced with infrastructure of similar capacity nearby.

Maunakea Observatories Support Services (MKSS) has identified the following potential access road projects (see Figure 5-1) and is presently evaluating them.

1. **Project 1.** Paving a roughly 0.5-mile-long segment at the upper end of the currently unpaved portion of the Mauna Kea Access Road. This work has been recommended because the segment has historically required much more frequent grading and other maintenance than have other unpaved road segments.

2. **Project 2.** Improving and paving the roughly 0.5-mile unpaved portion of the Mauna Kea Access Loop Road from Astronomy Site 12 (SMA) past Astronomy Site 1 (Subaru) to Astronomy Site 3 (Keck II). This would eliminate roadway-related dust, reduce the effort required to maintain the roadway, and make it easier to clear snow. In addition to paving, retaining walls could be modified and the travelway widened in the vicinity of Astronomy Site 3 (Keck II).
Figure 5-1: Potential Road Project Locations

- **Approximate Extent of Project 2:** Improving and Paving ~0.5 mi. of Mauna Kea Summit Area Loop Road
- **Approximate Extent of Project 3:** Improving or Abandoning Southern Switchback Portion of Mauna Kea Summit Area Loop Road
- **Approximate Extent of Project 1:** Paving ~0.5 mi. of Uppermost Unpaved Portion of Mauna Kea Access Road

Source: PSI
3. **Project 3.** Improving or retiring the older, southern, switchback portion of the Mauna Kea Access Summit Area Loop Road. This portion of the Summit Area Loop Road has proven to be less stable than the more recently built, northern, currently partially unpaved, portion of the Summit Area Loop Road. The southern, switchback portion of the Loop Road has been damaged by erosion and has required more maintenance than the northern route. This does not appear to be due to age alone. Therefore, if the northern portion of the loop is fully paved (Item 2 above), the southern switchbacks may be either improved or retired.

- **Improvement** would consist of drainage, subsurface structural modifications, and grading modifications and would likely not noticeably change the character of the roadway. This option may be preferred because reliance on a single access route would: (i) reduce resilience in the event of damage from a natural event (e.g., storm, earthquake, etc.) or accident that resulted in the closure of a portion of the Loop Road; and (ii) eliminate the option of operating the Summit Area Loop Road as a one-way route on snow days when there are more non-astronomy vehicles in the summit area.

- **Retirement** would consist of removing the hardened surfaces and retaining walls and then allowing the area to naturalize without further human intervention unless permits require additional measures. This option may be preferred if conditions continue to worsen and improvements, repairs, and/or maintenance become prohibitively expensive or other factors lead UH to this approach.

4. **Project 4.** Safety improvements as deemed appropriate throughout the extent of the road network; improvements such as additional guardrails, pullouts, and runaway truck ramps will be considered.

If the results of its evaluation studies indicate that they are cost-effective, UH will seek funding and project-level approvals for the projects listed above and other roadway needs as they become apparent.

### 5.2 UTILITIES

No expansion of or major modifications to utility infrastructure beyond that already approved is foreseen. Electrical, telecommunication, and related equipment and facilities will, however, require periodic maintenance and/or replacement to ensure that they remain fully functional and able to meet the changing needs of the facilities.

Should a non-UH entity propose and be authorized to install and operate new facilities or equipment that requires utility connections, it will be the responsibility of the project proponents to obtain approval for and install the necessary utility connections. UH will work with the project proponents and with the utility providers to provide the necessary services. This Master Plan does not address the siting, design, or other aspects of such utility extensions. These issues will be addressed through the project review process described in Part 3 of this Master Plan.

#### 5.2.1 Electrical Power

The approved electrical power supply facilities to the UH Maunakea Lands, including Halepōhaku and the upper slopes of Maunakea, are adequate to serve existing, approved, and all foreseeable
loads and demands over the life of this Master Plan. No expansion of the power transmission and distribution system is likely to occur over the 20-year period of this Master Plan, except those required to serve new land uses that are approved in areas outside the astronomy sites, if any. Small data gathering land uses will likely not require electric power connections because they will be encouraged to run on batteries, PV panels, and/or other off-the-grid methods. Bathrooms and other facilities may require a power connection if their demand cannot be met by solar panels and batteries.

Individual astronomy sites may add PV panels to their rooftops, as Keck and Gemini did in early 2020, to produce electricity. Where PV panels are installed, they will reduce the amount of electrical power each facility draws from the Island’s electrical grid, and that must pass through the transmission and distribution facilities on Maunakea. However, because the output of these panels will be a fraction of the amount of power required, they will not dramatically reduce the amount of electrical power that will be needed from the HECO system.

Ongoing maintenance of the existing electrical power system will continue throughout the UH Maunakea Lands during the term of this Master Plan. Maintenance is likely to include activities such as transformer, switchgear, relay, and conductor replacement as part of regularly scheduled maintenance or to replace failed equipment. Maintenance may include the replacement of sections of underground conduit and cable should they be damaged, become exposed, or fail. When replacement is necessary, it may result in minor changes to the equipment to comply with the then-current electrical code requirements.

5.2.2 Communication and Data

MKSS and the astronomy facilities have confirmed that the existing fiber-optic lines that provide communication and data service to the UH Maunakea Lands are adequate to serve existing, planned, and foreseeable loads and demands at their facilities over the life of this Master Plan. New facilities, most likely data gathering projects beyond the astronomy sites, may require connections to the fiber-optic lines to provide real-time communications, remote operation, and data downloads. Efforts will be made to avoid the need for new hard-wire connections; however, if new connections are required, cabling will be placed underground in previously disturbed areas to the extent feasible.

The existing communication and data transmission facilities will continue to be maintained at a high level during the term of this Master Plan. Existing telecommunications equipment such as switches and routers will be replaced and upgraded as needed to ensure its continued reliability and to improve the data transfer rate along the existing fiber-optic system. These upgrades will support the continued trend toward remote observing, remote operation, and increased data production by new telescope instrumentation. It is possible that some of this maintenance may result in small changes to the system to comply with ever-evolving electrical codes and standards. UH anticipates that the vast majority (and quite likely all) of these will involve internal equipment

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35 The upgrade of the existing electrical power supply that has been approved as part of the TMT Project (CDUP HA-3568) is considered part of the “approved” electrical power system.
changes that will not affect the external appearance of the system or require substantial construction work.

Related to communications and data, the Optical Hawaiian Array for Nanoradian Astronomy project (described in Section 4.3.4.1) would involve the installation of fiber-optic cables between the optical/IR astronomy facilities. The project’s fiber-optic cables would be placed within previously disturbed alignments, such as existing roadways or existing utility corridors. Furthermore, should the project advance, UH may take the opportunity to replace, maintain, or improve other utility infrastructure (e.g., electric, communication, and data) that is aging and, in a few locations, being exposed by erosion, in conjunction with that work to minimize ground disturbance.

5.2.3 Water Supply

Over the term of this Master Plan, potable water will continue to be provided as it is today – trucking water obtained from municipal sources in Hilo to Halepōhaku and the astronomy sites as necessary to satisfy demand.

The continued trend toward remote observing and operation along with the decommissioning of certain astronomy sites has reduced, and is likely to reduce even further, the use of water in the MKSR. Because remote observing and increased automation have reduced the number of people staying at Halepōhaku, water use is substantially lower than when the facility was fully utilized by the astronomy community. The future level of water use at Halepōhaku and the public facilities within the MKSR will depend largely on how access is managed and the extent to which educational and other uses become established. However, most of the alternatives that are being considered would leave water use below historical levels, and none would increase demand beyond that which could be readily satisfied by continuing to truck in water as needed to resupply the existing storage tanks.

All water supply facilities will be maintained regularly over the term of this Master Plan. As with all systems, tanks and piping may need to be refurbished and/or replaced over time. When replaced, minor changes may be necessary to comply with then-current codes and to facilitate the use of products that are available at the time the work is done.

5.2.4 Wastewater Management

There is no centralized wastewater collection system in the UH Maunakea Lands, and there is no plan to develop one over the term of this Master Plan. Accordingly, wastewater will continue to be handled as described below.

MKSR. Wastewater generated at each of the astronomy sites will be managed by each facility through permitted individual wastewater treatment systems. Those facilities that continue operation beyond 2033 will be required to properly abandon their existing wastewater treatment system and replace it with a zero-discharge wastewater system if they had not already done so.

Halepōhaku. All wastewater will be routed to permitted individual wastewater systems (septic tanks or holding tanks) or handled by an alternative method in compliance with applicable regulations.
5.3 FACILITIES TO MANAGE ACCESS

It is UH’s policy to manage access to its Maunakea Lands in a manner that balances public access with UH’s obligation to: (i) protect and conserve the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manage activities to minimize potential adverse effects on the landscape and resources; and (iii) protect public health and safety. The CMP and the UH Maunakea Rules are consistent with and reflect this policy. All plans and regulations implemented by UH will be consistent with Article XII, Section 7 of the Hawai‘i Constitution, which provides that “[t]he State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Island prior to 1778, subject to the right of the State to regulate such rights.” The CMP, building on prior plans that addressed access, provides guidance and identifies many access management methods. After the CMP was approved, the UH Maunakea Rules were adopted; the rules provide authority for UH to implement many CMP provisions related to access management, including, but not limited to, the following:

- Requiring that all persons entering the UH Management Area have completed an “orientation regarding cultural and natural resources, safety matters, and other relevant information” (HAR § 20-26-5).
- Charging fees for entrance and parking (HAR § 20-26-6).
- Installing a gate or other access control structure to manage vehicular access to portions of the UH Management Area (HAR § 20-26-38(a)).
- Closing or limiting access to all or portions of the UH Management Area, when necessary to protect the public from hazardous conditions (HAR § 20-26-38(b)(1)).
- Managing access by private vehicles “...for public safety and welfare, for the protection of resources, and to reduce congestion” (HAR § 20-26-38(b)(2)).
- Mandating public access by shuttle vehicles in lieu of private vehicles (HAR § 20-26-38(b)(2)).
- Establishing public access hours for the UH Management Area, provided that hunting shall be allowed pursuant to DLNR’s hunting rules (HAR § 20-26-38(c)).

UH is moving forward on multiple fronts to exercise the authority that the adoption of HAR Chapter 20-26 granted. Two conceptual phases of managed access are envisioned at this time. The first is described in Section 5.3.1 and the second, which would likely involve the establishment of a shuttle system, is discussed in Section 5.3.2. UH will continue to gather input on its proposed managed access procedures and facilities, adjust them as necessary, and then seek the necessary approvals prior to their implementation. Input was sought during the review of the draft of this Master Plan. Input will continue to be sought from the CMS advisory boards and committees and the community.

36 “Hazardous conditions” are defined as including but not limited to inclement weather conditions, construction or maintenance activities on or near the roadway or at astronomy sites, transportation of wide, heavy, or otherwise hazardous loads, or roadway congestion.” The Rules further provide that notice of road closures or usage limitations must be provided through signage, roadblocks, closed gates, or other means reasonably calculated to provide public notice of the location and extent of closure.
UH will manage the number of vehicles, and thereby people, entering the UH Maunakea Lands in a manner that preserves the ambiance and feeling of the cultural landscape and minimizes adverse effects on the alpine and subalpine ecosystems and other resources. The concepts presented below would achieve this by providing UH the means to manage access so that the number of vehicles (and thereby people) present at any one time would be less than the numbers present during peak periods prior to 2020; 2020 was anomalous due to the significant changes during the COVID-19 pandemic.

**5.3.1 Conceptual Initial Phase Access Management Facilities**

As presently conceptualized, the initial phase of managing vehicular access to UH Maunakea Lands above Halepōhaku will consist of the installation and operation of the modest facilities required to implement the fundamental access-related provisions of the UH Maunakea Rules (e.g., visitors must complete orientation, may park only in designated areas, may not use two-wheel-drive vehicles, etc.). In addition, during the peak visitor demand portion of the day, which has been sunset viewing, the number of certain vehicles able to proceed above Halepōhaku would be capped.

To effectively manage the number of vehicles advancing above Halepōhaku and increase compliance with the UH Maunakea Rules, certain facilities will be needed. The primary new facility may be a kiosk (Figure 5-2) on Mauna Kea Access Road adjacent to Halepōhaku. A gate may also be placed near the staffed kiosk. The portion of the Mauna Kea Access Road currently considered appropriate for these facilities includes where the road is adjacent to Halepōhaku (Figure 5-3). Several operational processes are under consideration as well (Figure 5-2). The location, scope, and design of the facilities, and the operation plan will be established following a detailed assessment of engineering and operational considerations, additional community input, and completion of the appropriate project review process (Part 3 of this Master Plan). Access management prior to completion of these facilities may be accomplished by stationing authorized personnel on the roadway to ensure that those vehicles and people proceeding above Halepōhaku are doing so in compliance with the applicable rules.

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37 It is envisioned that as access management concepts are further developed a number of CMP management actions components can be integrated and enhanced, such as the orientation and invasive species program. This will be one component of how access management will enable UH to further minimize adverse effects on the alpine and subalpine ecosystems and other resources.

38 Current concepts include capping the number of non-2WD vehicles driven by nonresidents during the sunset viewing period (and requiring advance ticket purchase for access), and capping or not capping the number of non-tour, non-2WD vehicles driven by Hawai‘i residents during the sunset viewing period (and requiring free registration). It is UH’s goal to have the outcome of this concept in place by the end of 2023.
Accessory facilities would be needed wherever the kiosk, and potentially a gate, is built. These may include, but may not be limited to: (i) road/intersection improvements to enable “U” turns (this is needed to afford those who approach the kiosk, but are not allowed to proceed up the mountain, to safely turn around); (ii) lighting to provide safety in the vicinity of the access management facilities; (iii) utility connections to provide communications links and electrical power; (iv) signs to provide warnings and instructions to vehicle drivers; and (v) boulders or other barriers to inhibit circumventing the management facility.
Figure 5-3: Conceptual Schematic Indicating Area for Managed Access Initial Phase Facilities

Source: PSI

Mauna Kea Forest Reserve
TMK No. (3) 4-4-015-001

Halepohaku (Onizuka Center for International Astronomy)
TMK No. (3) 4-4-015-012

Extent of Mauna Kea Access Road Currently Considered for Kiosk/Gate of Initial Phase of Access Management

HECO Substation

Ka'alia Trail (aka R-1)
5.3.2 Phase 2 Access Management Facilities Concept

As presently conceptualized, the second phase of managing public access to UH’s Maunakea Lands involves the establishment and operation of a shuttle system. The specific new facilities on UH Maunakea Lands that would be needed to support a shuttle system are not yet well-defined because the shuttle concept has not yet been fully developed. However, they are likely to include, the following:

- The relocation of the facilities installed in Phase 1 or the installation of additional gates and/or kiosks within Halepōhaku or the adjacent portion of the Mauna Kea Access Road.
- Additional parking areas and/or shuttle storage/maintenance space at Halepōhaku, in the unlikely event that the shuttle terminal was located there.
- Shuttle stops, with shelter and signs, at various locations at Halepōhaku and in the MKSR, likely in areas used for visitor parking prior to the start of this phase.
- Accessory improvements such as lighting, utilities, and signs.

In addition to those facilities listed above that would be on UH Maunakea Lands, a new visitor parking area and shuttle base facility would likely be necessary on non-UH land somewhere along the Mauna Kea Access Road between Saddle Road and Halepōhaku. Signs and other accessory improvements would also likely be necessary on non-UH land below Halepōhaku. UH presently anticipates that it would seek to cooperate with the Department of Hawaiian Home Lands (DHHL) or another organization to operate the shuttle, especially if the base facility is on DHHL land. The cooperating organization, along with others in the community, would play a significant role in identifying and siting the facilities required to implement the shuttle phase.

Public input will continue to be sought and the economic viability of a shuttle system will continue to be evaluated and only implemented when warranted.
INTRODUCTION

Part 3 of this Master Plan discusses the implementation of this Master Plan, including the proposal review process, design guidelines, and amendment procedure. Part 1 of this Master Plan provides important context for the understanding of the facilities and land uses that may be proposed over the life of this Master Plan. Part 2 of this Master Plan discusses the facilities and land uses that UH believes may be proposed within the UH Maunakea Lands over the period of this Master Plan.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan.40

The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives outlined in Part 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands.41 The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. Part 3 of this Master Plan includes a framework for UH to consider all proposals, whether they were identified in this Master Plan or not.

Proposals that are considered land uses will first need to be reviewed and approved by UH (Chapter 6). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring a Conservation District Use permit or approval.

39 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

40 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled "Public and Commercial Activities on Mauna Kea Lands" and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP, which is about the management of the UH Maunakea Lands.

41 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
6 PROPOSAL REVIEW PROCESS

The University of Hawai‘i (UH) will only allow a project proposed on UH Maunakea Lands to proceed to subsequent planning steps after it has gone through a vigorous review for consistency with all applicable UH policies, plans, procedures, and other considerations outlined in Part 3 of this Master Plan. This rigorous review is necessary due to the area’s sensitive environment and public interest in proposals on UH Maunakea Lands.

All proposals that represent new land uses on UH Maunakea Lands, or that would substantially alter previously approved land uses on these lands, must complete the internal UH review and approval process described below before proceeding. These include but are not limited to: (i) work on any astronomy site, roadway, utility line, building, or other type of structure; (ii) excavation, filling, or change to surface topography; and (iii) planting or removal of vegetation. Proposals that are limited to interior work in an existing structure (e.g., projects that do not alter the exterior of an existing facility, such as installing a new instrument on a telescope) are typically not land uses; consequently, this review and approval process would not apply.

The internal UH review process outlined in this chapter is a framework for how UH determines whether a land use proposal within the UH Maunakea Lands may proceed with seeking permits and approvals from other regulatory authorities. The process begins with an entity submitting a proposal (Section 6.1) and then one or more phases of review depending on the proposal’s suitability, scope, and scale. During the Phase 1 review (Section 6.2), the proposal is screened and assessed to establish whether it is appropriate for the UH Maunakea Lands. All proposals considered appropriate then advance to the phase 2 review (Section 6.3) and potentially other phases of review.

The process laid out here is separate from other applicable agency permits and approvals. After UH approves a particular land use proposal, the proposal proponent will need to obtain a permit or approval from DLNR or BLNR under DLNR’s Conservation District Rules (HRS Chapter 183C/HAR Chapter 13-5) since all UH Maunakea Lands are also within the Conservation District. Because UH Maunakea Lands are state lands, the State environmental review process is triggered (HRS Chapter 343/HAR Chapter 11-200.1). Consultation with DLNR’s State Historic Preservation Division is usually required, given the potential effects on historic property and Native Hawaiian burials (HRS Chapter 6E). These are just a few examples of the permits and approvals that may be required from other regulatory agencies. The UH review process laid out here does not replace any subsequent required approvals. However, the UH review process is intended to complement and support subsequent requirements and ensures early planning, community outreach, and agency coordination before a proposal is advanced.

42 For purposes of this Master Plan, “land use” has the same meaning as defined under DLNR’s Conservation District Rules at HAR § 13-5-2, which provides as follows: “‘Land use’ means: (1) The placement or erection of any solid material on land if that material remains on the land more than thirty days, or which causes a permanent change in the land area on which it occurs; (2) The grading, removing, harvesting, dredging, mining, or extraction of any material or natural resource on land; (3) The subdivision of land; or (4) The construction, reconstruction, demolition, or alteration of any structure, building, or facility on land.” As further provided under HAR § 13-5-2, the term land use “does not include the taking of . . . wildlife that is regulated by state . . . hunting laws nor the gathering of natural resources for personal, non-commercial use or pursuant to Article 12, Section 7 of the Hawaii State Constitution or section 7-1, HRS, relating to certain traditional and customary Hawaiian practices.”
6.1 SUBMITTING A PROPOSAL

A project proponent can officially submit its proposal by completing and submitting the most recent version of a Project Proposal Form, which will be available online after this Master Plan is finalized. UH and entities that have existing facilities within the UH Maunakea Lands submit their proposals via a Five-Year Outlook Plan, which they submit annually. The Five-Year Outlook Plan describes all the projects that each entity anticipates undertaking over the next five years.

The required content and format of the Project Proposal Form and the Five-Year Outlook Plan may change over the period of this Master Plan. At minimum, it is expected that these documents will always require the following information:

- Proposal name and purpose;
- Proposal location, if known;
- Proposal description, including: (i) square footage of new interior space (if any), (ii) necessary infrastructure requirements, (iii) construction crew and equipment likely required, and (iv) need for/estimate of area and volume of ground disturbance (if any); and
- Anticipated start date and duration.

6.2 PHASE 1 SCREENING AND ASSESSMENT

The first phase of UH’s review process involves the screening and assessment of a proposal to determine if it is appropriate for siting on UH Maunakea Lands. This phase of review is conducted after a proponent officially submits their proposal; the process is illustrated in Figure 6-1. The Phase 1 screening and assessment centers on the proposal’s ability, based on the concepts provided, to address and/or comply with the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal has the potential to adequately:
  - Benefit from the conditions present within the UH Maunakea Lands;
  - Increase our understanding of Maunakea’s resources;
  - Avoid, minimize, or mitigate reasonably foreseeable adverse impacts to Maunakea’s resources;
  - If applicable, employ world-class technology, research techniques, and design;
  - If applicable and based on input from experts in the proposed field of study, the proposal addresses critical needs and has a high likelihood of contributing important information over its design life; and
  - Honor and benefit the Hawai‘i Island community, particularly with regard to their educational, cultural, social, environmental, and economic needs.
• Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

Figure 6-1: Phase 1 Screening and Assessment Process Flowchart

UH will only entertain proposals that it believes meet the criteria listed above. CMS staff will be the first to assess the proposal and prepare a written and/or verbal report (Step 1). The CMS Executive Director (ED) (or UH Hilo Chancellor designee) will consider the staff’s report and may seek input from others (Step 2). Those sought out for early input will depend on the scope of the

Source: UH
proposal and may include affected units within UH, members of the CMS advisory bodies, regulatory agencies with jurisdiction or expertise, Hawai‘i Island community, Native Hawaiian cultural practitioners, or other interested persons. In general, input will be sought from people that (i) have expertise in the field of research or endeavor being proposed, (ii) have expertise concerning potential impacts, and (iii) operate facilities or conduct activities near the proposed location, if a specific location has been identified. Once a decision has been reached, CMS will prepare a letter to the proposal proponent (Step 3) outlining if the proposal is appropriate for UH Maunakea Lands or not, and if not, why.

At the discretion of the CMS Executive Director, UH may require that the proponent identify a UH sponsor. The input process described above may aid in identifying the proposal sponsor if one has not already been identified. The UH sponsor should be knowledgeable and supportive of the proposal and should assist CMS with future proposal review steps, if necessary. The sponsor should be project specific; for example, an IfA astronomer might sponsor an astronomy project, or the UH Hilo Department of Geography and Environmental Science might sponsor a weather station proposal.

6.3 PHASE 2 PROPOSAL REVIEW

Most proposals found to be appropriate for UH Maunakea Lands during the Phase 1 screening and assessment will advance to Phase 2 review with no action required by the proposal proponent. However, there are a few exceptions: (i) if the proposal proponent was directed to identify a UH sponsor during Phase 1, then the Phase 2 review will only commence once the UH sponsor has been selected; and (ii) if the proposal is a decommissioning, then the proposal proponent shall prepare and submit a Notice of Intent (NOI) and a Phase 1 Environmental Site Assessment (ESA), prior to the commencement of the Phase 2 review.

Figure 6-2 provides a flowchart illustrating the Phase 2 review process. The process involves CMS staff, the CMS Executive Director, CMS advisory bodies, and culminates in a determination by the CMS Executive Director (or UH Hilo Chancellor designee). The primary purposes of the Phase 2 review include:

- **Establishing the proposal type.** There are three proposal types (Type A, Type B, and Type C); Figure 6-3 illustrates the considerations associated with establishing the proposal type. Proposal types are generally determined based on project complexity and impacts, requiring more intense review as we move from Type A to Type C.

- **Obtaining public input.** During this phase of proposal review (and subsequent phases, where applicable), information regarding the proposal will be made available to the public with the MKMB agenda and public input will be sought prior to and during the MKMB meeting. The availability of the proposal information and MKMB’s agenda will be announced via

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43 Project proponents are encouraged to plan their project and work with a UH sponsor before and after the review process. However, any relationship between the proponent and sponsor before or after the project review process is beyond the scope of the review process. In the case of projects proposed by CMS, the project proponent will be the CMS project manager and that individual will not be involved in drafting the staff report in this or subsequent project review processes.
CMS newsletters and/or other means, including measures to inform and involve the Native Hawaiian community.

**Figure 6-2: Phase 2 Review Process Flowchart**

- **Step 1(a).** If required after Phase 1 ESA, **Proponent identifies** a UH proposal sponsor in consultation with CMS; if a decommissioning, **Proponent provides** NOI and Phase I ESA.

  - **Step 1. CMS staff prepares report** that proposes Type (A, B, or C; which is informed by discussions with DLNR; see Figure 6-3), provides comments, and lists draft conditions.

  - **Step 2. CMS ED reviews and approves staff report** and authorizes proceeding to Step 3.

  - **Step 3. Kahu Kū Mauna (KKM) and Environment Committee (EC) review and comment** on proposal and associated CMS report.

  - **Step 4. Maunakea Management Board (MKMB) reviews** proposal, associated CMS report, plus KKM and EC input, gather public input, and provides a recommendation.

  - **Step 5. CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, then **decides** which type each proposal is and what conditions should be imposed, if any, or rejects the proposal; the determination is documented in a letter to Proponent.

- **6.a** If Type A, this determination shall serve as UH’s approval. Proponent can proceed (as applicant) with downstream disclosures, approvals, and/or permits, if any (see Section 6.6.1 and Figure 6-6).

- **6.b** If Type B, proceed to Phase 3 review described in Section 6.4 and Figure 6-4; also see Figure 6-7 for Type B process overview.

- **6.c** If Type C, proceed with Phase 4 agreement and review described in Section 6.5 and Figure 6-5; also see Figure 6-8 for Type C process overview.

- **6.d** Proposal rejected as submitted; Proponent may revise and resubmit.

Source: UH
Figure 6-3: Establishing Proposal Type Flowchart

The UH Type determination is guided by scoping discussions with OCCL under its Conservation District Rules (HAR Chapter 13-5). OCCL will not make a formal determination during scoping on whether no approval, a Site Plan Approval, Departmental Permit, or Board Permit will be required. The purpose of the UH Type designation is to facilitate planning at the earliest practicable time and allocate appropriate staff time and resources to UH’s review.

CMS staff, Proponent, and UH proposal sponsor (if applicable) review HAR Chapter 13-5, as amended, and discuss with OCCL the level of approval that will likely be required for the proposal, if any. CMS staff will then recommend the type of UH review and approval that is appropriate.

- **UH Type A**
  - No approval necessary*
  - Decom, complete and full
  - UH Type A

- **UH Type B**
  - Site Plan Approval
  - Departmental Permit
  - UH Type B

- **UH Type C**
  - Board Permit

Note: * In some cases, no approval is necessary from DLNR/BLNR; however, the Chairperson of BLNR has discretion regarding whether a permit or approval is required and what type of permit or approval is appropriate.

Decom = decommissioning; “complete” refers to complete removal; “full” refers to full restoration.

Source: UH

- **Providing general comments.** During this first detailed review of the proposal, the CMS staff and advisory bodies will provide general comments typically consisting of (i) requests for additional information, such as more detailed descriptions of certain proposal components, field studies, and technical reports; (ii) advice on potential measures to avoid,
minimize, or mitigate proposal impacts; and (iii) if the proposal is a Type C proposal, input on the Implementation Plan content.

- **Identifying potential conditions.** For all proposal types, except Type A, this is the first of at least two UH review cycles. Therefore, the conditions identified during Phase 2 review may be dropped, modified, and/or expanded during subsequent phases of review. In the case of Type A proposals, the conditions identified during Phase 2 review will be fully developed and the only conditions placed by UH on the proposal.

CMS and the advisory bodies have latitude to identify secondary purposes of the Phase 2 review depending on the scope, scale, or type of proposal.

In Step 1 of the Phase 2 review, CMS evaluates the proposal and prepares a staff report that addresses the primary purposes listed above; this includes a recommendation regarding the proposal type – Type A, Type B, or Type C – based on the considerations outlined in Figure 6-3. CMS may confer with the proposal proponent, UH sponsor, DLNR, and others to assist and inform its evaluation. In Step 2, the CMS ED reviews and approves the staff report before it goes to the CMS advisory bodies for consideration in Steps 3 and 4. The advisory bodies review the proposal and CMS’ recommendation and provide their input on the matter to the CMS ED (or UH Hilo Chancellor designee) who then, in Step 5, makes a formal determination regarding the proposal’s type, the proposal comments that will be provided to the proponent, and which conditions will be attached to the proposal. Those decisions will be documented in correspondence from UH to the proposal proponent.

For proposals determined to be Type A, the UH review process ends at the completion of the Phase 2 review. For other proposal types, the UH review process proceeds to Phase 3 or Phase 4, as discussed in Sections 6.4 and 6.5.

### 6.4 Phase 3, Type B Proposal Review

Those proposals determined to be Type B will proceed to the Phase 3 review. The Phase 3 review will commence once the proposal proponent provides any information requested at the completion of the Phase 2 review (Step 1). In the case of decommissioning proposals that intend to completely remove their facility and fully restore the site, the proponent shall provide additional Environmental Due Diligence products (EDD), if any are required, a Site Decommissioning Plan (SDP), and a Site Plan Approval application.

Figure 6-4 summarizes the Phase 3, Type B proposal review process. The process is similar to the Phase 2 review in that the process involves a review and report by CMS staff (Step 2), the review and approval of that report by the CMS Executive Director (Step 3), review and consideration of the proposal by the advisory bodies (Steps 4 and 5) and public (Step 5), and a written statement being provided to the proponent at the completion of the Phase 3 review process (Step 6). The scope of the Phase 3 review is different from the Phase 2 review in that Phase 3 places emphasis on (i) advising the proponent on how best to comply with the CMP; (ii) advising the proponent how to avoid, minimize, or mitigate potential proposal impacts; and (iii) developing conditions that UH will place on the proposal. CMS and the advisory bodies have latitude to widen the scope of the Phase 3 review depending on the scope, scale, or type of proposal. It is also anticipated that
during Step 2, CMS and the proponent will work to resolve, via project clarifications, modifications, or other means, concerns raised by CMS and its advisory entities.

**Figure 6-4: Phase 3, Type B Proposal Review Flowchart**

Step 1. **Proponent provides** CMS with requested information (e.g., more developed plans and Site Plan Approval application) for the Type B proposal, when it becomes available; if a decommissioning proposal (complete removal and full restoration) **Proponent provides** additional EDD products (if any triggered), Site Decommissioning Plan (SDP), and Site Plan Approval application.

Step 2. **CMS reviews** additional information, coordinates with Proponent (who revises proposal, if appropriate), and prepares a staff report.

Step 3. **CMS ED reviews and approves** staff report and authorizes proceeding to Step 4.

Step 4. **KKM and EC review and comment** on additional information and associated CMS report.

Step 5. **MKMB reviews** additional information, associated CMS report, KKM input, Environment Committee input, and public input, then provides a recommendation.

Step 6. **CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, consults with UH Hilo Chancellor, then **provides Proponent written statement with conditions**, if any.

Application and UH conditions agreeable to both CMS and Proponent?

- No
- Yes

Proponent proceeds with obtaining necessary permits and approvals.

- Proponent complies with UH conditions and is applicant for approvals and permits.
- UH signs as landowner where required.
- Proponent consults with UH as appropriate.

Source: UH
If the proposal proponent finds the UH conditions acceptable and both the proposal proponent and UH find the Site Plan Approval application acceptable, then UH will sign the Site Plan Approval application as “landowner” and the project proponent may proceed with obtaining any and all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B proposal.

If the proposal proponent finds the UH conditions unacceptable, then the proposal proponent shall provide additional information and/or modify their proposal and return to Step 1 of the Phase 3, Type B proposal review.

6.5 PHASE 4, TYPE C PROPOSAL REVIEW

Type C proposals are those that are assessed during Phase 2 review as likely to require a departmental (i.e., DLNR) or board (i.e., BLNR) CDUP. Developing plans for and obtaining authorization to construct and operate a Type C proposal on Maunakea is a more intensive process that entails early and continuing coordination with UH, DLNR, the public (with special emphasis on the Native Hawaiian and Big Island communities), and other county, state, and federal agencies.

The Phase 4, Type C proposal review process is summarized in Figure 6-5 and consists of two parts: (i) the development of a proposal-specific Implementation Plan, which are Steps 1 through 6 of the Phase 4 review process; and (ii) the implementation of the proposal-specific Implementation Plan, which is Step 7 of the Phase 4 review process. The proponent shall draft an Implementation Plan for UH’s review and approval. The draft Implementation Plan shall include the proposal’s scope, schedule, budget, and long-term operation and maintenance plan. The draft Implementation Plan shall be proposal specific, but should consider the following topics:

- Roles and responsibilities.
- Anticipated disclosures, approvals, and permits triggered.
- Points of UH/CMS review throughout disclosure, approvals, and permit process.
- Membership/makeup of a proposal-specific Phase 4 review committee.
- Procedure to be followed at each point of UH/CMS review.
- Schedule and review period durations.
- Other proposal specific considerations.

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44 The scope should include measures developed thus far that the proponent has incorporated into its proposal to avoid, minimize, and mitigate potential adverse effects to the cultural landscape, natural resources, and nearby facilities.
Once the proponent has provided the draft Implementation Plan, CMS and its advisory bodies will review and consider it as outlined in Figure 6-5 (Steps 2 through 6), which is similar to the Phase...
2 review process. If the resulting Implementation Plan is acceptable\(^{45}\) to UH and the proposal proponent, the proponent will lead the implementation of that plan. If the proposal proponent or UH find the Implementation Plan unacceptable, the proposal proponent may modify their proposal and return to Step 1 of the Phase 4, Type C proposal review process.

The Implementation Plan should include a proposal-specific Phase 4 review committee that consists of members of the CMS advisory bodies and community members that are knowledgeable in various aspects of the proposal and its potential impacts, including potential impacts to Native Hawaiian cultural practices. It is further anticipated that this committee will review proposal materials, such as design drawings, environmental disclosure documents, and permit applications as the planning and review process progresses.

### 6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE

The following subsections provide an overview of the review process for each proposal type.

#### 6.6.1 Type A

Type A proposals are those expected to have negligible adverse impacts and are anticipated not to require a Site Plan Approval or CDUP. Between 2000 and 2020, most proposals at existing facilities on UH Maunakea Lands were classified as similar to Type A projects because they tended to consist of efforts to keep existing facilities operating efficiently and safely and did not entail structural modifications or ground disturbance.\(^{46}\) This trend is expected to continue in the coming years. Proposals involving the following may be considered Type A proposals:

- Repairs to existing equipment and structures.
- Like-to-like replacement of component external parts.
- Painting and resurfacing.
- Small new external equipment additions (e.g., cameras and weather sensors mounted on existing facilities, roof-mounted solar panels, and signs).
- The installation and operation of small data gathering instruments for periods of time measured in months.

As with all proposals, these Type A proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3). Given the small scale of these proposals and their negligible potential for adverse impact, the review process would be relatively short, on the order of 2 to 4 months. Figure 6-6 provides an overview of the process and timeline for Type A proposals.

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\(^{45}\) The only proposal items being found acceptable at this step are those in the bullet list above related to process. Although the draft Implementation Plan shall include proposal scope, schedule, budget, and other conceptual materials, those items are only included for context and shall not be considered approved or accepted by any actions at Step 6 of the Phase 4 review.

\(^{46}\) The terms Type A, Type B, and Type C were not used prior to this Master Plan. The vast majority of projects at existing facilities were characterized as a “minimal” project over the last 20 years.
Despite being Type A, additional permits and approvals may be required before these projects are implemented. Such permits and approvals are beyond the scope of the UH project review process outlined in this Master Plan and may include, but are not limited to, CDUP and building permits. The proposing party must obtain all required approvals and permits, if any, prior to implementing the project.

6.6.2 **Type B**

Type B proposals are those that are likely to require Site Plan Approvals from DLNR. Between 2000 and 2020, a small proportion of the proposals at existing facilities, generally no more than one or two per year across the 13 astronomy facilities and elsewhere in the UH Maunakea Lands, would likely fit in the category of Type B projects. Proposals involving the following may be considered Type B proposals:

- Modifications to an existing facility that involve a noticeable change in its outward appearance (e.g., a change to a façade or building addition).
- Reconstruction of infrastructure that involves ground disturbance.
- Decommissioning proposals that intend complete removal and full restoration and the incorporation of adaptive management lessons learned from previous decommissioning projects.
- The installation and operation of data gathering instruments for periods of time measured in single-digit years.

As with all proposals, Type B proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then complete a UH Phase 3 review (Section 6.4) prior to proceeding with other disclosure, approval, and permit processes. Figure 6-7 provides an overview of the process and timeline for Type B proposals. It is anticipated that a Type B proposal would take from 8 months to 1.5 years to complete the UH review process if the proposal proponent provides requested information and a draft Site Plan Approval application within 3 months of the completion of Phase 2.

At the conclusion of the Type B process, the proposal proponent is responsible for obtaining all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, Site Plan Approval, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B project.

6.6.3 **Type C**

Type C proposals are likely to require departmental (e.g., DLNR) or board (e.g., BLNR) CDUPs. It is anticipated that Type 3 projects will be rare during the term of this Master Plan. Proposals involving the following may be considered Type C proposals:

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47 The term Type B was not in use before this Master Plan. A small portion of the projects were characterized as “minor” projects of the last 20 years.
Astronomy site modification.
Astronomy site recycling.
Decommissioning projects that do not intend a complete removal and full restoration.
Proposals that require large volumes of earth movement.

As with all proposals, Type C proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then, unlike other proposal types, gain UH acceptance of a proposal-specific Implementation Plan, which the proponent will then implement (Section 6.5). Figure 6-8 provides an overview of the process and timeline for Type C proposals. It is anticipated that Type C proposals would take from 9 months to 1.5 years to achieve approval of their proposal-specific Implementation Plan if the proponent develops a thorough Implementation Plan within three months of completing Phase 2.

Although it is the proponent’s responsibility to comply with all applicable rules and regulations, obtain necessary approvals, and acquire necessary permits, UH will remain engaged throughout the execution of the Implementation Plan so that the proponent can benefit from UH’s knowledge and experience and the input from those on the Phase 4 review committee.
Figure 6-6: Review Flowchart and Timeline: Type A Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Mauna Kea Lands?

No

This chart does not apply (proposal rejected as submitted)

Yes

Phase 2: Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB reviews KKM and EC input, gather public input, and advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Type A, UH review complete (vast majority of proposals over last 20 years)

Type A

Not Type A

This chart does not apply (see Figure 6-7 or Figure 6-8 for Type B and Type C, respectively)

Conditions agreeable to both CMS and Proponent?

No

This chart does not apply (see Figure 6-4, go to Phase 3 review)

Yes

Proponent obtains necessary permits and approvals
- Proponent is applicant
- UH signs as landowner where required
- Proponent consults with UH as appropriate

All permits, approvals, and agreements obtained?

No

Planning, prelim, design, and final design

Yes

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Note: If conditions are not agreeable or permits not obtained, then the proposal moves to Phase 3 review to allow for more discussions and input.

Source: UH
Figure 6-7: Review Flowchart and Timeline: Type B Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

No

Proposal rejected as submitted

Yes

Phase 2: First Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB reviews KKM and EC input, gather public input, and advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Type B

Type B, proceed with Phase 3 review

Phase 3: Type B Proposal Review (see Figure 6-4)
- Proponent provides more information and draft Site Plan Approval application
- CMS reviews, discusses with proponent
- KKM and EC review/comment
- MKMB reviews KKM and EC input, gather public input, and advises
- CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides

CDUA and UH conditions agreeable to both CMS and Proponent?

No

This chart does not apply

Yes

Proponent obtains necessary permits and approvals
- Proponent is applicant
- UH signs as landowner where required
- Proponent consults with UH as appropriate

All permits, approvals, and agreements obtained?

No

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Source: UH
Figure 6-8: Review Flowchart and Timeline: Type C Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

No
- Proposal rejected as submitted

Yes

Phase 2: First Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB reviews KKM and EC input, gather public input, and advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Type C

Type C, proceed with Phase 4 review

Not Type C

This chart does not apply

Phase 4: Type C Proposal Review, steps 1 through 6 (see Figure 6-5)
- Proponent provides additional proposal information and an Implementation Plan with proposal-specific Phase 4 review process
- KKM and EC review/comment on plan
- MKMB reviews KKM and EC input, gather public input, and advises
- CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides

Implementation Plan accepted?

No

Phase 4: Type C Proposal Review, Step 7
- Proponent implements the Implementation Plan
  - Phase 4 proposal review committee
  - Disclosure documents
  - Necessary approvals
  - Permit applications
  - Land agreements/right-of-entry which may require approval of UH BOR and consent of BLNR.
  - Etc.

All permits, approvals, and agreements obtained?

No

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Source: UH
7 DESIGN GUIDELINES

This chapter provides guidelines for astronomy facilities in the MKSR, certain other facilities in the upper slopes of Maunakea, and structures in Halepōhaku. These guidelines, combined with the proposal review process in Chapter 6, are meant to provide early guidance and community input in a manner that prepares proposals for future permits and approvals by minimizing potential adverse effects, applying lessons learned to date, and encouraging consistency among current and future land uses. All proposals should also consider the Future Land Use (FLU) management actions in the CMP. UH will be actively evaluating project designs and specifications from initial concept through final design. This will be true whether a project originates within UH or is proposed by a sub-lessee or other 3rd party.

These design guidelines apply to all structures that will remain on the site once construction activities are complete; they do not apply to temporary items that are only present at the site during construction. For example, while the guidelines discourage the use of fences, during the construction phase, temporary chain-link fencing may be used to delineate and secure the construction site.

7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS

The following specific guidance regarding the management of native excavated material and imported construction material should be followed by all proposed projects within the UH Maunakea Lands unless a proponent demonstrates a compelling reason for an exception and incorporates community input via the CMS advisory groups regarding the exception.

7.1.1 MANAGEMENT OF NATIVE MATERIALS

Excavated native rock and soil material should be managed (i.e., removed and stockpiled) in a way that allows the site to be restored as nearly as possible to its original condition when the facility is decommissioned. Accordingly:

- The amount of native rock material disturbed by a project should be kept to a minimum consistent with the design requirements of the facility.
- Native material should not be crushed, or otherwise altered, more than necessary to move it to a stockpile or amended to the point where it cannot readily be used during the site restoration process unless it consists of massive lava flows and will be used as on-site fill material after it is crushed.
- All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.
7.1.2 **Import of Aggregate Materials**

The importing of aggregate materials shall be kept to a minimum, shall not occur unless material already present in the project area is demonstrably insufficient or of unacceptable quality, and always comply with CMP management actions. Any imported aggregate material must be removed to the maximum extent practicable when the facility is decommissioned.

Where imported aggregate material must be used, it shall not be mixed with native material or be visible at the ground surface after construction is complete, except in parking areas. Material imported for fill and parking area surfacing shall be consistent with the surrounding native material to the degree possible (i.e., have a color like that of the adjacent lava rock or cinder).

In the case of concrete batching, aggregate materials may be imported to the Batch Plant Staging Area and utilized in the production of concrete. It is required that imported aggregate be used for concrete batching instead of native rock.

7.1.3 **Lighting**

Exterior lighting on facilities shall be minimized throughout the UH Maunakea Lands. Only exterior lighting that is identified as “acceptable” by DLNR’s Wildlife Lighting guidelines at the time it is specified in the final project designs shall be acceptable. Thus, all exterior lighting will be fully shielded. All exterior lighting shall also comply with County of Hawai‘i rules related to Outdoor Lighting (Chapter 14, Article 9 of the Hawai‘i County Code). Only Class II lighting is allowed; there will be no decorative lighting in the UH Maunakea Lands. To the extent possible, all exterior lighting will be equipped with automatic motion sensor switches and/or have switches that allow it to be turned off when human activity is not occurring in the area.

7.1.4 **Radio Frequency Emissions**

Maunakea is a premiere location for high frequency radio astronomy. Radio frequency interference (RFI) has the potential to limit the scientific productivity of radio/submillimeter astronomy facilities and can cause interference to the sensitive instruments associated with optical/IR astronomy facilities. Regardless of the transmission frequency, all radio frequency sources can generate RFI that adversely affect the astronomy facilities. There has, therefore, always been standing policy limiting the use of radio transmitters on Maunakea. On the other hand, good communications are essential for safe technical operations. For example, line-of-sight radio transmitters are used to link road ice sensors under poor weather conditions when astronomical observing is unlikely.

Due to these RFI concerns, no radio transmitters should be part of a proposal’s design if they are located in the MKSR. Radio transmitters covered by this guideline include, but are not limited to: microwave repeaters, satellite uplinks, radar, ham radios, CB radios, and wireless voice or data communications networks. Designers should also refer to the Maunakea Observatories Summit Radio Frequency Transmitter Policy, which may be updated from time to time, for additional information.
7.2 GUIDELINES APPLICABLE TO NEW ASTRONOMY FACILITIES IN THE MKSR

Unlike previous master plans, which envisioned expansion of astronomy uses within the summit region, UH has committed to: (i) removing astronomy uses from some of the astronomy sites on which it is presently authorized (i.e., decommissioning); and (ii) confining new astronomy developments (i.e., modification and recycling projects) to the remaining sites on which astronomy facilities are presently authorized. The design guidelines presented in this section apply only to new or substantially modified facilities; they do not apply to continued operation of existing astronomy facilities where no substantial external changes occur or sites that are decommissioned. The fundamental purposes of the guidelines are to (i) encourage designs and the use of materials that are appropriate to the environment and place, and (ii) minimize the chance that modification or recycling projects will unduly degrade the existing cultural, natural, or astronomical resources present on UH Maunakea Lands while also allowing facility sponsors the flexibility needed to modify and/or upgrade their facilities in ways that will enable them to continue to achieve their intended scientific objectives and provide excellence worthy of Maunakea.

7.2.1 ALL IMPROVEMENTS TO REMAIN WITHIN SUBJECT ASTRONOMY SITE

Any new astronomy developments (modifications or recycling) that may occur over the term of this Master Plan will take place on, and be confined to the astronomy sites (Appendix F) that remain available for consideration. One possible exception involves the potential combination of Astronomy Sites 7 and 8 in a specific situation, which is detailed in Part 2, Section 4.3.4.3, of this Master Plan.

Limited grading (i.e., the removal or addition of material that alters topography) beyond the defined astronomy site boundaries may occur only if and where off-site grading occurred when the facility was developed. For instance, where associated driveways and utility connections are not within the astronomy site, grading and other work needed to maintain those appurtenant facilities and build the proposed project may occur. Similarly, limited excavation within previously disturbed areas needed to accommodate complex-level underground infrastructure such as has been proposed for the conceptual Optical Hawaiian Array for Nanoradian Astronomy project (Part 2, Section 4.3.4.1), would be allowed. Past side-casting of material does not qualify an area as having been previously graded or disturbed; only designed cut and fill qualifies an area as previously graded or disturbed.

7.2.2 DOME HEIGHT

UH foresees the possibility that it may receive between one and three facility modification or site recycling requests that involve an increase in dome height during the term of this Master Plan. In all cases, the maximum height of new astronomy facility domes is to be minimized (including by utilizing improvements in technology, materials, and engineering), and project proponents must demonstrate to the satisfaction of UH that whatever dome height they propose is essential to the

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48 In the case of the SMA site, which accommodates dispersed and mobile facilities, no new grading in the non-exclusive easement area other than that needed to maintain existing facilities will be allowed.
facilities’ satisfactory performance and/or to meet the purpose and need of the project. In addition, UH will only consider project proposals where the proposed heights are in accord with the limits described in this section. The limits have been developed to minimize the potential for a new significant adverse visual impact over the life of this Master Plan.

A new dome may not exceed the height of the domes (as measured from the ground on which they are constructed) on nearby/adjacent astronomy facilities that house similarly-sized and similar types of telescopes. A new dome may not appear higher in the sky than does Gemini when viewed from the benchmark location in Hilo\textsuperscript{49} (Figure 7-1) or Subaru when viewed from the benchmark location in Waimea\textsuperscript{50} (Figure 7-2).

A modification or recycling project could substantially increase the height of the new facility relative to the existing facility on the site. For example, Astronomy Site 4 is now home to a 3.2-meter telescope (IRTF) in a dome that reaches 66 feet above existing grade. A recycling of that site to accommodate an 8- or 10-meter telescope may result in a dome height similar to nearby/adjacent astronomy facilities with that size telescope (e.g., Keck and Subaru), resulting in a dome on Astronomy Site 4 that extends from ~110 to ~150 feet above grade. However, not all modification and recycling proposals will likely substantially increase the height of the facility. For example, based on recent conceptual designs, the MSE project would not substantially increase the height of the astronomy facility on Astronomy Site 5 (currently CFHT).

**Figure 7-1: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Hilo**

| Notes: Waiakea Peninsula at Lili‘uokalani Park and Garden is the benchmark location in Hilo. AS = Astronomy Site |
| Source: PSI |
Figure 7-2: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Waimea

Notes: The corner of Lindsey Road and Māmalahoa Highway is the benchmark location in Waimea. AS = Astronomy Site
Source: PSI

Allowing height increases consistent with the limitations in this section minimizes the potential for new significant visual impacts. It also means that the tallest current facilities, as viewed from the benchmark locations (i.e., Gemini, and Subaru), cannot increase their dome heights.

7.2.3 Height of Structures Other than Domes

In general, any new structure other than domes (e.g., support buildings) constructed on an astronomy site may extend no more than 25 feet above grade. However, exceptions may be made allowing portions to reach up to 40 feet above grade if a user can demonstrate to the satisfaction of UH that: (i) a height greater than 25 feet is essential to the satisfactory performance of the facility, or (ii) the project’s purpose and need requires technical components or facilities that require it to exceed a height of 25 feet. These criteria are established to limit visual impacts and the size of mountaintop facilities; it is set at 25 feet because that height allows for a two-level structure, and existing facilities generally do not exceed that height.

Equipment that can readily be placed underground (e.g., water tank) should be so located to minimize the extent of above-ground structures, provided the project can comply with the management of native materials guideline (Section 7.1.1). This does not apply to fuel storage tanks; see Section 7.2.10 below. In general, bulky exterior equipment that cannot be placed underground must be limited to a height of no more than 10 feet above ground level. However, if a user can demonstrate to the satisfaction of UH that this is not technically feasible, then the equipment may be up to 20 feet above ground level.

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51 This limit applies to bulky equipment like tanks, air handlers, and the like. It does not apply to less bulky equipment such as weather stations and sky cameras that may need to be higher to adequately support operations.
7.2.4 LIMIT ON OVERALL BULK OF FACILITIES ON ASTRONOMY SITES\textsuperscript{52}

With technological improvements, an increase in remote observing and robotic operations, and design advancements, UH anticipates that the overall size of astronomy facilities, in proportion to the size of their primary mirror, will continue to decrease. The structures that are constructed as part of any modification or recycling project shall be as compact as is deemed reasonable and safe while achieving the purpose and need of the project.

7.2.5 COLOR OF FACILITIES

Color affects both the visibility and the thermal properties of the facilities. Because of this, in choosing colors for facilities, designers should select ones that minimize the visual impact while also helping to manage the thermal loads on astronomy facilities. Accordingly, based on currently available information regarding available coatings and construction materials, all modification and recycling projects are expected to conform with the guidelines in the following subsections. UH may periodically update these guidelines if new products, materials, or concepts that are more effective become available.

7.2.5.1 Color of Dome and Dome Support Structure

Based on the information that is currently available, domes and dome support structures should adhere to the following color guidelines.

- The rotating dome and shutter should have a reflective aluminum-like coating;
- The base of the dome should be lava- or cinder-colored; and
- All other visible surfaces, including concrete, should be colored with dark earth tones, colors similar to nearby lava flows, or colors similar to nearby cinder.

7.2.5.2 Support Facilities and Equipment Color

Based on the information that is currently available, support facilities and equipment structures/housings should adhere to the following color guidelines.

- The sides and rooftops of all support facilities should be lava- or cinder-colored to match the adjacent surface color; and
- Utility pull boxes and other external equipment should be lava- or cinder-colored to match the surrounding landscape. No raw, uncolored concrete surfaces should be used.

7.2.6 SNOW AND ICE CONSIDERATIONS

Given the snow and ice that is present in the summit region during a substantial portion of the year, all structures and points of ingress/egress should be designed in such a way as to: (i) facilitate access for snow removal equipment; (ii) minimize hazards related to falling snow and ice; and (iii)

\textsuperscript{52} As it is used in this discussion, the term “bulk” refers to the volume (measured in cubic feet above ground level) of all structures and equipment based on external dimensions (inclusive of support building, dome, and other structures/equipment).
avoid/minimize building geometry, walls, and overhangs that are likely to produce snowdrifts that inhibit ingress/egress.

7.2.7 LANDSCAPE PLANTINGS

No landscape plantings of any type are allowed in the MKSR.

7.2.8 PARKING

Parking areas on modified and/or recycled astronomy sites should be kept to the smallest size consistent with the safe and efficient operation and maintenance of the facility which they support while complying with applicable rules or regulations, including the Americans with Disabilities Act of 1990 (ADA). They should also be designed with sensitivity to existing topographic contours so that they minimize the need for earthwork, blend in with the natural landforms, and do not stand out unnecessarily from their surroundings. Parking surfaces should not be paved and should match the surrounding landscape, as discussed in 7.1.2.53

7.2.9 FENCES, WALLS, AND BARRIERS

Fences, walls, and barriers should be used only where needed to protect human health and safety and, in all cases, should be designed to fit as unobtrusively as practical into the existing terrain. Where possible, fence and wall alignments should follow natural contours rather than maintaining a straight alignment without a specific operational need. The use of locally available material is required unless it is incapable of fulfilling the required function. No non-engineered material from outside of the Maunakea summit region shall be used.

Rock walls, including concrete walls with rock veneer, should be used in lieu of fences unless extraordinary circumstances make that impractical. The height of such walls should not exceed 42-inches above ground surface unless: (i) they serve as retaining walls, or (ii) are used to shield equipment, and (iii) do not affect view planes substantially more than the equipment would if the wall were not present.

Like rock walls, barriers, including guardrails, should be designed to minimize visual impact. Accordingly, they should not exceed a height of 42-inches above ground and should have colors and finished surfaces consistent with the surrounding landscape. Guardrails should be wire style, like existing guardrails in the summit region.

7.2.10 FUEL SYSTEM AND HAZARDOUS MATERIALS

New facilities on recycled sites that include bulk petroleum fuel storage for emergency generators will utilize only above-ground, double-walled fuel storage tanks and pipelines with spill containment systems and leak detection. If fuel facilities are relocated or modified as part of an astronomy facility’s major modification project, the fuel systems should use above-ground, double-walled fuel storage infrastructure.

53 It is expected that loading zones may need to be paved; however, paving should be limited.
Modified and new facilities will be designed to minimize the use of hazardous materials to the maximum extent feasible.

7.2.11 WASTEWATER SYSTEM

New facilities in the MKSR (i.e., astronomy facilities constructed on recycled sites) will be required to have zero-discharge wastewater systems. Facilities that continue operating beyond 2033 will also be converted to zero-discharge wastewater systems. The basis of this requirement is unrelated to water quality concerns, it is a requirement to avoid impacts to the cultural landscape.

7.2.12 SOUND GENERATION

Heating, ventilation, and air conditioning (HVAC) and other non-mobile equipment with the potential to generate objectionable noise shall be designed and operated in a manner that limits the amount of sound that emanates from it. This means that, at a minimum, it should comply with the provisions of HAR Chapter 11-46, as applicable.

7.2.13 MAXIMIZE EXTENT OF REMOTE OPERATION

To the extent that it is technically, operationally, and economically feasible, any modified or new facilities should be designed to be operated remotely and/or robotically, and operators should make as full use of these features as is practicable.

7.2.14 EXCEPTIONS TO THE GUIDELINES FOR ASTRONOMICAL FACILITIES

UH may allow exceptions to any of the design guidelines in Chapter 7, except those related to the number of astronomy sites and the height and bulk of facilities on them. For this to occur, the facility designer/operator must demonstrate, to UH’s satisfaction, that strict adherence to the guidelines is likely to prevent the satisfactory performance of the facility or prevent the project from achieving its purpose and need. The facility operator will also need to demonstrate that the proposed exceptions will not result in significant adverse effects.

Requests for exceptions may be approved if they are minor in nature and if the proposed project is otherwise consistent with the overall goals and objectives of this Master Plan. UH will make decisions regarding requested exceptions only after it receives and evaluates input from the Phase 4 proposal review committee, MKMB, the Environment Committee, and Kahu Kū Mauna.

7.3 GUIDELINES APPLICABLE TO OTHER FACILITIES AND USES IN THE MKSR

Other facilities and uses the UH foresees potentially being developed in the MKSR are limited in scope. Examples of other potential facilities and land uses over the life of this Master Plan include:

54 The operation of individual wastewater systems within the UH Maunakea Lands has been permitted by the State of Hawai‘i Department of Health and several experts have concluded that operation of such systems do not pose a risk to surface water quality, groundwater quality, or drinking water quality.
(i) fencing areas of high native biodiversity, (ii) public restrooms and shelters, (iii) public parking, (iv) data collection facilities or instruments, and (v) signs. Such proposed projects will be subject only to the design guidelines contained in Section 7.1 and whatever conditions DLNR/BLNR place on them during the CDUP approval process.

Those designing non-astronomy facilities should consider the guidelines for astronomy facilities in Section 7.2 and seek to comply with them. For instance, non-astronomy facilities should, to the extent possible: (i) be designed like astronomy support facilities and astronomy equipment and not exceed 25 and 10 feet in height, respectively; (ii) have flat or low-slope roofs; (iii) use lava or cinder colors (no untreated concrete); and (iv) have zero-discharge waste systems.

7.4 DESIGN GUIDELINES FOR HALEPŌHAKU (TMK PARCEL 12)

This Master Plan envisions the construction of very few entirely new facilities within Halepōhaku. To the extent that existing facilities are modified, or entirely new facilities are constructed, their scale, architectural style, and design motifs should be consistent with those already present within Halepōhaku’s different areas. More specifically:

- The guidelines in Section 7.1 apply to projects at Halepōhaku.
- Renovations of existing facilities should seek to maintain their present size, with no increase in roofed area allowed unless specifically approved through the applicable proposal review process (Chapter 6).
- In general, any new facility constructed at Halepōhaku should have a scale like that of the facilities already present. In quantitative terms this means: (i) the height of new facilities should not exceed two stories and 30 feet above the finished grade and, like the existing dormitories, be designed to partially disguise that there is a second level; and (ii) total aggregate floor area of the structures present will increase by no more than 30 percent over the amount now present. The only exception to this is at the VIS, should it be established that a larger increase is necessary to improve visitor education and/or the visitor experience.
- The colors, textures, and materials that are used for any new construction should be consistent with those used for the existing structures that are near them, (e.g., dark earthen tones for all walls and roofs and A/C pavement and/or dark-colored concrete for all paving).
- All new plantings should be done using native species adapted to the māmane-dominated subalpine woodlands environment in which Halepōhaku is situated and follow guidance in the CMP.
- To minimize erosion, low impact development practices should be employed.
- Any new fences, walls, and barriers should be designed and constructed in accordance with the guidelines for those in the summit area laid out in Section 7.2.9.

7.5 GUIDELINES APPLICABLE TO ROADWAY, UTILITY DEVELOPMENT, AND SIGNAGE: ALL AREAS

As emphasized throughout this Master Plan, little new development is envisioned over its 20-year term. Because of that, only a small amount of roadway, utility, and other work is expected. The
design of such improvements, as needed, will be in keeping with similar existing facilities, with changes made only where needed to comply with new regulatory requirements or then-current codes. The guidelines in Section 7.1 apply to roadway, utility, and signage proposals.

7.5.1 **ROADWAYS**

To the extent practicable, roadway maintenance, repairs, and restoration will be accomplished without the use of extensive cut slopes or fill and with minimal change to the road right-of-way. Road improvements will be designed to maintain the character and functionality of the existing roads. Road capacity will not be increased unless necessary to address access issues and public safety. Wire style guardrails, like existing guardrails in the summit region, will continue to be used.

7.5.2 **UTILITIES**

Due to radio frequency interference concerns, limited telecommunication services are present in the summit region. These services pre-date radio astronomy on Maunakea and are limited to emergency response purposes, but the enhanced communications capabilities that will be needed during the term of this Master Plan can be provided simply by upgrading equipment within existing buildings.

The existing electrical service is adequate for all the existing facilities. The upgrades to the electrical power system needed to accommodate the development of the TMT project on Astronomy Site 13 have been permitted by the BLNR as part of CDUP-3568, and it is assumed that they will be installed should that facility be constructed. All power lines will be placed underground. Accessory utility structures will be screened or designed to blend into the natural terrain using surface treatments and/or finish colors.

7.5.3 **SIGNAGE**

The *Maunakea Sign Plan* was developed in accordance with CMP management action EO-4. The plan provides guidance for the placing and maintenance of permanent and temporary external signs on UH Maunakea Lands. This Master Plan is intended to ensure that signage does not exceed the lowest level necessary and complies with CMS policies, Conservation District Rules, and other applicable laws and policies on signage. To help implement the signage plan, CMS maintains an inventory of all signs on UH Maunakea Lands. The inventory, which includes all permanent signs, includes the following for each sign: *(i)* a photograph of the sign; *(ii)* the location of the sign (GPS coordinates); and *(iii)* the category of the sign as identified in the Sign Plan.

The *Maunakea Sign Plan* establishes guidelines for the following broad categories:

- **Traffic Control Devices.** The plan calls for signs, markings, and other devices used to regulate, warn, or guide traffic on roads or highways to follow the guidance contained in the latest edition of the *Manual on Uniform Traffic Control Devices* (MUTCD).\(^{55}\)

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\(^{55}\) When MUTCD guidance is unavailable or does not address circumstances on Maunakea, the U.S. Forest Service “Sign and Poster Guidelines for the Forest Service” standards are to be consulted.
• **“Do Not” Signage.** Signage in this category provides information on prohibited activities such as alcohol consumption, tampering with historical sites, littering, or hiking off-trail.

• **Health and Safety Signage.** This category includes signage in the summit area to reinforce awareness of safety issues and hazards (e.g., speeding, using 4-wheel drive and low gear, underage children, pregnant women and persons in poor health, proper clothing, etc.). Health and safety signs or information posters at the VIS should be multilingual and include universal symbols for health and safety issues.

• **Interpretive Signs.** This category includes: (i) trail markers for primary trails; (ii) signage alerting people to areas of sensitive cultural and natural resources and instructing them to stay on trails; and (iii) educational signage providing information to the visitor on what they are seeing.

The *Maunakea Sign Plan* calls for signs to be made from materials that can withstand severe weather (e.g., wind, snow, sun) and to use traditional Hawaiian place names and, whenever possible, include the Hawaiian language along with English. It also contains specific guidance for any sign that directly or indirectly identifies a cultural site, providing that such signs will be considered only after seeking input from the Kahu Kū Mauna Council and the State Historic Preservation Division (SHPD).

The *Maunakea Sign Plan* includes several other relevant provisions, including requirements that:

- Signs be designed to convey a simple, clear message that is appropriate to the user setting.
- Signs, even temporary in nature, be professionally printed and installed.
- Unnecessary signs be removed.
- All signs be designed and installed to withstand sustained 120 mph winds, be resistant to fading from intense solar radiation, and have a finish that is resistant to the abrasion caused by wind-blown cinder.
- Visitor information signs have a brown background with white or yellow lettering and use pictograms when possible, excluding interpretive and wayside exhibits.

Finally, the plan provides detailed guidance regarding the installation and maintenance of signage within the management area. Specific provisions include the following:

- A requirement that no permanent signs be installed without prior approval by CMS (and in some cases DLNR).
- A ban on the routine installation and use of temporary barriers and signs except for emergencies or unanticipated public safety purposes.
- Diligent maintenance of all installed signage. This includes: (i) regular inspection of all signs; (ii) speedy repair or replacement of vandalized, damaged, or missing signs; (iii) keeping signs free of vegetation to maintain visibility; (iv) reviewing sign content annually to ensure continued relevance and accuracy; and (v) reuse of materials from obsolete, damaged, or surplus signs whenever possible.
In addition to these Maunakea Sign Plan guidelines, signs should be multilingual (i.e., English, Hawaiian, and perhaps others) and incorporate iconography to the extent appropriate. This especially applies to the interpretive signs.

7.6 EXEMPT FACILITIES

The construction of structures intended and used for cultural practices, e.g. ahu and other pōhaku structures resembling historic sites, may be subject to Conservation District Rules and other land use regulations. Components of the CMP address cultural practices, but no design guidelines in this Master Plan apply to such structures or facilities.
8 MASTER PLAN ADOPTION, EFFECTIVENESS, AND FUTURE AMENDMENTS

The UH BOR adopts this Master Plan to guide land use decisions by UH in the UH Maunakea Lands. It is intended to provide policy-level guidance and criteria to UH decision-makers. This is not a regulatory document. This Master Plan shall be interpreted and implemented so that it is consistent with applicable laws and agency regulations which shall prevail if there is a conflict.

It is anticipated that this Master Plan will not be amended during its 20-year life because (i) it will not need to be updated as individual projects advance through the project review and approval process and are developed, (ii) it includes, but is not limited to, the land uses most likely to be considered over the life of this Master Plan, and (iii) land uses not specifically identified in this Master Plan can be proposed, approved, and developed under the process adopted in this Master Plan without amending this Master Plan. If specific terms and procedures require an amendment of this Master Plan, proposed amendments would follow the Type B proposal review process (Section 6.6.2, Figure 6-7) with the amendment proponent serving as proposal proponent. Thereby, the proposed amendment would be considered by the advisory bodies, including KKM, EC, and MKMB, where public input is heard. Approval would advance beyond the CMS ED to the UH Hilo Chancellor, then UH President, and lastly the BOR, where public input is again heard.

This Master Plan replaces and supersedes past plans adopted by UH related to Maunakea, including the Mauna Kea Science Reserve Master Plan, adopted by the UH BOR on June 16, 2000.
9 REFERENCES


Hawai‘i Administrative Rules (HAR) § 13-5-2, *Conservation District*.


University of Hawai‘i


University of Hawai‘i at Hilo


APPENDIX A. SUMMARY OF DRAFT MASTER PLAN OUTREACH, INPUT, AND RELATED PLAN REVISIONS

Public Announcements and Outreach

The efforts UH made to inform the community that the Draft Master Plan was available for review and comment are summarized in Volume II. Briefly, those efforts included:

- Announcement sent via U.S. mail to 245 individuals, groups, and agencies.
- Announcement sent via email to 596 individuals, groups, and agencies.
- Press releases on September 12, October 3, and October 25, 2021, which resulted in information regarding the Draft Master Plan and how to comment on it appearing prominently in many publicly available newspapers, radio spots, TV news stories, and website news stories. They were also posted on the UH social media feeds, websites, and CMS e-newsletters.
- Additional efforts were made to reach out to many of those that had participated in the review of earlier drafts of this Master Plan, those UH understood to be leaders of the Hawai‘i Island kia‘i, and others.

Those efforts followed months of lengthy discussions that the planning team had with individuals and small groups regarding the Pre-Draft Master Plan. Those discussions provided invaluable guidance in that helped shape the Draft Master Plan and are summarized in Appendix B.

Comments Received

All comment received on the Draft Master Plan is provided in Volume II. It includes input received via:

- The Konveio website commenting tool. A total of 473 comments from roughly 491 individual commentors were received via this website tool.
- The Konveio comment form. A total of 363 unique individuals submitted comment forms.
- U.S. mail and email. 17 unique entities submitted comments via either U.S. mail or email.
- Toll-free hotline recordings. 26 individuals shared their mana‘o via the hotline.
- Emails received from 123formbuilder.com, which was not established by UH. A total of 573 emails were received.

Summary of Comments, Responses, and Plan Revisions

This section summarizes the key comments that were submitted to UH during the Draft Master Plan review period (September 12 through October 26, 2021). It is not an exhaustive list and paraphrases the comments. The comments, followed by UH’s responses, and the revisions made to the Master Plan to address them, are broken down by Master Plan part below.
Related to Part 1: Foundations

- **Comment:** The Astronomy Goal should include an objective for the incorporation/including of Native Hawaiian astronomy traditions and learning and work for greater inclusiveness in the field of astronomy.
  
  - **Plan revision:** Added the following objective to the Astronomy Goal (Section 1.4.2): “Support diverse representation within astronomy by encouraging support for a broad range of students, researchers, and staff seeking to learn and work on Maunakea.”

- **Comment:** Although many found the Education Goal a welcome addition, others were concerned that it would result in additional, unnecessary activity within and visitation to the UH Maunakea Lands, to the point that the resources would be adversely affected.
  
  - **Response:** UH’s intent is to achieve the Education Goal while not losing sight of the Stewardship Goal. It is UH’s policy that land use proposals, the subject of this Master Plan, and the programs that utilize them, contribute to achieving as many of the goals as possible. They may focus on one of the goals, such as the Education Goal, but are intended to also address other goals and objectives in this Master Plan’s framework. The kinds of educational activities that are envisioned involve small groups well-educated about the mountain, and carefully overseen. Those conducting the work would abide by the CMP management actions and contribute valuable data and insights that would inform conservation actions, thus contributing to the Stewardship Goal.
  
  - **Plan revisions:** The following objective has been added to the Education Goal (Section 1.4.3), “Impart an understanding of Maunakea to all who work and visit here of the historical, cultural, and environmental context of the mauna, so that they may see the mauna as a teacher and understand their role in contributing to the stewardship of this special place.”

- **Comment:** Why can’t the strategy (Section 1.5) to convert to zero-discharge waste system be implemented prior to 2033?
  
  - **Response:** There is no reason why this cannot happen prior to 2033 and UH will provide incentives for astronomy facilities to make the transition well before 2033. Currently, planning and design for such a conversion at JCMT (Astronomy Site 11) is ongoing and it is anticipated that the conversion will take place prior to the end of 2022.

  This is equally true for strategy 9 regarding entering new agreements with the MKOs selected to operate beyond the end of 2033.

  - **Plan revisions:** None.

- **Comment:** The criteria listed in Section 2.1 (and elsewhere) should include consideration of how or if the proposal will benefit Native Hawaiians.
  
  - **Response:** The UH Maunakea Lands are public lands and cannot be managed in a manner that unreasonably benefits or harms a group based on age, gender, race, religion, ethnicity, or other attribute.

  - **Plan revisions:** The following was added to the criteria: the extent to which the proposal will adequately “Honor and benefit the Hawai‘i Island community,”
particularly with regard to their educational, cultural, social, environmental, and economic needs.”

- Comment: The Master Plan should not assume that UH will receive a new land authorization and some statements in the Master Plan do not adequately address what would need occur in the event that UH does not obtain a new lease.
  - Response: This Master Plan assumes a new land authorization will occur so that it can inform the community about land uses UH anticipates if a new land authorization is forthcoming. It is well understood that, if a new land authorization is not granted, then it is unlikely that substantial new land uses would be proposed and the existing facilities would need to be decommissioned or their owners obtain individual/alternative land authorizations prior to the end of 2033.

- Plan revisions:
  - The underlined text in the following was added to Section 2.3, “If UH does not obtain a land authorization that allows for its management and use of the UH Maunakea Lands beyond 2033, then under the General Lease UH must surrender and deliver possession of the land to BLNR and any improvements on the lands must be removed or disposed of by UH or, with the approval of the BLNR chair, improvements may be abandoned in place. Once the lands under the General Lease are surrendered, among other possibilities, BLNR and the Governor may consider issuance of a new entitlement (whether by lease, executive order, or other authorization) to UH or another entity. The Mauna Kea Working Group, created by House Resolution No. 33, H.D. 1 in 2021, issued a report during the development of this Master Plan entitled, He Lā Hou Kēia Ma Mauna a Wēkea: A New Day on Mauna a Wākea. The report discusses the creation of a new entity. UH’s response to the Working Group’s report is included in Volume 2.”
  - The underlined text in the following sentence was added to Section 2.4.3, “As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR should a new land authorization allow for the continuation of astronomy on Maunakea beyond the end of the current lease.”

Related to Part 2: Physical Plan

- Comment: More details regarding the land uses should be included in the Master Plan.
  - Response: This Master Plan is a framework for UH decision-making regarding proposed land uses over the next 20 years. It provides the same or greater level of detail regarding uses as previous approved plans. This Master Plan provides conceptual-level information regarding facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Further details cannot be provided at this time because (i) certain land uses, especially those regarding astronomy, are likely to be developed and proposed by non-UH entities; and (ii) it will take time for UH and other entities to identify opportunities and then work with the community to refine proposals, such as those related to broader education,
expanded research, and managing access. In all cases, those proposing new or different facilities, whether for astronomy or other purposes, will seek community input early in the decision-making process.

- Plan revisions: None.

- Comment: The Master Plan should call for the removal of all astronomical facilities from Maunakea and its restoration, as nearly as possible to its original state, no later than the end of 2033 (the end of the existing master lease).
  - Response: This suggestion directly conflicts with the Foundation (Part 1, Chapter 1) of this Master Plan and most specifically the Astronomy Goal (Section 1.4.2). The Foundations and the Astronomy Goal arise from the State of Hawai‘i’s expressed interest in astronomy and UH’s broad education mission.  
  - Plan revisions: None.

- Comment: The Master Plan should not limit the number of astronomical facilities on Maunakea.
  - Response: This suggestion is in conflict with commitments spelled out in the Draft Master Plan (Section 4.1.2). Those commitments are based on UH’s dedication to its prior statements pertaining to a reduction in the number of astronomy facilities in the MKSR, regardless of whether an astronomy facility advances on Site 13.
  - Plan revisions: None.

- Comment: The TMT project should be cancelled, and Astronomy Site 13 eliminated from future consideration for any astronomy facility.
  - Response: A next generation large telescope has been identified in UH’s plans for Maunakea since the late 1990s and has been a high priority for the national and international astronomical research community since then as well. To achieve the Astronomy Goal over the coming decades, a next generation large telescope will be necessary. The TMT project or the use of Astronomy Site 13 by a similar project in the future, is the only place to locate such a facility within the Master Plan’s framework.
  - Plan revisions: None.

- Comment: The VLBA should not be decommissioned.

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56 In 1964 the Hawai‘i State Legislature passed Senate Concurrent Resolution 16 (SCR 16) stating that the “State of Hawai‘i and its citizenry are most desirous and willing to co-operate and aid in the promotion of our nation’s space program and research to the benefit of the County of Hawai‘i, the state and the nation.”

The state’s Conservation District Rules (HAR Chapter 13-5) specifically indicate that astronomy facilities are an identified land use in the conservation district.

The Hawai‘i 2050 Sustainability Plan (2021) and Hawai‘i Statewide Comprehensive Economic Development Strategy (2016), which draw on HRS § 226-10, 226-103, and 226-108, emphasize that it is the State’s policy to promote economic diversification and innovation to retain a workforce educated in science, technology, engineering, and mathematics (STEM).

- Response: Decommissioning VLBA before the end of 2033 has been part of UH’s plans for many years and has been a fundamental assumption in UH’s decision-making process.

- Plan revisions: A note was added to Sections 4.1.2 and 4.3.2.2 that states, “Among the reasons the VLBA is specified for decommissioning in this Master Plan are (i) it was identified in the Decommissioning Plan (2010) that VLBA would be decommissioned prior to the end of the current lease term, and (ii) Condition 11 of CDUP HA-3568 (2017) states that the VLBA is to be decommissioning by December 31, 2033.”

• Comment: As the 2000 Master Plan and the CMP did, this Master Plan should emphasize that the bulk of the MKSR should be conserved and undeveloped with any land uses.

- Response: The Master Plan makes it very clear that UH intends to maintain all the presently unused land within the MKSR in its natural state and will, in fact, oversee the decommissioning of certain astronomy sites. For example, the second paragraph of Chapter 4 says, “UH expects there to be few new facilities developed within the MKSR over this Master Plan’s duration. Nearly all land uses will occur in previously disturbed areas and where facilities exist today. Very little new ground disturbance will occur within the MKSR over the 20-year period; the vast majority of the MKSR will remain wilderness. Excluding roads and utilities, less than half of one percent of the approximately 11,288-acre MKSR has been disturbed/developed.”

Throughout the other sections of Chapter 4, this Master Plan stresses that all land uses should preferentially be sited in areas previously disturbed. Related to astronomy facilities specifically, this Master Plan has always limited future development to a subset of the 14 Astronomy Sites, which are described and depicted in Appendix F.

- Plan revisions: The following commitment was added to Section 4.1.2: “No land uses will be considered on major undeveloped cinder cones (pu‘u) in the MKSR; this includes Pu‘uala, Pu‘uhoaka, Pu‘ulilinoe, Pu‘umāhoe, Pu‘umākanaka, Pu‘upoepoe, and Pu‘ula.”

• Comment: The new educational telescope should not be placed at Halepōhaku.

- Response: As explained in Section 3.3, the UH BOR Resolution 19-03 dated November 6, 2019 (Appendix D), directed that Astronomy Site 9 (Hōkū Kea) be decommissioned and that “…a new educational telescope facility for the University of Hawai‘i at Hilo shall be established at Halepōhaku or elsewhere.” UH’s present intent is to site the NET within Halepōhaku near complementary UH facilities and infrastructure, on previously disturbed ground where no native species are present, enhancing student/teacher access, consistent with its intended use. Other sites on Hawai‘i Island were considered for this small telescope but all were deemed inferior for a range of reasons including high humidity, lack of infrastructure, and difficult access, among others. UH has commissioned a planning and design team for the proposed NET project that will lead the project review process, prepare an HRS Chapter 343 environmental document that will more fully describe the alternatives and why they were eliminated, and prepare a Conservation District Use Application (CDUA) for the facility that UH will submit to DLNR.

- Plan revisions: None.
Comment: The Master Plan should not include facilities that will increase the number of visitors to Maunakea. Instead, it should call for the cessation or reduction of non-Hawaiian visitor access to the summit area; it is too special a place to allow that.

- Response: The UH Maunakea Lands are public lands and access to them cannot be managed in a manner that unreasonably benefits or excludes a group based on race, religion, or ethnicity.

- Plan revisions: Statements have been added as follows that clarify the intent of the managed access facilities (and future managed access policies):
  - Section 3.1.1 recognizes ʻImiloa as a resource for learning about astronomy, culture, and natural resources associated with Maunakea. UH will direct people to ʻImiloa, which is on the UH Hilo campus, rather than build facilities or repurpose existing facilities in the UH Maunakea Lands that would substantially parallel ʻImiloa’s.
  - Section 5.3 states “UH will manage the number of vehicles, and thereby people, entering the UH Maunakea Lands in a manner that preserves the ambiance and feeling of the cultural landscape and minimizes adverse effects on the alpine and subalpine ecosystems and other resources.” It goes on to say that the concepts presented in Sections 5.3.1 and 5.3.2 would “achieve this by providing UH the means to manage access so that the number of vehicles (and thereby people) present at any one time would be less than the numbers present during peak periods prior to 2020; 2020 was anomalous due to the significant changes during the COVID-19 pandemic.”

Comment: Many expressed concern that the access management facilities would limit access for cultural practitioners.

- Plan revisions: A statement has been added to Section 5.3 that clarifies “[a]ll plans and regulations implemented by UH will be consistent with Article XII, Section 7 of the Hawai‘i Constitution, which provides that ‘[t]he State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Island prior to 1778, subject to the right of the State to regulate such rights.”

Related to Part 3: Proposal Review, Design Guidelines, and Implementation

Comment: The proposal review process does not include adequate opportunity for community input, particularly input by Native Hawaiians.

- Response: The strategies (Section 1.5) clearly indicate that UH is and will continue to seek diverse community representation, including by Native Hawaiian organizations, on its volunteer advisory groups (e.g., KKM, EC, and MKMB). Those advisory groups have been, and will continue to be, involved in the early review and evaluation of land use proposals submitted to UH. All MKMB meetings, including those where proposals will be considered during Phase 2 proposal reviews (Section 6.3) and subsequent phases of review, will be open to the public. UH will continue to make special efforts to reach out to members of the Native Hawaiian community so that they feel more fully engaged in the review process.
In addition, public input is called out in the flow charts (Figure 6-2, Figure 6-4, and Figure 6-5) for the various phases of review whenever MKMB considers a proposal.

- **Plan revisions:** The following bullet has been added to Section 6.3, “**Obtaining public input.** During this phase of proposal review (and subsequent phases, where applicable), information regarding the proposal will be made available to the public with the MKMB agenda and public input will be sought prior to and during the MKMB meeting. The availability of the proposal information and MKMB’s agenda will be announced via CMS newsletters and/or other means, including measures to inform and involve the Native Hawaiian community.”

- **Comment:** The guidelines for new astronomical facilities should be revised with more stringent limitations on size and not specify a reflective aluminum-like coating surface material/color for astronomy facility domes.

- **Response:**
  - Section 7.2.1 has always indicated that any new astronomy developments (modifications or recycling) that may occur over the term of this Master Plan will take place on the defined astronomy sites that remain available for consideration.
  - The guidelines concerning dome height in Section 7.2.2 are intended to limit the height of new facilities within the MKSR to the maximum extent practicable while achieving their purpose.
  - The guideline in Section 7.2.5.1 related to dome color identifies a reflective aluminum-like coating. That guideline is based on information about (i) the best available technologies for matching internal and exterior temperatures so as to minimize thermal distortion/degradation of viewing conditions, and (ii) community input regarding measures to reduce visual impacts during the development of the design for the TMT project. This section also states that UH may periodically update these guidelines if new products or materials that are more effective become available.

- **Plan revisions:**
  - A commitment in Section 4.1.2 was expanded to state “**All future astronomy facilities will remain within the astronomy sites (Appendix F) that remain eligible for future astronomy facility use.**” In this way, future users of this Master Plan will not overlook this important aspect of land use control.
  - Appendix F was added and provides descriptions and depictions of the relevant astronomy sites.
  - Section 7.2.5.1 has been revised to include that new “concepts” may become available related to dome color because comments suggested domes not be monochromatic.

### Issues and Concerns Beyond the Scope of this Master Plan

Through the extensive community outreach that took place during the preparation of this Master Plan, it continued to be clear that the community has strong feelings related to past and future activities within the UH Maunakea Lands that were beyond the scope of this Master Plan. The
primary topics are listed below, and policy makers are urged to consider them in their broader decision-making related to Maunakea.

- The existing lease between UH and DLNR and/or the CDUP for the TMT project (HA-3568) should, or should not, be terminated.

- A new land authorization that would allow for astronomy to continue on Maunakea beyond 2033 should, or should not, be awarded in the future.

- UH is, or is not, the appropriate entity to manage the cultural landscape and natural resources in the summit region or access to this sensitive area.

- The UH Maunakea Lands were “stolen” from the Hawaiian Kingdom.
APPENDIX B. SUMMARY OF PRE-DRAFT OUTREACH AND SUBSEQUENT MASTER PLAN ADJUSTMENTS

Summary of Participants

This section summarizes those who participated in the review of earlier pre-draft versions of this Master Plan. Their participation typically included (i) reviewing of earlier versions of the entire document, summaries or outlines of the Master Plan, or components of the plan or UH’s governance structure; and (ii) meeting with UH representatives one to three or more times. Those that participated are summarized in the table below. Their participation should not be construed to indicate that they endorsed the pre-draft plan.

UH reached out to many community members not listed below, including representatives of Native Hawaiian organizations, who either did not respond or declined to participate. Parties who declined or did not respond are not identified.

Those Who Participated in the Review of the Pre-Draft

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<th>UH System</th>
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<tr>
<td>David Lassner, President</td>
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<td>Michael Bruno, Provost</td>
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<td>Vassilis Syrmos, VP</td>
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<td>Hawai‘inui‘kea School of Hawaiian Knowledge, Dr. Jonathan Osorio</td>
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<td>UH School of Ocean &amp; Earth Science &amp; Technology, Dr. Donald Thomas</td>
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<td>UH School of Travel Industry Management, Dr. Daniel Spencer</td>
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<td>UH Hilo Chancellor</td>
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<td>UH Hilo Chancellor’s Maunakea Advisory Committee</td>
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<td>Hanakahi Council</td>
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<td>UH Hilo Physics &amp; Astronomy Dept.</td>
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<td>‘Imiloa</td>
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<td>Very Long Baseline Array</td>
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<tr>
<td>James Clerk Maxwell Telescope</td>
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<tr>
<td>Submillimeter Array</td>
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<tr>
<td>TMT</td>
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<tr>
<td>Association of Universities for Research in Astronomy</td>
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</tbody>
</table>

**Elected Representatives**

- Office of Sen. Schatz
- Office of the Governor
- Rep. Yamane
- Rep. Saiki
- Rep. Tarnas
- Office of the Mayor

**Federal Agencies**

- Army PTA
- Hakalau Forest, USFWS
- US Forest Service, Dept. of Agriculture
- NSF

**State Agencies/Organizations**

- DLNR
- Hawai‘i Tourism Authority
- Department of Hawaiian Home Lands
- HDOT
- DLNR-Division of Forestry and Wildlife, Hawai‘i Island
- Office of Planning
- Mauna Kea Forest Restoration Project
- Mauna Kea Watershed Alliance
- Ahu Moku

**Community Members/Organizations**

- PUEO
- Anonymous
- Ross Wilson
- Kepa Maly
- Gerald DeMello

**Commercial Tour Operators**

- Super Vacation Hawai‘i
- Arnott’s Lodge & Hiking Adventures
- Taikobo Hawai‘i
- Mauna Kea Summit Adventures
- Hawaii Forest & Trail

**Visitor, Commerce & Economic Development**

- Island of Hl Visitors Bureau
- Japanese Chamber of Commerce
- Some members of the Hawai‘i Island Economic Development Board (HIEDB)
Master Plan Elements stemming from Pre-Draft Input

The Master Plan evolved dramatically based on the input received from those listed above. The following is a summary of some of the more substantial modifications made:

- The Foreword was added.
- The Education Goal and the associated objectives were added (Section 1.4.3) and highlight indigenous learning among other disciplines.
- UH committed to never reusing five of the astronomy sites decommissioned prior to the end of 2033 for astronomy in the future (previously UH had committed to never reusing three of the sites).
- UH committed that no professional research astronomy facilities will be proposed at Halepōhaku and that the only telescopes present at Halepōhaku will be the proposed NET and portable stargazing telescopes.
- Added a statement that there is some uncertainty regarding whether the TMT project will proceed on Maunakea, and if it does not proceed, this Master Plan will continue to guide UH decisions regarding how to use Astronomy Site 13.
- Adjusted the Phase 1 access management facilities and concept so that, among other things, it includes a kiosk that is staffed during periods of active access management.
- Modified the proposal review process so that, among other things, the UH proposal types are closely aligned with the likely level of Conservation District review and approval the proposal will trigger.
- Clarified the criteria that proposed facilities and developments within UH Maunakea Lands must meet. Added to the criteria that the proposal would need to greatly benefit from the conditions present within the UH Maunakea Lands.
- Added that all facilities within the MKSR will be required to convert to zero-discharge facilities if they are to continue beyond 2033.
- Stated that, beyond their educational purpose, the facilities at Halepōhaku may be available to support conservation actions on Maunakea outside of the UH Maunakea Lands.
APPENDIX C. SUMMARY OF MISSION, VISION, AND VALUES EXPRESSED IN VARIOUS UH SYSTEM, UH HILO, IFA, AND ʻIMILOA PLAN DOCUMENTS

The following subsections review the mission, vision, and values expressed in plan documents of UH units and programs that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH’s activities on Maunakea.

UH System

As stated in the BOR Policy (RP) 4.201:

“The primary mission [emphasis added] of the university is to provide environments in which faculty, staff and students can discover, examine critically, preserve and transmit the knowledge, wisdom, and values that will help ensure the survival of present and future generations with improvement in the quality of life.

In carrying out that mission, it is the basic purpose [emphasis added] of the university to afford all qualified people of Hawaiʻi an equal opportunity for quality college and university education at both undergraduate and graduate levels.

As the only provider of public higher education in Hawaiʻi, the university embraces its unique responsibilities to the indigenous people of Hawaiʻi and to Hawaiʻi’s indigenous language and culture. To fulfill this responsibility, the university ensures active support for the participation of Native Hawaiians at the university and support vigorous programs of study and support for the Hawaiian language, history, and culture.

Within its unique geographical location, the university will serve as a leader in how it stewards the resources of the islands and the world for the benefit of all. The university shall be a global leader and model for the integration of sustainability throughout its teaching, research, operations, and public service. The university recognizes that an important knowledge base in sustainable island systems resides in the indigenous people of Hawaiʻi and all those for whom Hawaiʻi is home. The university commits to consult with local cultural practitioners and sustainability experts on best practices in sustainable resource allocation and use for the well-being of our communities, our state, and the world. Critical resources include energy, food, water, land and sea as they are integrated with the relationships of family, culture, community, justice, work, and economy in the present and future.

In addition to this overall mission, RP 4.201 also outlines missions for four sub-units within the University: (i) the University of Hawaiʻi at Mānoa; (ii) University of Hawaiʻi at Hilo; (iii) University of Hawaiʻi West Oʻahu; and (iv) University of Hawaiʻi Community Colleges. Two of these, the University of Hawaiʻi at Hilo and Hawaiʻi Community College, are primarily involved in activities related to Maunakea.
RP 4.201 asserts that at “a minimum, the system mission incorporates the vision, purpose, and common values of the university system, emphasizing the fundamental commitment to access and quality.” It emphasizes the importance of respecting and taking advantage of UH’s special position and distinction in Hawaiian, Asian, and Pacific affairs. It affirms UH’s commitment to diversity within and among all racial and ethnic groups served by public higher education in Hawai’i and calls upon the President and the Chancellors to ensure that the unique commitment to Native Hawaiians is fulfilled.\(^{58}\)

RP 4.201, lays out minimum considerations that should be included in separate mission statements for the major units of the University system when presented to the BOR for approval. These considerations are fundamental commitments to the following: (i) access to and the provision of quality education; (ii) special advantage and distinction in Hawaiian, Asian, and Pacific affairs; (iii) diversity within and among all racial and ethnic groups served by public higher education in Hawai’i; (iv) unique commitment to Native Hawaiians; (v) social, cultural, environmental, and economic sustainability in operations; education, research and service; planning, administration, and engagement; and (vi) cultural and community connections.

**UH Hilo**

The University of Hawai‘i at Hilo’s (UH Hilo) mission statement (as expressed in Annex I to SPC 18/10) states that:

*The University of Hawai‘i at Hilo primary mission is to offer high quality undergraduate liberal arts and professional programs together with selected graduate degree programs where need warrants and the university has strong expertise. Programs at UHH are intended to include both theoretical and applied research and to benefit Hawai‘i Island and the state through resource centers, community partnerships, continuing education, and distance learning programs by using Hawai‘i’s natural and cultural environment as a learning laboratory for teaching, research, and service activities.*

The UH Hilo vision statement is:

*We will be acclaimed as a university community that works together across disciplines and diverse perspectives to prepare student scholars to thrive, compete, innovate and lead in their professional lives. We will engage every student in applied learning that links theory with practice in ways that are*

\(^{58}\) The policy calls for that commitment to be fulfilled by: (i) providing positive system-wide executive support in the development, implementation, and improvement of programs and services for Native Hawaiians; (ii) encouraging the increased representation of Native Hawaiians at the university; (iii) supporting full participation of Native Hawaiians in all initiatives and programs of the university; (iv) actively soliciting input from the Native Hawaiian community and specifically Puko’a, the system-wide council of Native Hawaiian faculty, staff and students that serves as advisory to the president; (v) providing for and promoting the use of the Hawaiian language within the university; (vi) providing a level of support for the study of Hawaiian language, culture and history within the university that honors, perpetuates and strengthens those disciplines into the future; (vii) encouraging Native Hawaiians to practice their language, culture and other aspects of their traditional customary rights throughout all university campuses and providing Hawaiian environments and facilities for such activities; and (viii) addressing the education needs of Native Hawaiians, the State of Hawai‘i, and the world at large in the areas of Hawaiian language, culture, and history through outreach.
collaborative with the distinctive natural and cultural environments of Hawaiʻi and promotes responsible participation in a global society.\textsuperscript{59}

The UH Hilo values statement is:

\textit{We value diversity and strive to be student-focused and relationship-oriented. We seek to become more collaborative, intentional, and innovative. We believe that UH Hilo’s diversity offers strength, but that it is only meaningful if we focus on equity, removing barriers to opportunity, fair treatment, and access for all.}\textsuperscript{60}

\textbf{ʻImiloa}

Like CMS, ʻImiloa Astronomy Center of Hawaiʻi (ʻImiloa) is a program organized under the UH Hilo Chancellor. ʻImiloa’s mission is “to honor Maunakea by sharing Hawaiian culture and science to inspire exploration.”\textsuperscript{61}

ʻImiloa’s vision is “ʻImiloa is a place of life-long learning where the power of Hawaiʻi’s cultural traditions, its legacy of exploration, and the wonders of astronomy come together to provide inspiration and hope for generations.”\textsuperscript{62}

As expressed on its website (https://imiloahawaii.org/aboutimiloa), “ʻImiloa means to seek far and is the Hawaiian word for both explore and explorer. Through a Hawaiʻi lens, ʻImiloa explores the people of Hawaiʻi’s place in the genealogy of the Universe and continually seeks, learns, and adapts to the islands’ ever-evolving environment that inspires discovery and innovation through the following three core values:

- \textit{“Kamaʻāina.}  We honor our relationship to land, sea, and sky and share this connection through personal and enlightened hospitality.
- \textit{“Naʻauao.}  We steward our collective knowledge and wisdom as provisional resources that illuminate our community today and tomorrow.
- \textit{“Hanakahi.}  We work together, drawing upon individual strengths and talents to harness our collective synergy and advance the mission of ʻImiloa.”

\textbf{University of Hawaiʻi Community College at Hilo}

As expressed by the Office of Vice President for Community Colleges,\textsuperscript{63} the special mission of the UH Community Colleges within the overall mission of the University of Hawaiʻi, is to:

\textsuperscript{59} https://hilo.hawaii.edu/strategicplan/2021-31/vision.php
\textsuperscript{60} https://hilo.hawaii.edu/strategicplan/2021-31/clarity.php#core
\textsuperscript{61} https://imiloahawaii.org/aboutimiloa
\textsuperscript{62} https://imiloahawaii.org/aboutimiloa
\textsuperscript{63} http://uhcc.hawaii.edu/ovpcc/mission
• Broaden access to postsecondary education in Hawai‘i, regionally, and internationally by providing open-door opportunities for students to enter quality educational programs within their own communities.

• Specialize in the effective teaching of remedial/developmental education, general education, and other introductory liberal arts, pre-professional, and selected baccalaureate courses and programs.

• Provide the trained workforce needed in the State, the region, and internationally by offering occupational, technical, and professional courses and programs which prepare students for immediate employment and career advancement.

• Provide opportunities for personal enrichment, occupational upgrading, and career mobility through credit and non-credit courses and activities.

• Contribute to and stimulate the cultural and intellectual life of the community by providing a forum for the discussion of ideas; by providing leadership, knowledge, problem-solving skills, and general informational services; and by providing opportunities for community members to develop their creativity and appreciate the creative endeavors of others.

• Build upon Hawai‘i’s unique multi-cultural environment and geographic location through efforts in curriculum development and productive relationships with international counterparts in Asia and the Pacific in ways that will prepare their students for the global workplace.

Institute for Astronomy (IfA)

The Institute for Astronomy (IfA) manages the Haleakalā observatories on Maui and the Maunakea observatories on Hawai‘i Island and carries out its own program of fundamental research into the Sun, planets, and stars, as well as interstellar matter, galaxies, and cosmology. The IfA reports to the Office of the Provost at the University of Hawai‘i at Mānoa. It has close links with the UH Mānoa Department of Physics and Astronomy through the astronomy graduate program, and IfA faculty members teach many introductory astronomy courses on the Mānoa Campus.

The IfA’s mission statement is as follows:

The primary mission of the Institute is the production of the highest possible quality of astronomical research; world leadership in the development of ground- and space-based instrumentation; the development and stewardship of the Mauna Kea and Haleakala Science Reserves; and provision of facilities and professional guidance to graduate students of astronomy to enable them to meet curriculum requirements and to gain hands on experience in current astronomical research techniques.64

Its stated goals are as follows:

Explore the origin and nature of the Universe, and of the galaxies, stars, planets, and other matter that it contains.

Develop new technologies for use in ground-based and space-based observatories.

Spread the understanding of astronomy through our graduate program, through undergraduate courses, and through public education.\(^6\)

These goals collectively describe a vision that its work enhances human understanding of the Universe and broadens public understanding of the benefits that stem from the research and technological advancements that they contribute to.

**CMS Management Functions**

The following mission is included in the Comprehensive Management Plan (CMP) approved by the BLNR.

*To achieve harmony, balance, and trust in the sustainable management and stewardship of the Mauna Kea Science Reserve through community involvement and programs that protect, preserve, and enhance the natural, cultural and recreational resources of Mauna Kea while providing a world class center dedicated to education, research, and astronomy.*

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\(^6\) [http://www.ifa.hawaii.edu/ifa2/goals.shtml](http://www.ifa.hawaii.edu/ifa2/goals.shtml)
APPENDIX D. BOARD OF REGENTS RESOLUTIONS RELATED TO MAUNAKEA
To Further Act on Items Relating to Maunakea Management and Amend Board of Regents Resolution 19-03

WHEREAS, at a special meeting on November 6, 2019, the Board of Regents (“Board”) adopted Resolution 19-03, To Act on Items Relating to Maunakea Management, which directed University Administration to accomplish certain actions with specified timeframes, including the decommissioning of five (5) observatories; engaging in community outreach; developing historical, environmental, and cultural education programs; incorporating uses by Native Hawaiian cultural practitioners within the Maunakea Master Plan update; working with the Department of Hawaiian Home Lands to improve infrastructure and access to Maunakea; and improving the University of Hawaii’s (“University”) management function, structure, and operations;

WHEREAS, the Board appointed a permitted interaction group to review and investigate proposed changes to the Maunakea Master Plan and Comprehensive Management Plan (collectively, “Plans”), to follow up on the requested actions in Board Resolution 19-03 and identify any other critical issues pertaining to the Plans, and make related findings and recommendations to the Board;

WHEREAS, the Board concurs with the findings and recommendations of the permitted interaction group, and formally expresses and reiterates the University’s commitment to accelerated efforts to strengthen its cultural stewardship of Maunakea, to astronomy as a cornerstone of excellence for the University and a significant contributor to the island and state economies and workforce, to maintaining high quality environmental stewardship of Maunakea, and to advocate for a management structure that is inclusive, efficient, and protective of all resources on Maunakea; and

WHEREAS, the Board recognizes that the University’s proper stewardship of Maunakea is a long-term, complex, and challenging process, having its own timeframe, due in part, to anticipated and unanticipated factors outside of the University’s control; and

WHEREAS, the Board remains firmly committed to accomplish the completion of all outstanding actions set forth in Board Resolution 19-03 at the earliest possible date.

NOW, THEREFORE, BE IT RESOLVED that Administration be directed to take the following actions:

1. Provide progress updates to the Board every six months regarding:
   a. Progress made towards accomplishment of action items set forth in Board Resolution 19-03
   b. The restructuring plan adopted by the Board in August 2020

2. At a future 2021 Board meeting, provide a comprehensive presentation on astronomy in the State as well as on Maunakea, and related academic programs, to be followed by a Board discussion on the role of the University in astronomy in Hawaii and the world.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the timelines for action specified in Board Resolution 19-03 are amended as follows:
1. Two (2) observatory sites known as the Caltech Submillimeter Observatory (CSO) and Hōoku Keʻa Observatory (HKO) shall be decommissioned; assuming no permitting, weather, and access issues the target date for CSO decommissioning is no later than April 30, 2023, and HKO no later than August 31, 2024. For purposes of this resolution, the term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction.

2. To ensure the prompt availability of a teaching telescope for the University of Hawaiʻi at Hilo Physics and Astronomy Program, a new educational telescope facility shall be established on already developed land at Hale Pōhaku or elsewhere with a target date for permitting, assuming no legal issues, no later than May 30, 2024, and the project being awarded for construction, subject to funding, no later than November 30, 2024. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

3. In collaboration with the Center for Maunakea Stewardship, the ʻImiloa Astronomy Center shall develop and implement a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by September 30, 2021, with implementation targeted to commence no later than December 31, 2021.
University of Hawai‘i Board of Regents

R E S O L U T I O N

RESOLUTION 19-03

To Act on Items Relating to Maunakea Management

WHEREAS, the Board of Regents believes and acknowledges that Maunakea holds a special and important place in the history, culture, and hearts of the peoples of Native Hawaiian ancestry and all of Hawaii; and

WHEREAS, Maunakea has become a symbol of Native Hawaiian self-determination; and

WHEREAS, the Board of Regents recognizes that the University of Hawai‘i (“University”) has been criticized for past and present management of Maunakea; and

WHEREAS, the Board of Regents realizes that any mismanagement of Maunakea is hurtful and disrespectful to the sanctity and inviolability of this place to Native Hawaiians and others; and

WHEREAS, the Board of Regents in response to past criticisms, has clarified its roles, duties, and responsibilities beginning with the adoption of the Mauna Kea Science Reserve Master Plan (2000), Mauna Kea Comprehensive Management Plan UH Management Areas (2009), A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea (2009), Natural Resources Management Plan for the UH Management Areas on Mauna Kea (2009), Public Access Plan for the UH Management areas on Mauna Kea (2010), and Decommissioning Plan for the Mauna Kea Observatories (2010) (collectively hereinafter referred to as “Management Plans”); and

WHEREAS, under said Management Plans, the Board of Regents was principally responsible to fulfill and to carry out all of the recommendations, obligations, and duties promulgated under said Management Plans; and

WHEREAS, the Board of Regents takes its responsibility seriously and hereby affirms its commitment to follow through with the recommendations made in the Management Plans to better manage the impacts of the astronomy facilities and operations upon the natural environment, cultural resources, recreational resources, educational resources, and upon the broader community; and

WHEREAS, the Board of Regents has determined that there remain unmet responsibilities and ongoing compliance issues that have delayed completion of certain recommendations and requirements under the Management Plans; and

WHEREAS, THE Board of Regents therefore desires to remove any delays in compliance and to complete ongoing responsibilities in an accelerated and expeditious manner.

NOW, THEREFORE, BE IT RESOLVED that University of Hawai‘i President David Lassner, University of Hawai‘i at Hilo Chancellor Bonnie Irwin, University of Hawai‘i Vice President for Research and Innovation Vassilis Syrmos, Maunakea Support Services (MKSS), Institute for Astronomy (IfA), Office of Maunakea Management (OMKM), and any other necessary, related management or operation entity be directed to cause the following action items to be accomplished in the timeframes as specified herein below:

1. Two (2) observatory sites known as the Caltech Submillimeter Observatory and Hokulea site shall be decommissioned no later than December 31, 2021. For purposes of this resolution, the
term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction. These will be the first two of five observatories to be decommissioned.

2. A schedule of decommissioning of these two sites will be laid out on a Gantt chart or other similar visual schedule for each of the above sites indicating function and timeframe for each major step in the decommissioning process to achieve completion on or by December 31, 2021. The schedule for decommissioning shall be presented to the Board of Regents on or before its February 2020 meeting.

3. A new educational telescope facility for the University of Hawai‘i at Hilo shall be established on already developed land at Hale Pohaku or elsewhere, as soon as can be permitted, with a target date no later than December 31, 2021, to ensure the prompt availability of a teaching telescope. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

4. On or by December 30, 2025, a determination will be made on the decommissioning of three (3) additional observatory sites based upon compliance with existing or future permits or governmental approvals. If decommissioning is required, the three (3) observatory sites will be identified and reported to the Board of Regents by January 2026.

5. In collaboration with OMKM and MKSS, the ʻImiloa Astronomy Center shall develop a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by August 31, 2020. OMKM shall report to the Board of Regents on its plans and progress to implement said educational programs at its February 2020 meeting. Administration shall make a budget request during the 2020 legislative session to fund this action item.

6. Administration shall make a CIP request during the 2020 legislative session for monies to plan, design, and construct an educational center at Hale Pohaku and/or another appropriate site on Maunakea that will educate visitors on cultural, environmental, and astronomy related topics relating to Maunakea.

7. The Maunakea Master Plan update will accommodate uses by Native Hawaiian cultural practitioners.

8. Following consultation with the Maunakea Management Board, Kahu Kū Mauna, ʻImiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, a reorganization and restructuring plan shall be presented to the Board of Regents as to all advisory, operating, and funding bodies involved in the management of Maunakea by April 2020. The purpose of the plan is to improve operations and management and make it more efficient, effective, and transparent. The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The reorganization and restructuring plan shall be embodied into a governance document that is approved by the Board of Regents.
9. As part of the reorganization and restructuring plan, an in-depth analysis will be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.). The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The results of this analysis, including input from the Maunakea Management Board, Kahu Kū Mauna, ʻImiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, will be presented to the Board of Regents by April 2020.

10. The University will cooperate with the Department of Hawaiian Home Lands (DHHL) to resolve any outstanding issues relating to the roadway infrastructure on Maunakea and will seek opportunities to assist DHHL in its efforts to fulfill its trust duties and responsibilities on the use of its Maunakea lands.

11. As permitted by law, the University should pursue a partnership with an appropriate agency or organization whose primary beneficiary is the Native Hawaiian community, to operate commercial shuttles and tours on Maunakea.

Adopted by the Board of Regents
University of Hawai‘i
November 6, 2019
Affirming Commitment to the Collaborative Stewardship of Maunakea’s Cultural, Natural, Educational and Scientific Resources

WHEREAS, the Board of Regents believes that Maunakea can and should be a global model that provides inspiration, harmony and peaceful co-existence among culture, education, the environment and scientific discovery; and

WHEREAS, the Board of Regents for the University of Hawai‘i embraced the university’s commitment to its responsibilities to Maunakea beginning with the adoption of the Maunakea Science Reserve Master Plan in 2000, the Maunakea Comprehensive Master Plan, Cultural Resources Management and Natural Resources Management Plans in 2009, and the Public Access and Decommissioning Plans in 2010; and

WHEREAS, the board and the university administration also aspire for the university to become a model indigenous-serving university and have committed to principles of sustainability across its mission; and

WHEREAS, the board now hereby affirms the commitment of the university to fulfill its obligations under the plans that have been approved, as well as its broader commitment to the community at large; and

WHEREAS, the board wishes to additionally acknowledge the dedicated work and commitment of the Office of Maunakea Management, the Maunakea Management Board, and the Native Hawaiian Kahu Kū Mauna Council, on behalf of the University of Hawai‘i and the Board of Regents; and

WHEREAS, subsequent to the adoption of the various plans, and with the understanding that collaborative stewardship will continue to be prioritized on all Maunakea lands, the university has now agreed to return approximately 10,000 acres of land on Maunakea that it currently leases that is not used for astronomy, to the State of Hawai‘i; and

NOW, THEREFORE, BE IT RESOLVED that the university intends to return the 10,000 acres to the State of Hawai‘i if possible and pursue a new lease or land tenure for the reduced acreage that will support the continued viability of astronomical research and education in the State; and

BE IT FURTHER RESOLVED that the university work with the State, County of Hawai‘i, Native Hawaiian organizations, and the broader community to evolve collaborative and coherent management and stewardship plans that are consistent with the Comprehensive Management Plan, and that are supported by appropriate administrative rules; and
RESOLUTION

BE IT FURTHER RESOLVED that the university make it a priority, including through additional financial support, to meaningfully increase the education and engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in the areas of astronomy, celestial navigation and exploration; and that such initiatives include an active educational and outreach program that highlights indigenous knowledge as well as enhanced student access to and utilization of Maunakea-based astronomical resources in the field; and

The Board of Regents, through this Resolution, hereby affirms its commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and directs the university to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.

Adopted by the Board of Regents
University of Hawai‘i
August 24, 2017
APPENDIX E. PROCESS TO ESTABLISH WHICH ASTRONOMY FACILITIES MAY CONTINUE AFTER 2033

In addition to the two facilities (CSO and Hōkū Kea) for which decommissioning notices have already been submitted, the VLBA Antenna (Astronomy Site 14) is also identified to be decommissioned as required by Condition 11 of the TMT CDUP. This leaves the following ten facilities with the potential to continue beyond 2033: Subaru, Keck I, Keck II, IRTF, CFHT, Gemini, UH 2.2, UKIRT, JCMT, and SMA. Of these, the 9-operating-facility restriction discussed previously means that, with the TMT occupying Astronomy Site 13 and taking up one of the slots, only eight could continue; two more would need to be decommissioned by the end of 2033.66

At the appropriate time, UH will send letters to each of the facilities that are not both owned and operated by UH, asking them whether they wish to continue beyond 2033 or are committed to decommissioning by that date. The letters will be addressed to the official representatives of the organizations which own and/or operate each facility. In most cases this would be the agency that entered the current sublease. The letters will articulate the expected terms that would apply if their facility were to continue operations after 2033. The organizations will be given ample time to respond. On the same time scale, UH would decide which of the UH-owned and operated facilities it wishes to continue beyond 2033.

The appropriate time for sending the letter will be after the relevant terms of the new land authorization that UH is seeking are known, along with whatever other requirements might apply, some of which could be derived from this Master Plan. UH is already coordinating with the non-UH facilities on the terms that might be applicable in the event of a new agreement, and it is expected that discussions and negotiations will be ongoing up until the time that the facility-owner responses to UH are due. Simultaneously, UH will seek input from advisory bodies, community groups (including Native Hawaiian organizations), and the wider community and will consider the input it receives from these groups and individuals in its decision-making process.

Some level of flexibility needs to be incorporated into planning processes. For example, during the period leading up to the response deadline, some organizations might merge and support only one of their facility’s operations beyond 2033. It is also possible that another organization might propose to take over a facility that the current operating organization decides not to support beyond 2033. These types of arrangements could also occur at other points in the process described in this section.

Once the responses have been received from the organizations responsible for all the facilities and UH has made its own decisions, it will be known whether or not there are more than nine facilities, including TMT, that wish to continue beyond 2033. If there are nine or less, then UH would enter into the new agreements with all the non-UH-owned facilities that have expressed their intent to continue operating. The organizations responsible for the facilities that will not be continuing would begin the decommissioning process in time to complete it by the end of 2033.

66 Without an operational astronomy facility located at Astronomy Site 13, only one, instead of two, would need to be decommissioned by the end of 2033.
If there are more than nine facilities that desire to continue operations beyond 2033, UH will develop and implement a process to determine which facilities may continue beyond 2033. Based on the goals and objectives described in this Master Plan, UH will propose alternative facility combinations for consideration, with each alternative consisting of nine facilities drawn from the up to 11 in the MKSR that may indicate an interest in operating beyond 2033. UH will also propose a decision-making process that will include consultation with the MKOs, with appropriate advisory groups, and with the wider community. This process will include consideration of the scientific value of each facility and its site, environmental considerations, and community interests. The cultural importance of each site will also be factored into UH’s process to identify which facilities will continue operation beyond 2033. UH may propose an advisory committee be established to provide an independent expert assessment of the relative merits of the various facility combinations. Depending on the circumstances, UH may ask the committee for a recommendation in addition to the assessment. The selection process will end with a decision by UH on which facilities will continue after 2033. UH hopes to have this decision made by the end of calendar year 2026, to allow sufficient time for decommissioning under the Decommissioning Plan process.

UH’s target date for having new agreements in place with the continuing non-UH facilities is January 1, 2027. Facilities not continuing would be expected to submit decommissioning NOIs by that date if they had not yet done so. This will allow seven years for them to complete the decommissioning process. Five of the 14 astronomy sites will no longer be eligible for future astronomy facilities, including recycling, once existing astronomy facilities on them have been decommissioned. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of certain astronomy sites may be considered during or after the decommissioning process.
APPENDIX F. ASTRONOMY SITE DESCRIPTIONS AND DEPICTIONS
Appendix F: Astronomy Site Descriptions and Depictions

Notes:
- Astronomy Site descriptions are limited to current use, the Conservation District Use Permit (CDUP) that permits current use, and their approximate area in acres.
- Astronomy Sites 9, 10, and 14 are not described or depicted because they are ineligible for future use by astronomy facilities. Astronomy Site 14 is currently occupied by VLBA and is much lower on the mauna.
- For astronomy sites that have, or had, subleases, the Astronomy Site boundary is based on the sublease. The extents of Astronomy Sites 2 and 3 (Keck 1 and Keck II) are based on dividing the single Keck sublease area into two sites based on drawings included in CDUP applications for the two facilities.
- The boundary of Astronomy Site 7 was established based on the extent of the existing facilities, disturbed area, its relationship/proximity to adjacent uses, and topography.

Source: University of Hawai'i
The name of this plan, E Ō I Nā Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

Adopted by the University of Hawai‘i Board of Regents on Date

Prepared for: University of Hawai‘i

Prepared by: Planning Solutions, Inc.
Ho‘okuleana, LLC

January 11, 2022
TABLE OF CONTENTS, VOLUME 2

1 LETTER SENT VIA U.S. MAIL ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW .................................................................1

2 LIST OF U.S. MAIL LETTER RECIPIENTS .................................................................2

3 EMAIL SENT ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW ..................................................................................8

4 LIST OF EMAIL RECIPIENTS ...................................................................................9

5 PRESS RELEASES AND MEDIA PICKUPS .................................................................24

6 TARGETED OUTREACH LIST FOR INPUT ON THE PUBLIC DRAFT MASTER PLAN ....................................................................................28

7 KONVEIO WEBSITE GOOGLE ANALYTICS REPORT .........................................30

8 INPUT RECEIVED VIA KONVEIO WEBSITE COMMENTING TOOL .....................32

9 INPUT RECEIVED VIA KONVEIO COMMENT FORM ............................................319

10 INPUT RECEIVED VIA U.S. MAIL .......................................................................706

11 INPUT RECEIVED VIA EMAIL ..............................................................................760

12 SUMMARY OF INPUT RECEIVED VIA TOLL-FREE HOTLINE .........................814

13 INPUT RECEIVED VIA EMAIL FROM 123FORMBUILDER.COM .......................821

14 WRITTEN TESTIMONY RECEIVED IN ADVANCE OF DECEMBER 16, 2021, BOARD OF REGENTS MEETING .............................................1398

15 UH RESPONSE TO MAUNA KEA WORKING GROUP’S HE LĀ HOU KĒAI MA MAUNA A WĒKEA: A NEW DAY ON MAUNA A WĀKEA .........................1568

16 WRITTEN TESTIMONY RECEIVED IN ADVANCE OF JANUARY 20, 2021, BOARD OF REGENTS MEETING .................................................................1586
1 LETTER SENT VIA U.S. MAIL ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

September 10, 2021

Subject: Public Draft Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Ka Leo

Dear Stakeholder:

The University of Hawai‘i (UH) requests that you review and provide input and comments on the subject public draft of the Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Ka Leo (Listen to the Voice). In accordance with its name, this draft has been developed with input from a wide sample of stakeholders and the University of Hawai‘i (UH) now seeks feedback from the broader community. UH is accepting input on this draft plan through October 26, 2021. You may access and comment on the draft plan by visiting https://hilo.hawaii.edu/maunakea/.

Input is welcome on any section or topic of the draft Master Plan. Once you access the link above, details will be provided on the website on how to submit your comments via the online commenting tool, U.S. mail, voicemail, or online general comment form.

You are also invited to attend our virtual public forum, the details of which, including how to submit questions, will be announced at a later date.

We appreciate your input and views on this draft Master Plan as it undergoes continuing review. we look forward to receiving comments and recommendations via the methods outlined above. This plan will be updated to address the input and comments received and will then be considered in its “pre-final” form by the Board of Regents (BOR). Once approved by the BOR, the final plan will guide decisions regarding land uses on the mountain for the next twenty years.

Again, we encourage you to access and comment on the draft plan by visiting https://hilo.hawaii.edu/maunakea/.

Thank you for your consideration and participation.

Me ka‘oia‘i‘o,

gregory c chung

Gregory Chung, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship
## LIST OF U.S. MAIL LETTER RECIPIENTS

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3  EMAIL SENT ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

Dear Stakeholder:

The University of Hawai‘i (UH) requests that you review and provide input and comments on the subject public draft of the Master Plan for the University of Hawai‘i Maunakea Lands: E Ō I Ka Leo (Listen to the Voice). In accordance with its name, this draft has been developed with input from a wide sample of stakeholders, and UH now seeks feedback from the broader community. UH is accepting input on this draft plan through October 26, 2021. You may access and comment on the draft plan by visiting https://maunakea.konveio.com/

Input is welcome on any section or topic of the draft Master Plan. Once you access the link above, details will be provided on the website on how to submit your comments via the online commenting tool, U.S. mail, voicemail, or online general comment form.

You are also invited to attend our virtual public forum, the details of which, including how to submit questions, will be announced at a later date.

We appreciate your input and views on this draft Master Plan as it undergoes continuing review and we look forward to receiving comments and recommendations via the methods outlined above. This plan will be updated to address the input and comments received and will then be considered in its “pre-final” form by the Board of Regents (BOR). Once approved by the BOR, the final plan will guide decisions regarding land uses on the mountain for the next twenty years.

Again, we encourage you to access and comment on the draft plan by visiting https://maunakea.konveio.com/

Thank you for your consideration and participation.

Me ka‘ōia‘io,

Gregory Chun, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship

(Sent September 13, 2021 from mkmplan@hawaii.edu)
## 4 LIST OF EMAIL RECIPIENTS

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<td>9/14/2021</td>
<td>Online</td>
<td>Big Island Now</td>
<td><a href="https://bigislandnow.com/2021/09/14/comments-sought-on-draft-of-new-maunakea-master-plan/">https://bigislandnow.com/2021/09/14/comments-sought-on-draft-of-new-maunakea-master-plan/</a></td>
</tr>
<tr>
<td>9/14/2021</td>
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<td>KHPR-FM Radio</td>
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<tr>
<td>9/14/2021</td>
<td>Radio</td>
<td>KHPR-FM Radio; Hawaiʻi Public Radio at 5:00 AM</td>
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</tr>
<tr>
<td>9/14/2021</td>
<td>TV</td>
<td>KITV-ABC; Good Morning Hawaiʻi at 6:00 AM</td>
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**Press Release #2, on 10/3/2021, Regarding Virtual Public Forum**

<table>
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<th>Name</th>
<th>Link</th>
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</thead>
<tbody>
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<td>TV</td>
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<tr>
<td>10/4/2021</td>
<td>TV</td>
<td>KHON-FOX; wake up 2day at 4:30 AM</td>
<td></td>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHII-MNT; wake up 2day at 4:30 AM</td>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHON-FOX; wake up 2day at 4:30 AM</td>
<td></td>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHON-DT2; wake up 2day at 4:30 AM</td>
<td></td>
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<tr>
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<td>TV</td>
<td>KHII-MNT; wake up 2day at 5:00 AM</td>
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<tr>
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<td>TV</td>
<td>KHON-DT2; wake up 2day at 5:00 AM</td>
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<tr>
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<td>TV</td>
<td>KGMB-CBS; Sunrise on KGMB at 6:00 AM</td>
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</tr>
<tr>
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<tr>
<td>10/6/2021</td>
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<td></td>
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<tr>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHI-MNT; wake up 2day at 7:00 AM</td>
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<td>TV</td>
<td>KHON-FOX; wake up 2day at 7:00 AM</td>
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<td>TV</td>
<td>KHONDT2; wake up 2day at 7:00 AM</td>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHNLT Morning Cut-In at 7:25 AM</td>
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<tr>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KFVE-MNT; Sunrise on K-5 at 8:00 AM</td>
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<tr>
<td>10/6/2021</td>
<td>TV</td>
<td>KHI-MNT; Take 2 at 8:00 AM</td>
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<td>West Hawai'i Today: Maunakea master plan update features more information than interaction</td>
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<tr>
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<td>KITV-ABC; KITV Island News at 6:00 PM</td>
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<td><strong>Press Release #3, on 10/25/2021, Regarding end of Public Comment Period</strong></td>
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<tr>
<td>10/25/2021</td>
<td>TV</td>
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<td></td>
</tr>
<tr>
<td>10/25/2021</td>
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<td>10/25/2021</td>
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<td>KHHI-MNT: Take2 at 8:00 AM</td>
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<td>10/25/2021</td>
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<tr>
<td>10/25/2021</td>
<td>TV</td>
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## 6 TARGETED OUTREACH LIST FOR INPUT ON THE PUBLIC DRAFT MASTER PLAN

<table>
<thead>
<tr>
<th>UH System</th>
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<tbody>
<tr>
<td>David Lassner, President</td>
</tr>
<tr>
<td>Michael Bruno, Provost</td>
</tr>
<tr>
<td>Vassilis Syrmos, VP</td>
</tr>
<tr>
<td>Hawaiʻi‘i‘i‘u‘ē‘ē School of Hawaiian Knowledge, Dr. Jonathan Osorio</td>
</tr>
<tr>
<td>Bonnie Irwin, UH Hilo Chancellor</td>
</tr>
<tr>
<td>UH Hilo Chancellor’s Maunakea Advisory Committee</td>
</tr>
<tr>
<td>UHH Student Association</td>
</tr>
<tr>
<td>Hawaiʻi Papa O Ke Ao (HPOKA)</td>
</tr>
<tr>
<td>Hanakahi Council</td>
</tr>
<tr>
<td>Ho‘olulu Council*</td>
</tr>
<tr>
<td>Maunakea Council (Maunakea President’s System-wide Maunakea Advisory Group)</td>
</tr>
<tr>
<td>Maunakea Management Board (MKMB)</td>
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<tr>
<td>Kahu Kū Mauna (KKM)</td>
</tr>
<tr>
<td>Environment Committee</td>
</tr>
<tr>
<td>UH Hilo Physics &amp; Astronomy Dept.</td>
</tr>
<tr>
<td>CMS Team</td>
</tr>
<tr>
<td>*'Imiloa</td>
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<table>
<thead>
<tr>
<th>Astronomy Organizations</th>
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</thead>
<tbody>
<tr>
<td>MKO Directors</td>
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<td>MKO Staff</td>
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<tr>
<td>MKOs (UH and Non-UH) Open Forum</td>
</tr>
<tr>
<td>NASA/IRTF Leadership</td>
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<tr>
<td>TIO Board of Directors</td>
</tr>
<tr>
<td>Tom Soifer/Bob Kirshner (TIO Board Members)</td>
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<table>
<thead>
<tr>
<th>Elected Representatives</th>
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<tbody>
<tr>
<td>Sen. Lorraine Inouye</td>
</tr>
<tr>
<td>Rep. Tarnas*</td>
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<td>Mayor Mitch Roth &amp; Selected Cabinet Members</td>
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<table>
<thead>
<tr>
<th>Federal Agencies</th>
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<td>Army PTA</td>
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<table>
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<th>State Agencies/Organizations</th>
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<tbody>
<tr>
<td>DLNR/OCL</td>
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<td>Department of Hawaiian Home Lands</td>
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<td>DLNR-Division of Forestry and Wildlife, Hawai‘i Island</td>
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<tr>
<td>Mauna Kea Forest Restoration Project</td>
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<tr>
<td>Royal Order of Kamehameha</td>
</tr>
<tr>
<td>E. Kalani Flores</td>
</tr>
<tr>
<td>Anonymous</td>
</tr>
<tr>
<td>Pua Kanahele*</td>
</tr>
<tr>
<td>B. Pualani Case*</td>
</tr>
<tr>
<td>Noe Noe Wong Wilson*</td>
</tr>
<tr>
<td>Kealoha Pisciotta**</td>
</tr>
<tr>
<td>Clarence “Ku” Ching*</td>
</tr>
<tr>
<td>Chase Kahookahi Kanuha*</td>
</tr>
<tr>
<td>Joshua Lanakila Mangaul*</td>
</tr>
<tr>
<td>Paul Neves*</td>
</tr>
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</table>
Ilima Long*
Andre Perez*

### Community Members/Organizations

<table>
<thead>
<tr>
<th>Anonymous Native Hawaiian Community Member*</th>
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<tr>
<td>Current Events</td>
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<tr>
<td>Hawai‘i Island Rotary Open Forum</td>
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<tr>
<td>Hui o Nā Mōkū, the Stanford Native American Cultural Center (NACC)*</td>
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<tr>
<td>KAHEA*</td>
</tr>
<tr>
<td>Kupu</td>
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<tr>
<td>Mānā Up*</td>
</tr>
<tr>
<td>Master Plan Virtual Public Forum</td>
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<tr>
<td>Mauna Kea Education &amp; Awareness*</td>
</tr>
<tr>
<td>Mauna Kea Forest Restoration Project</td>
</tr>
<tr>
<td>Movers &amp; Shakas*</td>
</tr>
<tr>
<td>Omidyar Fellows*</td>
</tr>
<tr>
<td>Protect Mauna Kea Organization***</td>
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<tr>
<td>PUEO*</td>
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<tr>
<td>Sovereign Council of Hawaiian Homestead Associations (SCHHA)</td>
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<tr>
<td>Vibrant Hawai‘i</td>
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<tr>
<td>Waikīi Ranch Homeowners Association</td>
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<tr>
<td>Waikoloa Village Homeowners Association*</td>
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<tr>
<td>Waimea Community Association Public Meeting</td>
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<tr>
<td>Waimea Community Association, Board of Directors</td>
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### Commercial Tour Operators

| Arnott’s Lodge & Hiking Adventures         |
| Hawaii Forest & Trail*                    |

### Visitor, Commerce & Economic Development

| Hawai‘i Island Chamber of Commerce Hui |
| Hawai‘i Island Economic Development Board (HIEDB) |
| Hawai‘i Island Union Leaders             |
| Hawai‘i Leeeward Planning Conference (HLPC) |
| Kona Kohala Chamber Economic Development Committee |
| O‘ahu Economic Board**                    |
| Sultan Ventures*                         |
| Sustainable Energy Hawai‘i               |

**Notes:**

*No response was received to request to meet.
**Individual/organization declined to meet.
***Email was undeliverable.
7 KONVEIO WEBSITE GOOGLE ANALYTICS REPORT

The following pages provides a summary of the traffic to the https://maunakea.konveio.com/ website during the Draft Master Plan comment period. The report indicates that the outreach efforts summarized above were effective in informing the community about the opportunity to review and comment on the Draft Master Plan.
Audience Overview

Overview

Users

<table>
<thead>
<tr>
<th>Users</th>
<th>New Users</th>
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<tr>
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Sessions

<table>
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<tr>
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<th>Pageviews</th>
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<tbody>
<tr>
<td>5,443</td>
<td>13,333</td>
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Avg. Session Duration

| 00:02:35 |

Pages / Session

| 2.45 |

Vistors

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<th>Returning Visitor</th>
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<td>14.6%</td>
<td>85.4%</td>
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Top Channels

<table>
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<tr>
<th>Channel</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Referral</td>
<td>38.3%</td>
</tr>
<tr>
<td>Direct</td>
<td>36.2%</td>
</tr>
<tr>
<td>Social</td>
<td>17.4%</td>
</tr>
<tr>
<td>Email</td>
<td>14.6%</td>
</tr>
<tr>
<td>Organic Search</td>
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Country Users % Users

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<thead>
<tr>
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<tbody>
<tr>
<td>United States</td>
<td>3,520</td>
<td>88.42%</td>
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<tr>
<td>Mexico</td>
<td>265</td>
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<tr>
<td>Canada</td>
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<tr>
<td>Japan</td>
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City Users % Users

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<tbody>
<tr>
<td>Honolulu</td>
<td>827</td>
<td>20.00%</td>
</tr>
<tr>
<td>Hilo</td>
<td>344</td>
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</tr>
<tr>
<td>Los Angeles</td>
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<tr>
<td>La Paz</td>
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</tr>
<tr>
<td>Kailua-Kona</td>
<td>151</td>
<td>3.65%</td>
</tr>
<tr>
<td>Kaneohe</td>
<td>94</td>
<td>2.27%</td>
</tr>
<tr>
<td>Tijuana</td>
<td>92</td>
<td>2.23%</td>
</tr>
<tr>
<td>Waimea</td>
<td>69</td>
<td>1.67%</td>
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</tbody>
</table>
8 INPUT RECEIVED VIA KONVEIO WEBSITE COMMENTING TOOL
*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.
#001

Posted by Jennifer Shiiba on 10/26/2021 at 3:28pm [Comment ID: 488]

Agree: 0, Disagree: 0

I support Mauna Kea's mana and home as a sacred place for Kanaka Maoli and native species to thrive for generations to come.

#002

Posted by shennessey on 10/25/2021 at 9:31pm [Comment ID: 369]

Type: Suggestion
Agree: 0, Disagree: 0

In ʻōlelo Hawaiʻi, "E ʻŌ I Ka Leo" implies that the voice you are "listening to" is singular -- that there is only one voice worth hearing. ("E ʻŌ I Nā Leo" would mean "listen to the voices.") It was made abundantly clear that UH is only listening to one voice--its own--when it silenced the public from commenting or providing oral testimony during the Maunakea Master Plan virtual forum on October 6. With limited avenues for the public to provide a voice, it was clear that this was just a public relations stunt.

#003

Posted by mcpeekm on 10/06/2021 at 11:27am [Comment ID: 107]

Type: Correction
Agree: 0, Disagree: 0

Listen to the voice is really not very accurate as many Hawaiians...the host culture has made their voice known against all and Amy constructiom utop Mauna Kea. 10,000+ Hawaiians and Community members have voiced their opinion. Queen Liliʻuokalani said The voice of the people is the Voice of God.

#004

Posted by Anonymous on 10/20/2021 at 4:28am [Comment ID: 201]

Type: Correction
Agree: 0, Disagree: 0

NONE OF THIS SHOULD HAPPEN, STOP DESTROYING SACRED LANDS YOU DISGUSTING EXCUSES OF HUMAN BEINGS. YOU DO NOT HAVE THE RIGHT TO DESTROY HISTORY AND CULTURE LIKE YOU HAVE FOR THE PAST 60 YEARS

#005

Posted by dgarcia2727 on 10/26/2021 at 7:38am [Comment ID: 408]

Type: Suggestion
Agree: 0, Disagree: 0

You have co-opted the use of the Native Hawaiian language to further your desecration and colonial control over Mauna Kea. You claim that your goal is to "Listen to the Voice" while actively ignoring the thousands of land defenders that showed up on the Mauna in 2014, 2015, and 2019, as well as thousands of petition signatures in
opposition to TMT, which is still considered in your plan. I recommend that you first listen to the majority of Native Hawaiians that have been showing up since 1968 against your claim to stewardship of land that does not belong to you.
#006

Posted by Isa Arriola on 10/21/2021 at 5:00am [Comment ID: 210]

Type: Correction
Agree: 0, Disagree: 0

Pot fabot stop the desecration of Mauna Kea, prioritizing the needs of Kanaka Maoli needs to take precedence over these plans.

#007

Posted by Michael Kahalehau on 09/13/2021 at 12:12pm [Comment ID: 39]

Type: Suggestion
Agree: 0, Disagree: 0

Aloha and e kala mai. My ohana is against any type of building on Mauna Kea. That is sacred land, and does not need any telescopes or such modern things
E Ō I KA LEO (LISTEN TO THE VOICE)
TABLE OF CONTENTS

PART 1: FOUNDATIONS

THE UNIVERSITY OF HAWAI‘I COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP ........................................................................................................... VII
E Ō I KA LEO (LISTEN TO THE VOICE) FOREWORD ........................................................................ X

1 MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES ........... 1-1
1.1 UH’S MISSION AND PURPOSE ON MAUNAKEA .............................................................. 1-1
1.2 UH’S VISION FOR MAUNAKEA ......................................................................................... 1-2
1.3 CORE VALUES ASSOCIATED WITH MAUNAKEA ........................................................... 1-2
1.4 GOALS AND OBJECTIVES ............................................................................................... 1-3
  1.4.1 Responsibly Steward Maunakea for Present and Future Generations ....................... 1-3
  1.4.2 Maintain the University’s & Maunakea Observatories’ Status as World Leaders in Astronomy 1-5
  1.4.3 Diversify Educational Pursuits and Expand Research Opportunities ........................ 1-6
  1.4.4 Seek Balance and Mutually Beneficial Relationships Among Maunakea’s Stakeholders 1-7
1.5 STRATEGIES ...................................................................................................................... 1-7

2 BACKGROUND AND CONTEXT ..................................................................................... 2-1
2.1 PURPOSE OF THIS MASTER PLAN ................................................................................. 2-1
2.2 LAND AREA OVER WHICH THIS MASTER PLAN APPLIES .............................................. 2-2
2.3 MASTER PLAN IMPLEMENTATION ................................................................................... 2-3
2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS .......................................... 2-5
  2.4.1 Recreational Activities in the Plans .............................................................................. 2-5
  2.4.2 Commercial Activities in the Plans ............................................................................. 2-5
  2.4.3 Astronomy Facility Decommissioning and Site Restoration in the Plans .................... 2-6
2.5 CAPITAL IMPROVEMENT APPROVALS AND FUNDING .................................................. 2-6

LIST OF FIGURES
Figure 2-1: UH Maunakea Lands .......................................................................................... 2-4

LIST OF TABLES
Table 2-1: Examples of Distinction between Master Plan and CMP Content .................... 2-5
# ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
</tr>
<tr>
<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
</tr>
<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
</tr>
<tr>
<td>CDUA</td>
<td>Conservation District Use Application</td>
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<tr>
<td>CDUP</td>
<td>Conservation District Use Permit</td>
</tr>
<tr>
<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<tr>
<td>CIP</td>
<td>Capital Improvement Project</td>
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| CMP      | Comprehensive Management Plan

1 Unless stated otherwise, the term “CMP,” as used in this document, is inclusive of (i) the *Mauna Kea Comprehensive Management Plan, UH Management Areas* dated April 2009; (ii) the *Natural Resources Management Plan for the UH Management Areas on Mauna Kea. A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated September 2009; (iii) *A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea, Ka‘ohe Ahupua’a, Hāmākua District, Hawai‘i Island, State of Hawai‘i, TMK: (3) 4-4-015: 09, 12, A Sub-Plan for the Mauna Kea Comprehensive Management Plan* dated October 2009; (iv) the *Public Access Plan for the UH Management Areas on Mauna Kea* dated January 2010; and (v) the *Decommissioning Plan for the Mauna Kea Observatories, a Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated January 2010.
#008

Posted by **oks4567** on **10/19/2021** at **4:09pm** [Comment ID: 189]

*Type: Suggestion*

Agree: 0, Disagree: 0

STOP further damage of Indigenous lands and people. End further land “development,”
which actually only causes further damage. Native Hawaiians do not want further
damage to Hawaii
KKM  Kahu Kū Mauna
MKMB  Mauna Kea Management Board
MKO  Maunakea Observatories
MKSR  Mauna Kea Science Reserve
MKSS  Maunakea Observatories Support Services
MOA  Memorandum of Agreement
MSE  Maunakea Spectroscopic Explorer
MUTCD  Manual on Uniform Traffic Control Devices
NAR  Natural Area Reserve (DLNR)
NOI  Notice of Intent
NPDES  National Pollutant Discharge Elimination System
NRMP  Natural Resources Management Plan (a sub-plan of the CMP)
OCCL  Office of Conservation and Coastal Lands (DLNR)
OHANA  Optical Hawaiian Array for Nanoradian Astronomy
OMKM  Office of Maunakea Management
PV  Photovoltaic
SDP  Site Decommissioning Plan (a sub-plan of the CMP)
SHPD  State Historic Preservation Division (DLNR)
SMA  Submillimeter Array
TMK  Tax Map Key
TMT  Thirty Meter Telescope
UC  University of California
UH  University of Hawai‘i
UH Hilo  University of Hawai‘i at Hilo
UKIRT  United Kingdom Infrared Telescope
VIS  Visitor Information Station
VLBA  Very Long Baseline Array
VPA  Vice President for Administration
THE UNIVERSITY OF HAWAIʻI COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP

Aloha:

In preparing this Master Plan, we have been enlightened by the insights of Native Hawaiian cultural experts, humbled by the criticisms from disappointed and angry community members as well as past audits, and blessed with the knowledge from painful lessons learned from prior steps. We have been informed through community engagement during our decade-long rulemaking process and initiatives such as Envision Maunakea.

Consequently, in preparing this Master Plan, we have paid special attention not only to the astronomy programs on which the University of Hawai'i (UH) focused its attention for the first three decades of our stewardship, but also to the place of honor and renown that Maunakea has in the history, culture, and hearts of the Hawaiian people.

This Master Plan incorporates this broadened focus and the major changes UH has made over the past two decades in the way we manage the Maunakea lands we are honored to steward. It differs markedly from the Mauna Kea Science Reserve Master Plan (2000) that it superseded. Key guidance in place today, was absent when the previous Master Plan was prepared, including—the Mauna Kea Comprehensive Management Plan (CMP) and its subplans and the Maunakea administrative rules entitled Public and Commercial Activities on Mauna Kea Lands (HAR Chapter 20-26). These will better equip the managers to steward Maunakea in a way that balances the impacts of astronomy on cultural practices and the environment while amplifying community, educational, and research benefits for all.

From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions. In accordance with guidance from the Board of Regents, in 2019 through Resolution 19-03, the UH was directed to reorganize the existing Maunakea management structure and to address other important outstanding issues. On-the-ground authority now resides with the Center for Maunakea Stewardship (CMS) based on Hawai‘i Island. The restructuring, which covers all operating and advisory units associated with Maunakea, established clearer lines of accountability and improved transparency within UH’s management operations. The restructuring was shaped by input received during more than 90 meetings with advisory...
For decades, Kanaka Maoli have been advocating for the protection of Mauna Kea. In the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to the top to stop the desecration of their sacred mountain. Take care of what’s here on this planet before trying to explore what’s beyond. It is sacred land, respect it.

UH claims to have been informed by Hawaiian cultural experts, but clearly you have not been listening to the voices of the people who want no more construction Mauna Kea. Why should we trust the “stewardship that has damaged so much of the delicate ecosystem and has torn down places of honor? 

Bad choice of words its an attempt to invalidate any comments that don't agree with you by making it seem emotional.

The world will look to UH/Mauna Kea as a beacon of sustainable thinking as it brings into focus the two “eyes” of indigenous and industrial knowledge. One way to appreciate what each “eye” sees is by considering this:

Mathematics shows us that to define something is to confine it. Define and confine are two words for the same action. When we draw a boundary around something to distinguish it from what it’s not, we confine it within our boundary. This understanding can serve as the foundation for a question-based dialog between Western and Hawaiian knowledge systems.

How has Western science defined/confined the cosmos?
How has Hawaiian science defined/confined the cosmos?
In light of each science’s limitations, how might each be helpful to the other?

We can deepen this dialog by looking at the points where indigenous and industrial cultures went their separate ways. One critical point is where metallurgy developed. This powered a quantum leap in tool-making.

The geological absence of metal in Polynesia raises a question: What form does inquiry take in a culture where metallurgy cannot be developed because the only durable tool-making materials are stone, bone, coral and shell?

The metal tools developed by Europeans include swords, plows, hammers and nails, along with the cog-and-wheel technologies that enabled combustion engines to be developed. These tools allowed humans to coerce nature into doing their bidding. Human success at this has come at an unexpected cost. We industrials are now stunned to find that we have somehow coerced nature to the point of climate change.

In the face of this crisis, more and more industrial and indigenous scientists are dialoging, in the hope of finding sustainable solutions. As UH/Mauna Kea increasingly participates in this dialog, I’d like to suggest some questions to deepen the dialog.

For example: In places like Polynesia where industrial coercion of nature has not been an option, has indigenous observation of nature evolved into something like an instrument?

We may not have a definitive answer to this question, but we do know this: Hawaiian observation of nature has been effective enough for Hawaiians to navigate thousands of miles of open ocean with no need of the maps or technologies that industrial science claims are necessary. We also know that Hawaiians regard all of nature as a map. This has allowed them to derive navigational guidance from stars, driftwood, clouds, seaweed, winds, birds, weather, the smell, taste and temperature of the ocean, interference patterns on the sea surface, the olfactory sense of an on-board pig, and the navigator’s testicles. These navigational inputs are then integrated into a picture of their canoe’s position at sea.

This raises a question: Why did Western science assume that map-technology is necessary for navigating open ocean? The answer is that several centuries ago Western science made a mistaken assumption that wasn’t known to be mistaken until computer simulations of whole systems (including oceans) revealed the mistake. The assumption was that an ocean is random and disorderly. On the basis of this assumption, Western scientists further assumed that the only way to navigate open ocean is to superimpose a man-made order onto it. So they devised the longitude-latitude grid, along with maps and technologies to navigate this grid. Ever since, Westerners have been navigating the grid instead of the ocean. In contrast, Hawaiians navigate the ocean.

This raises a question that may further deepen the dialog between indigenous and
industrial scientists:

On what basis has Western science defined order?

My list of questions goes well beyond this, as does my concern for our planet. If I may volunteer on behalf of the UH/Mauna Kea sustainability dialog, I’d be honored. If you need to see my credentials, I can provide them: X

Mahalo for your attention.
Harriet Witt, X

#013

Posted by John on 10/26/2021 at 10:15am [Comment ID: 430]
Type: Suggestion
Agree: 0, Disagree: 0
Look we have to get pass this idea of “Gods”, Deities, The Toothfairy and Santa Claus and educate the general public on the Truth… TMT will bring jobs and much needed income to Hawaii and the Pacific Islanders. We need to spell out exactly how much money will be lost. Also the educational opportunities for those attending UH. We can NOT continue to live in the past where we “lock up” people who say there is a Universe, the earth is round, witches are not real, etc. It is just plain ignorant and unhelpful!!

#014

Posted by Abby on 10/20/2021 at 1:42am [Comment ID: 191]
Type: Correction
Agree: 0, Disagree: 0
If you were really listening to Native Hawaiians then you wouldn’t be pushing forward with your plan at all. Don’t say that you’re listening to and working with natives when you’re still only pushing your agenda.

#015

Posted by pahnelopi G mckenzie on 10/25/2021 at 9:11am [Comment ID: 288]
Agree: 0, Disagree: 0
I hear the honor you offer to the voices of the Hawaiian community and opposition. Yet i seems as you are not listening because the people shared they do not want TMT built and this is still on the table. I know you say lots of people want TMT but that is few in compared of Kanaka Maoli that clearly have stated never. TMT needs to be off the plan as far and Mauna management

#016

Posted by Anonymous on 10/13/2021 at 5:26am [Comment ID: 172]
Type: Suggestion
For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. There have been mass demonstrations in Hawaii and abroad in opposition of the TMT. Thousands have marched and occupied the mountain to stop its desecration.

#017

Posted by dgarcia2727 on 10/26/2021 at 7:52am [Comment ID: 409]
Type: Correction
Agree: 0, Disagree: 0
UH, the State of Hawaii, and the United States have no legal jurisdiction over Mauna Kea or any "ceded"/stolen lands in the Kingdom of Hawaii. Therefore, you cannot claim stewardship over Mauna Kea or any stolen lands within the Kingdom of Hawaii.

#018

Posted by Jonathan K Osorio on 10/09/2021 at 8:34am [Comment ID: 133]
Agree: 0, Disagree: 0
The balancing of community and astronomy interests and needs cannot be the only outcomes. The needs of the mountain, of the ʻāina are no less significant and real

#019

Posted by Anne Friedman on 10/26/2021 at 5:32pm [Comment ID: 490]
Agree: 0, Disagree: 0
The entire opening section is disingenuous as it explains how you’ve “listened” to Native and Indigenous voices without actually listening to them. There is no way to accomplish this project without desecrating a sacred site. It shouldn’t be done and can’t be undone. Don’t do it.

#020

Posted by Lehuakona on 10/25/2021 at 8:01pm [Comment ID: 346]
Type: Correction
Agree: 0, Disagree: 0
It is always easy for opponents to accuse an agency of failures in Seeking, considering, and acting on community input, particularly if the actions are not as the complainant wishes. From my perspective over a decade in observation, there has been strong efforts to reach out to communities, and a magnification of that effort by these groups themselves to ensure that their viewpoints are heard and narrowly focused.

#021

Posted by Lehuakona on 10/25/2021 at 7:54pm [Comment ID: 345]
Type: Suggestion
Please clarify what are the impacts of astronomy on cultural practices? Are you discussing negative or positive impacts from what aspects of astronomy? The Hawaiian culture depended on the timing of astronomical events for cultural practices. To be balanced, please then discuss the impact of cultural operations on astronomy. For instance, during the TMT demonstrations, long planned observations, such as speed of stars orbiting black holes could not be made, and science forever lost that data.

#022

Posted by dgarcia2727 on 10/26/2021 at 8:41am [Comment ID: 412]
Type: Suggestion
Agree: 0, Disagree: 0
The mismanagement of Mauna Kea was more than just "missteps". Take accountability for the decades of harm and desecration to Mauna Kea and the Native Hawaiian people. This has been an issue since 1998 when an audit claimed that “little has been” to protect Mauna Kea’s natural resources which are deeply connected to Native Hawaiian livelihood. https://vimeo.com/247038723 https://www.oha.org/news/oha-files-lawsuit-state-mismanagement-mauna-kea/

#023

Posted by Anonymous on 10/13/2021 at 11:40am [Comment ID: 177]
Type: Suggestion
Agree: 0, Disagree: 0
The indigenous people of Hawai’i have an internationally recognized right to self determination, which includes land management. With that right Kanaka Maoli have vigorously denied and opposed any construction of the TMT on Mauna Kea.

#024

Posted by Casey Kekiwi on 10/12/2021 at 7:23am [Comment ID: 157]
Type: Suggestion
Agree: 0, Disagree: 0
The voice of the Native people need to be heard. Representation matters, who’s sitting at the decision making tables matter, voices of the “minority”, who is actually the majority matters!

#025

Posted by Amber Espinosa-Jones on 10/26/2021 at 6:13pm [Comment ID: 491]
Type: Suggestion
Agree: 0, Disagree: 0
There is no “Envision Maunakea” initiative without the full consent of Native Hawaiian people’s, the indigenous caretakers of the land. The University needs to actively decolonize its practices in 2021 and renounce support of the TMT.
If you truly consulted with Native Hawaiians, why is this project still moving forward despite the protests of those who hold these land sacred? Perhaps throw the whole plan out.
groups, staff, faculty, community members, Maunakea observatories, elected representatives, government agencies, and partners. A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawaiʻi Island kiaʻi.

Our new CMS and the entire UH are fully committed to continuing this journey of deep listening, particularly in the Native Hawaiian community, as we make management and land use decisions. Our Master Plan and concurrent updates to the CMP, which broadened our focus with its cultural resource, natural resource, public access, and decommissioning subplans, are critical steps in demonstrating our commitment to continuous improvement and collaborative stewardship of Maunakea.

Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawaiʻi. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhakalakalana.

With the work and aid of Rangers, natural and cultural resource experts, and community volunteers, such as those who have served on the Maunakea Management Board, Kahu Kū Mauna Council, and the Environment Committee we have addressed and corrected nearly all the deficiencies that were identified in past audits and reviews, and UH is in the process of addressing those that remain such as updating plans, improving our education programs, and actively decommissioning telescopes from the mauna. The Department of Land and Natural Resources’ relatively recent independent evaluation reported that Maunakea and its natural and cultural resources are now among the best managed and protected lands in the State. The awards that we have received from the Historic Hawaiʻi Foundation and the Kona Kohala Chamber of Commerce are further affirmation of the substantial progress UH has made over the last 20 years since we began to respond in earnest to the criticisms of our early stewardship. With the approval of the Maunakea administrative rules and the internal management reorganization UH is better prepared today to care for Maunakea.

UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawaiʻi’s economy and employment opportunities. With significant presence on three islands, UH’s Institute for Astronomy is one of the nation’s largest and finest university astronomy programs, a source of pride to Hawaiʻi, because the astronomy facilities on Maunakea stand as the most respected and productive in the world.

We believe that the lessons we have learned and the strides we have made uniquely position UH to provide balanced stewardship of Maunakea lands. As such, we are
Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. The way to work with Native Hawaiian people is to NOT build the TMT. Period.

For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of their sacred mountain. This land, legally belongs to the Kanaka Maoli and therefore they should be the ONLY voices at the table getting to make decisions about this attempted destruction.

The way this reads, the way it is stated... I believe is what is creating much conflict in all issues related to UH managing land at the Mauna and Native Hawaiians not liking how things are done....what if UH wasn't centering themselves as the institution whose reputation and legacy was going to to be continued? What if this was true partnership? Most progressives at this point in time - including most university students- are coming to realize that indigenous peoples are the best land managers and conservationists. They are also the original biologists, navigators, and astronomers. Let them co-lead! This isn't about UH - this is about Hawaii, and Hawaiians, and unique ecology of our part of the South Pacific. Partnership. True partnership - co-lead all of this. Place the Hawaiians at the center of the science. Place their children starting in kindergarten at the center of this astronomy economy.

Imiloa could become the base point by which education and access 'tickets' for tourists
and non-Hawaiian residents could be distributed. Look into how Catalina Island Conservancy uses their town base office as education, registration for trail access, gift store, restaurant... There would need to be west side/Kona side site established to manage tourist traffic coming from that side.... All of this would help manage numbers of people and peak traffic, enforce a baseline level of education before accessing the Mauna, and eliminate the need for increasing the the visitor center operations at Mauna Kea. (Hawaiian native residents I leave to their own input for how they would play into managed access)

#031

Posted by jmakyoku on 10/26/2021 at 7:20pm [Comment ID: 498]
Type: Correction
Agree: 0, Disagree: 0
This paragraph privileging economic profit directly conflicts with your alleged prioritization of Maunakea in the previous paragraph. While you're pursuing a race to be the technologically best and most productive profit engine, your arrogance and hunger for power is clearly felt by the people you're sacrificing, misrepresenting, and silencing.

#032

Posted by Veronica Ohara on 09/13/2021 at 11:22am [Comment ID: 34]
Agree: 0, Disagree: 0
As a Kanaka Maoli I am greatly relieved to see that the UH is committed to astronomy on Maunakea. At this time there are college students and high school students in Hawaii, and of Hawaiian ancestry who are interested in pursuing astronomy and working at our observatories. Hawaii’s astronomy program has led in scientific discoveries for over 30 years, the program was built out of the destruction of Hilo by the tsunami. Somehow we found our way, without much help, sheer determination and the belief that we could be more than a tourist destination and a military facility. I am older than astronomy on Maunakea and I appreciate all the efforts to build a scientific center in Hawaii. My hope is this will continue under dedicated leadership from the Hawaiians and scientific community.

#033

Posted by MDenepe on 10/26/2021 at 7:34pm [Comment ID: 504]
Type: Correction
Agree: 0, Disagree: 0
UH & CMS claim they are fully committed to continuing this journey of deep listening, especially to kanaka maoli, if this is true then the MKSR land would be returned to the rightful stewards of the sacred Mauna, the kanaka maoli. E O I Ka Leo- listen to the voice when they tell you it is ceded crown land & to give the land back.
#034

Posted by Jonathan K Osorio on 10/09/2021 at 12:54pm [Comment ID: 141]
Agree: 0, Disagree: 0
And we will know that you really care about Mauna Kea when you cancel the TMT

#035

Posted by Abby on 10/20/2021 at 1:49am [Comment ID: 192]
Type: Suggestion
Agree: 0, Disagree: 0
This is towards the University making land management decisions, the highlighter tool isn't accurate. You should not be making land management decisions at all. If you really want to listen and work with Natives, put that land back in their stewardship. You have a golden opportunity to show the world a better way to accomplish scientific advancement without destroying cultural land. If you cannot achieve your goals without destruction then that science is not ready to be explored; if the technology causes harm it shouldn't be used.

#036

Posted by Cassidy Bennett on 10/25/2021 at 1:24pm [Comment ID: 305]
Type: Correction
Agree: 0, Disagree: 0
There has not been "balanced and beneficial land use" on Mauna Kea, both because it has been harmful and because it is on stolen land.

#037

Posted by Jonathan K Osorio on 10/09/2021 at 12:54pm [Comment ID: 140]
Agree: 0, Disagree: 0
See previous comment

#038

Posted by Abby on 10/20/2021 at 1:52am [Comment ID: 193]
Type: Correction
Agree: 0, Disagree: 0
They aren't doing a good job at land preservation anywhere else so that isn't much of an accomplishment, definitely not something to be proud of.

#039

Posted by dgarcia2727 on 10/26/2021 at 9:27am [Comment ID: 418]
Type: Suggestion
Agree: 0, Disagree: 0
The people you owe loyalty and commitment to are Native Hawaiians which lands you
are working upon and profiting off of.

#040

Posted by Jonathan K Osorio on 10/09/2021 at 12:41pm [Comment ID: 137]
Agree: 0, Disagree: 0
Ultimately, the University and all of these Mauna Kea agencies will need to address and answer the question of why that effort was unsuccessful and what it means. It is also not true that the entire UH community is committed to listening

#041

Posted by dgarcia2727 on 10/26/2021 at 9:16am [Comment ID: 414]
Agree: 0, Disagree: 0
The rangers on Mauna Kea have been known to brutalize and harass Native Hawaiian land defenders while desecrating cultural sites. There is no aid these rangers provide other than more violence to Native Hawaiians.
http://kahea.org/blog/10-to-1-opposed-and-they-still-passed-it

#042

Posted by Kahea on 10/13/2021 at 8:59am [Comment ID: 175]
Type: Correction
Agree: 0, Disagree: 0
The Native Hawaiian community has held mass demonstrations both on the Mauna and nationwide, displaying our opposition to the building of TMT. The Kingdom of Hawai‘i was never legally annexed to the United States, meaning that if the TMT were to be built, it would be done so on STOLEN Hawaiian lands: a Land that Kānaka Maoli consider being especially sacred. If you were truly listening to us (Native Hawaiians) as you have stated, then this document would not exist because all efforts to build the TMT would have been put to an end years ago.

#043

Posted by jmakyoku on 10/26/2021 at 7:02pm [Comment ID: 497]
Type: Correction
Agree: 0, Disagree: 0
I criticize the very role of UH as the authority to make such decisions about how to use land it stole

#044

Posted by chuckgrigsby on 09/14/2021 at 1:07pm [Comment ID: 48]
Type: Suggestion
Agree: 0, Disagree: 0
For those of us who do not speak Hawaiian, please tell us what kia’a means.
It is 2021, with the CMP & UH having a bad track record with kanaka maoli and as so called stewards of ceded crown land yet the UH is COMMITTED to ensuring that the astronomy program is one of the best in the world at the expense of continued extractive and settler colonialism, erasure of kanaka maoli, further desecration of sacred land, & excessive police force when kapuna protect their sacred aina. If the UH truly listened as they claim in this DRAFT, then the UH would divest all involvement when it comes to ceded crown lands.

These are good things, and it is clear that none of these efforts would be made by the university or a technology consortium if it were not for the telescopes. That continually reminds us aloha ʻāina of the tradeoffs., and puts TMT squarely in the calculation
seeking a new land authorization that will, if granted, allow UH to continue along our path of continuous improvement in collaborative stewardship and management while supporting a world-class astronomy program, with fewer astronomy facilities, in a manner that honors the mauna.

If UH is removed from our overall stewardship responsibilities, whatever entity assumes control may adopt a different plan with different priorities and goals. In that case, until a new steward is selected, and a new plan adopted, we are confident that this Master Plan will continue to guide balanced and beneficial land use decisions on Maunakea, just as the CMP will continue to guide management decisions until such time as that plan may be replaced. UH is hopeful that we can maintain a role in ensuring a respectful astronomy program with the excellence that honors Maunakea.

In closing, we wish to thank the many people who have helped and continue to help us fulfill our responsibilities to Maunakea. They include the Rangers who protect everyone’s safety on the mountain, the CMS staff and many volunteers who have helped to restore and preserve the environment, the researchers who continue to expand our vision of the universe, and our faculty, students, and alumni, especially Native Hawaiians, who have all taught us important lessons. We appreciate the voices of those within the UH and in the community, including those who have disagreed with our decisions and positions; even when we are not aligned, we learn from their beliefs and their passion. Finally, we are grateful to the many stakeholders who have shared their input in preparing this Master Plan and we look forward to their continuing engagement in its implementation.

UH stands firmly behind the August 24, 2017, Board of Regents’ resolution and UH’s “commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and … to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.”

Sincerely,

Randolph G. Moore
Chair, Board of Regents

David Lassner
President
This final number needs broad agreement. 9 is better than 14. But this decision needs to be agreed upon. Adding TMT site 13, the extra road and expanding beyond the current developed concentration is a very bad idea.

The UH should not be removed from overall stewardship, this would be most counter productive. The Malama Maunakea Resolution by the UH Board of Regents has made promises that must be kept. Most importantly it promised to advocate for the Hawaiian students, to give us a chance towards higher education, to support us in STEM fields. Secondly there was a promise to return land that was not being used in the Maunakea Scientific Reserve/Astronomy Precinct. This is a helpful measure to address the ongoing debate about "land" in Hawaii. Only the UH can assure us that proper care will be taken of historic properties "in situ", together with the proper agencies ancient Hawaiian sites can be cared for. The UH can work with the existing observatories to make sure stewardship remains at the highest level.

Again, not a continuation. Native Hawaiians have put together mass demonstrations throughout Hawai'i and abroad to demonstrate their opposition to the destruction of their sacred mountain.

Again, not a continuation. Native Hawaiians have put together mass demonstrations throughout Hawai'i and abroad to demonstrate their opposition to the destruction of their sacred mountain.
I really hope that this does not happen. It is important to remember that UH management not only addresses these large scale and emotionally potent balances of culture, science, recreation, education, and safety. There are also the everyday large to small scale details of logistics and complicated facility management in an extremely challenging environment. How many cars are driving up today, who is doing the laundry, is there enough food, how many rangers are on duty? Are the tourists damaging cultural resources? New management entities will lack the expertise and experience to efficiently manage this logistical support. Better to stick with the existing scheme and improve it, rather than gut it and risk failures.

#052

Posted by jmakyoku on 10/26/2021 at 7:21pm [Comment ID: 499]

Type: Correction
Agree: 0, Disagree: 0

Stop fear-mongering by implying that anything else than UH is going to be worse

#053

Posted by Brandy-Alia Serikaku on 10/25/2021 at 11:48pm [Comment ID: 398]

Type: Correction
Agree: 0, Disagree: 0

This is paila kūkae. You said you listened!? Then ‘a’ole tmt. Then take down all the observatories. Then do what you listened and show you can listen. It's pathetic and racist to see a university use ‘ōlelo Hawai‘i to promote the desecration and continued disrespect towards our Hawaiian people and land. How are you so disconnected from the reality of your mismanagement and the emptiness of your words and promises? For decades we have been saying no to the pimples on the mauna, and now you have fully stepped into your caucacity, trying to convince the people of this fake state that inSPITE of the evidence of YOUR lack of management and neglectful care of Maunakea, you deserve to manage and possess these public lands. Correction. You guys suck mau loa, your writing sux, your planning sux, your vision sux, your hearing sux, you only successful at sucking, suck this muthasuckas ‘eā lā ‘eā lā ‘eā.

#054

Posted by Alexis Cohen on 10/15/2021 at 1:25am [Comment ID: 180]

Type: Correction
Agree: 0, Disagree: 0

Thank you for opening this up to the wider community for comment. My comment is concise, clear and concrete.

There should be no more building on Mauna Kea. Period.

The Native Hawaiian people have endured decades of having what is important to them --- family, culture, home --- stripped from them.
Now is your moment to make right what was wronged. More than scientifically studying astronomy, a move to halt all construction in perpetuity will position UH as a thought leader who will be remembered and revered as participating in true social justice work.

The Native Hawaiian people are not the only ones who will benefit.

Indigenous people are our climate leaders.

We are careening toward ecological collapse. We --- the largest planetary collective we --- need their miraculously preserved wisdom to be part of moving forward toward rebalance. I am not the only one who thinks this. The United Nations wholeheartedly agrees.


This could be your legacy. Think beyond academic programming. Be bolder and better than whomever walked before you. Take your place on the world’s stage.

All eyes are watching you.
I am rooting for you.

Sincerely,
Alexis Cohen, M.A.
New York

#055

Posted by pi314 on 10/25/2021 at 5:42am [Comment ID: 277]
Agree: 0, Disagree: 0
Without the leadership of UH, there would be no astronomy on Maunakea, and all of the tremendous benefits would be lost. No other organization would have the motivation to maintain astronomy on the mountain. It makes no sense to place any other group in charge, since that will inevitably lead to the loss of capability.

#056

Posted by Cassidy Bennett on 10/25/2021 at 1:12pm [Comment ID: 300]
Type: Correction
Agree: 0, Disagree: 0
There has not been "balanced and beneficial land use" on Mauna Kea, both because it has been harmful and because it is on stolen land.

#057

Posted by Abby on 10/20/2021 at 1:55am [Comment ID: 194]
Type: Suggestion
Agree: 0, Disagree: 0
If your program is already one of the best in the world why do you fee the need to expand even further? I understand astronomy is important, just as any field of science. Man must explore and learn, but why do we have to rush it at the expense of those who have already had so much taken from them?

#058

Posted by Heluhelu on 10/26/2021 at 10:16am [Comment ID: 431]
Agree: 0, Disagree: 0
Apparently you are saying better the devil you know!! UH has proven itself to be poor stewards. There is no reason to continue with an organization that has shown itself to be untrustworthy.
E Ō I KA LEO (LISTEN TO THE VOICE)
FOREWORD

Mauna Kea, kuahiwi kū haʻo i ka mālie.

Mauna Kea, standing alone in the calm.  

This ʻōlelo noʻeau (Hawaiian proverbs and poetic sayings) recognizes and expresses the sentiment that Maunakea is a source of inspiration to many people. Steadfast always, the mauna (mountain) compels us to gaze upward in search of the unknown, thereby engendering a sense of wonderment and hope.

Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some, the mauna is sacred. Its resources serve as the source for a diverse range of spiritual, research, educational, recreational, and subsistence experiences that define the significance of the mauna. Its extraordinary blend of topographic and atmospheric qualities make Maunakea the most desirable location for ground-based astronomy in the northern hemisphere, and the exceptional combination of alpine and sub-alpine ecosystems in a tropical environment make it ecologically unique as well. If there is truth to the idea that the nature of “place” shapes who we are as a community, Maunakea certainly stands alone as a preeminent example of this.

The quest to understand their beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins. For early Hawaiians, Maunakea was the origin—the first-born island. For modern astronomy, Maunakea provides a window on the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose and challenge with this plan and thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.

The mauna stands alone, calm in the midst of all forms of storm. It reminds us that our varied interests, as diverse and sometimes divisive as they may be, are in fact woven as lei (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us all as one community.

Strengthening Connections to Place

He aliʻi ka ʻāina; he kauwā ke kanaka.

The land is a chief; man is its servant.

Foundational values that guide UH’s stewardship and inform E Ō I Ka Leo derive from key tenets of the Hawaiian worldview, which holds that cultural and natural lands are one and the same. In this worldview, ʻāina is not a commodity but rather an esteemed elder in the Hawaiian family.

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2Pukui, 1983, No. 2147
3Pukui, 1983, No. 531
#059

Posted by Rachel Kameali‘i Nazara on 10/25/2021 at 10:32pm [Comment ID: 378]

Agree: 0, Disagree: 0

Yes, one and the same for us as ʻōiwi...you are overstepping the boundaries here by universalizing our beliefs, and abusing/exploiting our connection to this place by claiming it as your own.

#060

Posted by Rachel Kameali‘i Nazara on 10/25/2021 at 10:18pm [Comment ID: 374]

Agree: 0, Disagree: 0

Desired by whom?

#061

Posted by Brittney Bonilla on 09/16/2021 at 12:06pm [Comment ID: 58]

Type: Correction

Agree: 0, Disagree: 0

Your verbiage minimizes the voice and opinions of Native Hawaiians by stating that the mauna is sacred to "some". I would consider your wording of this. To the Hawaiian people, Maunakea is sacred. That is all that need be said.

#062

Posted by dgarcia2727 on 10/26/2021 at 9:38am [Comment ID: 423]

Agree: 0, Disagree: 0

If you recognize Maunakea as a sacred site and the place of origin for Native Hawaiians, why are you extending your master lease? Give the land back to Native Hawaiians by allowing them to determine their own stewardship of Mauna Kea.

#063

Posted by Brittney Bonilla on 09/16/2021 at 12:11pm [Comment ID: 59]

Type: Correction

Agree: 0, Disagree: 0

Again, you have portrayed Native Hawaiian beliefs/spirituality and culture as archaic and ancient, while astronomy is "modern". The perspective you take on primary stakeholders (the Native Hawaiian community) places their history as unimportant in the modern day, but these beliefs on origin of Native Hawaiian people are not old. They are current, valid beliefs about the origin of their people.

#064

Posted by Pua Brown on 10/25/2021 at 12:47pm [Comment ID: 298]

Type: Correction
Please stop making my people and culture sound "prehistoric" - that is racially charged. The reference to "early Hawaiians" is a poor choice of words and exposes what you think of Native Hawaiian culture and religion as something relegated to the past. Native Hawaiians are a living people. We still exist and clearly still see Mauna Kea as our origin place. Indigenous science and knowledge is valid and is telling us to take care of the earth. Mauna Kea is our sacred place of origin - we do not need your colonial science desecrating that land through mountaintop removal, in a conservation area that is home to endemic species found nowhere else on earth, to figure it out for us.

#065

Posted by Jonathan K Osorio on 10/09/2021 at 12:59pm [Comment ID: 142]

I would say that for many the mountain is sacred and you could make this admission without really damaging your principal argument. By insisting that its "some" you make your prejudices in this obvious.

#066

Posted by Crisy Hurst on 10/19/2021 at 10:34pm [Comment ID: 190]

The title of this page implores you to do exactly what is being asked. Listen to the people- The indigenous people of Hawai‘i have an internationally recognized human right to self-determination, and over the past 12 years have clearly exercised that right and said ‘A’ole (NO) to the building of TMT on Mauna Kea, which is 100% stolen Hawaiian Land.

#067

Posted by mcpeekm on 10/06/2021 at 11:36am [Comment ID: 109]

Type: Correction

For all

#068

Posted by Rachel Kameali‘i Nazara on 10/25/2021 at 10:07pm [Comment ID: 371]

Whose voice? As an ʻōiwi I am completely against this "project." I hope those of you who are reading this are listening to my voice, and prior voices that have been opposed in the past and continue to be opposed to this project today.

#069

Posted by Veronica Ohara on 09/13/2021 at 11:54am [Comment ID: 37]
Thank you for citing Pukui.

#070

Posted by Veronica Ohara on 09/13/2021 at 11:53am [Comment ID: 36]
Agree: 0, Disagree: 0
As a Kanaka Maoli I firmly believe that astronomy and my culture can co-exist on Maunakea. Our most sacred chants, echo of the origins of the cosmos, even the most illustrious Mary K. Pukui acknowledges this in her book, "The Echo of Our Song". Astronomy, especially TMT on Maunakea will allow us to literally see back to the beginning of time, before the formation of our solar system. Though I don't consider Maunakea to be the "mother of us all", I do think the atmospheric qualities available at 13,803 feet give us a rare opportunity to better understand our place in the universe. The cosmic aspects of Hawaiian chants can be conjoined with modern mathematics and astrophysics to give the world a clearer understanding of who we are. More importantly what we will learn can help us to better understand and take care of the planet earth. Astronomers know better than anyone else how rare and irreplaceable the earth is.

#071

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:09pm [Comment ID: 372]
Agree: 0, Disagree: 0
While it may be a "source of inspiration to many," it remains a foundation for nā ʻōiwi (the indigenous people) and reminds us of our kuleana (rights/responsibility) to our lāhui (nation/race/people.) In effect, it is inappropriate for us to be asked to allow for any continued desecration of this sacred space.

#072

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:21pm [Comment ID: 375]
Agree: 0, Disagree: 0
"Place" as defined by?...

#073

Posted by Jonathan K Osorio on 10/09/2021 at 1:00pm [Comment ID: 143]
Agree: 0, Disagree: 0
Really? What does this mean to you?

#074

Posted by pahnelopi G mckenzie on 10/25/2021 at 9:29am [Comment ID: 292]
Agree: 0, Disagree: 0
I appreciate all you have said and agree with it. I find it interesting that you will quote Pukui and yet if she was alive i am sure she would speak out against the destruction that the telescopes have done to this sacred mountain. How can you claim He aliʻi ka
ʻāina; he kauwā ke kanaka and yet still promote these telescopes which is the opposite of this noʻeau

#075

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:24pm [Comment ID: 376]
Agree: 0, Disagree: 0
Why does the origin of "the Universe" matter more than the origin of our people, especially when one considers that this "place" is Hawaiian above all else?

#076

Posted by HiloResident on 10/06/2021 at 11:46am [Comment ID: 110]
Type: Correction
Agree: 0, Disagree: 0
We know from geology that this is not true. This should be acknowledged.

#077

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:28pm [Comment ID: 377]
Agree: 0, Disagree: 0
The universalism being used to justify your perspective is exploitative at best. Using the symbol of a lei to justify your aim as just another "diverse" perspective is disappointing to say the least.

#078

Posted by dgarcia2727 on 10/26/2021 at 9:40am [Comment ID: 424]
Agree: 0, Disagree: 0
If you recognize that land is not a commodity and an esteemed elder, why do you want to continue the desecration of these lands with projects like TMT and the existing telescopes?

#079

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:16pm [Comment ID: 373]
Agree: 0, Disagree: 0
The "wonderment" of the unknown by some should not supersede that which we know as nā ʻōiwi. Indigenous knowledge should matter in indigenous spaces!

#080

Posted by Heluhelu on 10/26/2021 at 10:22am [Comment ID: 434]
Type: Correction
Agree: 0, Disagree: 0
Not alone-covered in 13 existing telescopes. The focus on Mauna Kea should be preservation of sacred sites and appropriate maintenance of the 13 existing telescopes.
Astronomy is great, but is at this point another tourist viewpoint. Nothing discovered in these telescope has lead to an improvement in the lives of the Kanaka Maoli or indeed the residents of these islands. UH should be working on creating a sustainable economy not more desecration.

#081

Posted by chuckgrigsby on 09/14/2021 at 1:20pm [Comment ID: 49]
Agree: 0, Disagree: 0
And for others of us, the telescopes are what makes the mauna sacred.

#082

Posted by Lcoelho23 on 10/13/2021 at 4:32am [Comment ID: 170]
Agree: 0, Disagree: 0
Maunakea is sacred for many reasons.
- It's a Native Hawaiian Burial ground
- It's a place where Native Hawaiians go to be and communicate with the spirits of their ancestors
- It's a place that will help heal the people!
system. The Hawaiian relationship to the land is one of reciprocity: people serve the land which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawai‘i Island community, and the astronomy facility staff who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of E Ō I Ka Leo is to help all fulfill their responsibilities to the mauna and to one another.

Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our plans and practices wherever we can. For example, the *Kumulipo* (an important Hawaiian creation account) describes Maunakea as the first-born mountain son of Wākea (sky father) and Papa (earth mother), who were also progenitors of the Hawaiian race. Maunakea is symbolic of the *piko* (umbilical cord) of the island-child, Hawai‘i, and that which connects the land to the heavens (Maly, Piko Kaulana:v).

*Paupaniākea* is another name for Wākea referenced in the *Kumulipo*. The name may mean “End of the closing up of light” or “Opening up of light” (Beckwith, Hawaiian Mythology:294) which in either case accurately describes some of the unique spiritual and astronomical qualities associated with the summit area:100 as Pukui and Elbert note ‘Āpapalani refers to the “Legendary upper stratum and abode of the gods [or] chiefs of the highest rank, as ni‘aupi‘o.” (Pukui-Elbert:28). In researching these names Pualani Kanahele notes:

“‘Āpapalani is the space above the earth’s atmosphere where the oxygen is thinner. On the mountain it is where the greenery subsides and disappears, thins out like the oxygen. The space below where the daily rain clouds meet the mountain is ‘Āpapanu‘u. Therefore, we have two nomenclatures, the very top is Paupaniākea and ‘Āpapalani below”.

It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible. Achieving balance in the development and management of the resources can be accomplished only when there is a greater understanding and appreciation of the many values held by the community regarding Maunakea.

**History, Voice, and Vision**

*I ka ʻolelo no ke ola, i ka ʻolelo no ka make.*

In language there is life, in language there is death.4

Words can heal, words can destroy.

Historians write from a worldview that is shaped by their backgrounds, experience, and values. In Hawai‘i, for many years this meant that American historians often neglected and even denigrated traditional Hawaiian values and culture that has changed substantially in recent decades with

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4 Pukui, 1983, No. 1191
I am happy to see you refer to Pukui and Elbert when it comes to astronomy on Maunakea.

Pretending all these views carry equal weight is an injustice, as Hawaiʻi is a deeply racialized society with an military and economic power structure that has exploited the land and people for decades.

Sorry folks, Hawaiians do not have responsibilities to the university! However, on the other hand, the university has responsibilities to Hawaiians - primarily because they are beneficiaries of the Public Trust that Mauna Kea is part of. So - as the Hawai’i Supreme Court has interpreted - beneficiaries have benefits! Yet the university, other than paying lip service to Hawaiian culture and Hawaiians, treat Hawaiians adversely continuously. Where are the benefits for Hawaiians (when you keep on trying to create policies and rules that are adverse to them)? But please make it clear in this document - "The university does not and cannot regulate Hawaiian culture and its practices" - and thus this - and Hawaiians who are cultural practitioners are NOT subject to these rules!

As ʻōiwi we have kuleana not just to "future" generations, but to past generations as well. Our kūpuna/mā糠ua (ancestors/elders) taught us better than to think only of ourselves. When thinking of them as well as our future people, there is no way we can support the perspectives being pushed here...unless of course we are wanting to offend our people by metaphorically slapping them in the face by supporting this project.
I think that this description, especially to the continually pointing to stewardship and reciprocity still treats the mountain as an object--of usefulness, of beauty, of care. What happens when you think of Mauna Kea as a subject?

#088

Posted by Kassidy Wartz on 10/26/2021 at 1:54am [Comment ID: 399]
Type: Suggestion
Agree: 0, Disagree: 0
As stated, this place is sacred. That should be the end of this document and conversation, but sadly because our voices and presence are both not respected, it is not. It is a privilege for anyone to be upon this land that the Native Hawaiian/Indigenous Peoples to this land hold important. Before the telescopes were built, not even Native Hawaiian medicine people were allowed to be on this mountain. Why does the University feel that their business on Mauna Kea is more important than that? This document acknowledges this but needs to act accordingly and stay off the land. Stop the desecration of a sacred place!

#089

Posted by Stefanie Allen on 10/10/2021 at 2:33am [Comment ID: 149]
Type: Suggestion
Agree: 0, Disagree: 0
If the TMT is built, would it belong to NASA or the people of Hawaii?

I come from Indiana. There are manholes in the bottom of the White River. Sewage and industrial waste flow into that river. The city of Indianapolis smells like a toilet and the air is difficult to breath.

I read that one of NASA's arguments is that the TMT would "create jobs." Will these jobs pay a living wage? For all workers? Even janitors? Otherwise someone stands to profit of the labor of others.

And the TMT will have to have plumbing.

How can you build the TMT without harming the environment? You will have to dig sewage pipes and that sewage will have to go somewhere.

In history, it has happened over and over and over again.

People who have a lot of money buy land, build an operation, and tell the community "it's okay, I'm helping you!"
Then they hire the community members and pay them poorly, overwork them, take advantage of them. On top of that they pollute their air with smog and pollute their waters.
It doesn't matter if it's for "science" or "education".

People and the environment are the ones paying the ultimate price in the end.

It has happened so many times in history. Will history repeat itself?

Hawaii is a great nation. The U.S.A. has done so much harm to Hawaii. So again, it's important to consider who exactly wants and is building the TMT. And even more importantly, who stands to be harmed in the making of the TMT. You cannot lie. Their will be casualties. Unless there is a way to magically dispose of industrial waste. Unless every laborer is paid well and kept safe.

And even then there are still casualties.

The people of Hawaii have spoken and continue to tell you that Mauna Kea is sacred. And can you possibly understand what that means? And can you understand what it would mean to bulldoze the land and put in your sewage pipes. I cannot because I'm from Indiana, but I'm not trying to build a TMT on Mauna Kea. But being from Indiana, I've seen and smelt enough pollution to understand the pain and suffering that comes from unchecked industrialization. My dad works hard to keep the electricity running through half the city, and he barely gets paid enough to drive to work and back.

I've also studied history and the trauma that the U.S.A. has caused to so many.

This plan is long and wordy. And from the news it sounds like you're saying "maybe, maybe not but trust us".

How can anyone trust you if you can't even make up your mind about building the TMT?

Ultimately, I should think Mauna Kea, if it belongs to anybody, it belongs the people of Hawaii and they don't need a lengthy document to prove that.

#090

Posted by jmakyoku on 10/26/2021 at 7:24pm [Comment ID: 500]
Type: Correction
Agree: 0, Disagree: 0

Who gave UH and astronomy staff permission to demand the land provide for them?

#091

Posted by Lei Kihoi on 10/26/2021 at 8:07am [Comment ID: 411]
Agree: 0, Disagree: 0

1. The current report does not address the amount of percentage the university gets from the profits of Maunakea to run the university.
2. what is the current status of the advisory group that was just appointed by the governor with regards to making decisions in collaboration with the board of regents number

3. assuming the board of regents continues as the ultimate decision maker with regards to Maunakea, it is important to have an appointed NATIVE HAWAIIAN with voting rights. 4. Being that Maunakea ceded lands, Hawaiians should have 20% of revenues and free tuition at UH

#092

Posted by kingsam2 on 10/06/2021 at 12:55am [Comment ID: 104]
Type: Suggestion
Agree: 0, Disagree: 0
This entire paragraph seems irrelevant, inflammatory and designed to appeal to certain political point of view. There seem to be a lot of broad, sweeping conclusions being made that have nothing to do with management of Mauna Kea. Furthermore, if the point is to lead up to the context of the TMT protests, this entire paragraph would need to be re-worded to explain the lies, deceit, and bullying that have been the hallmarks of the TMT protests. To write this paragraph in this fashion ties gives the protests a legitimacy that they do not have by giving an official stamp of approval on the protesters' narrative that the TMT fight is connected to perceived injustices of the past. The opposite is true. TMT honors Hawaiian culture and history, and has frankly bent over backwards to provide reparations to Native Hawaiians.

#093

Posted by Kyla-Marie Kahulamakamaeʻokalani Turner on 10/25/2021 at 11:08pm [Comment ID: 384]
Type: Suggestion
Agree: 0, Disagree: 0
I think, just commenting culturally, the Hawaiian relationship to the land goes deeper than reciprocity. It is one of kinship, because, as stated before, the ʻāina is elder to us. It's not so much a working relation, as it is a familial one. When we take care of our family, our family takes care of us. It is more like that I believe.

#094

Posted by kingsam2 on 10/05/2021 at 11:18pm [Comment ID: 103]
Type: Correction
Agree: 0, Disagree: 0
Please provide a citation for this statement. As far as I am aware, Maunakea is not mentioned in the kumulipo.

http://www.ulukau.org/elib/cgi-bin/library?e=d-0beckwit2-000Sec%E2%80%941haw-50-20-frameset-book%E2%80%941-010escapewin&a=d&d=D0&toc=0

Maly, at pages 7-8 (PDF 32-33) describes out certain *other* chants, specifically the
birth chant of Kauikeouli, discuss the entire island chain being born from Wakea and Papa, but there is no specific emphasis on Mauna Kea apart from the rest of the island chain. The attachment of "mauna kea" to "mauna a wakea" is an interpretation, but it does not seem to be made clear in the chant. The chant is more likely referring to mountains generally.


#095

 Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:08pm [Comment ID: 385]
 Agree: 0, Disagree: 0

"...land use decisions, management actions, and educational programs" as determined by who? Considering that there must be some hierarchy of "the many values" you mention, it appears obvious to me that the values of us as ʻōiwi should matter more because we are in Hawaiʻi. I know colonials and their neo-colonial counterparts continue to label this place as America, but this is not America.

#096

 Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:10pm [Comment ID: 387]
 Agree: 0, Disagree: 0

 Are you not continuing this practice by writing this justification for your project?

#097

 Posted by Jonathan K Osorio on 10/11/2021 at 8:25am [Comment ID: 155]
 Agree: 0, Disagree: 0

 I wonder if you have Kumu Pua Kanahele's endorsement to use her descriptions for this plan

#098

 Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:09pm [Comment ID: 386]
 Agree: 0, Disagree: 0

"...land use decisions, management actions, and educational programs" as determined by who? Considering that there must be some hierarchy of "the many values" you mention, it appears obvious to me that the values of us as ʻōiwi should matter more because we are in Hawaiʻi. I know colonials and their neo-colonial counterparts continue to label this place as America, but this is not America.

#099

 Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:42pm [Comment ID: 380]
 Agree: 0, Disagree: 0

 Who is "we" you are speaking of? Whose ancestors? And whose plans/practices
exactly?

#100

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:59pm [Comment ID: 382]
Agree: 0, Disagree: 0

Are you attempting to equate our spirituality with your "astronomical" research? If so, what system of valuation are you implementing here? In my eyes the two are incomparable because the perspective by which each finds its root is different. Again, since this is Hawai‘i, shouldn't our cosmology have more value than yours considering "sense of place?"

#101

Posted by dgarcia2727 on 10/26/2021 at 9:50am [Comment ID: 425]
Type: Suggestion
Agree: 0, Disagree: 0

It is culturally insensitive to use Hawaiian cosmology and spirituality to advance your exploitative projects and so-called stewardship of Maunakea. As you mention, the summit of Maunakea is a place for gods and spiritual beings. It is not a place for non-Native Hawaiians to reside let alone operate out of.

#102

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:49pm [Comment ID: 381]
Agree: 0, Disagree: 0

It appears that you have interpreted the Kumulipo to your benefit. It is not simply that Maunakea is an "island-child." It is one of many hiapo (elder siblings) of our people, and we therefore cannot treat it as anything less. Our cultural understanding informs us of the huge debt we owe to our hiapo, therefore making it no less than an offense to objectify the mauna as you aim to by continuing to build upon it.

#103

Posted by Kathy Shimizu on 09/15/2021 at 10:27am [Comment ID: 55]
Type: Suggestion
Agree: 0, Disagree: 0

Perhaps it is the University and the forces behind the observatories that need to weave into the Hawaiian Culture. Begin with the culture first, not the other way around.
Hawaiian voices increasingly expressed and heard. As a result, historical events and political injustices experienced by the Hawaiian people are now well-documented, as are the devastating impacts those experiences have had on the well-being of Hawaiians. The broadened discussion by voices of indigenous peoples has given rise to a movement that seeks to rectify harm caused by these past injustices.

The resonance of the native Hawaiian kāhea (call) to compensate for past injustices is clearly reflected in the ongoing conflict over the development of Thirty Meter Telescope (TMT) and with what is viewed as over-development on Maunakea for astronomy in general. At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai’i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.

UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawai’i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy inclusive of disciplines founded in science and technology guided by the values of the community. A central question for Maunakea then becomes “do the values of our community allow for Maunakea to be a place where a component of this future (astronomy) is pursued beyond 2033 when conducted under a comprehensive management plan?”

How one answers that question is a function of the diverse and sometimes conflicting views one holds regarding land use, governance, and stewardship. This diversity of opinion was most recently observed in the findings of the Department of Land and Natural Resources’ evaluation of UH’s implementation of the Maunakea Comprehensive Management Plan, which stated that “…the opinions of members of the public regarding UH stewardship of Maunakea has often depended upon whether they support or oppose telescope development on the mauna.”

Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, they are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan. What E Ō I Ka Leo attempts is to incorporate the diverse values held by the community into a framework that supports discourse and decisions leading to a balance of interests and responsibilities and a unifying vision for Maunakea as a unique source of learning.

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#104

Posted by Anonymous1 on 10/26/2021 at 10:19am [Comment ID: 433]

Type: Suggestion
Agree: 0, Disagree: 0

1) There are other options to consider for moving away from dependence on tourism. Food sovereignty, for example. Social programs to help Kanaka grow food and build small businesses for essential products that keep our money in the islands rather than sending oversees.

2) We don't need to be #1 in astronomy research. This competition mindset is a toxic foundation of colonial society that needs to be dismantled. Focus on upgrading the telescopes that are there while making amends with the Native community. This compromise, the promise of harmony is far more vital to our future than any telescope.

#105

Posted by drkthomp on 10/25/2021 at 9:02pm [Comment ID: 360]

Type: Correction
Agree: 0, Disagree: 0

Wording here implies equal support and opposition, which to my understanding is clearly not true, especially in reference to the primary stakeholders here, the Native Hawaiians who consider Maunakea sacred.

#106

Posted by ku ching on 10/07/2021 at 11:18am [Comment ID: 129]

Agree: 0, Disagree: 0

How can true management and caring take place when the fox puts itself in charge of the henhouse? Who manages the fox?

#107

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:17pm [Comment ID: 389]

Agree: 0, Disagree: 0

Are you saying that the economic impact of astronomy in Hawaiʻi will equate anything near the 20% impact that tourism currently has? While yes, we as Hawaiians (as well as some locals) want less tourism here, it feels like you are conveniently using our desires against us in an attempt to persuade us to go along with your desecration (a.k.a. development) on our Maunakea.

#108

Posted by CP on 10/26/2021 at 8:31pm [Comment ID: 519]

Type: Suggestion
Agree: 0, Disagree: 0

As an educator, I personally say yes. The real education, the real example all of this
can be, however, is an example of how colonizers can appropriately empower and partner with indigenous communities to allow them to lead us into the next phase - it not just about astronomy, technology, etc. UH, Hawaii, and ultimately the Hawaiian people could become one of the first living examples of how to do this 'right'. To be this case study would become what universities and governments would seek to learn from.

#109

Posted by Pua Brown on 10/25/2021 at 2:43pm [Comment ID: 325]
Type: Correction
Agree: 0, Disagree: 0
Yes, there should be a more diversified economy. Tourism, military, the agrochemical industry, real estate, and astronomy/telescopes have all been part of the lack of diversified economy that has not changed and only gotten worse over the last 50 years! Why would more telescopes bring more diversity to our economy? Do you think more tourism and military will also diversify the economy?

#110

Posted by Pua Brown on 10/25/2021 at 1:37pm [Comment ID: 307]
Type: Correction
Agree: 0, Disagree: 0
This betrays the majority opinion of the Hawaiian people that have been screaming, "no more! Enough is enough!" 20,000 people marched in a single day to demonstrate our opposition to TMT on Mauna Kea. How many marched in support of further desecration? Stop using our home and our most sacred land for your science experiments. From experimental pesticides and herbicide resistant seeds to bombing Kaho'olawe for target practice to building these monstrosities on Mauna Kea - aole. Enough is enough. The few in power is deciding what the future of Mauna Kea should look like and ignoring the majority opinion. Don't hide behind "diversity."

#111

Posted by Anonymous1 on 10/26/2021 at 10:40am [Comment ID: 440]
Type: Suggestion
Agree: 0, Disagree: 0
E O I Ka Leo is not responsible for resolving past injustices. It is responsible to not incur further injustice. Of course, there is trans-generational trauma compounded by current injustices that are beyond the power of UH. However, its "unifying vision" should include the interests of the Native community, not only as a "source of learning" but for the cultural and spiritual reverence that Mauna Kea deserves. The vision is not unified if only UH interests are considered.

#112

Posted by Veronica Ohara on 09/13/2021 at 12:19pm [Comment ID: 40]
Agree: 0, Disagree: 0
Astronomy and the University of Hawaii cannot be expected to be responsible or answer for the injustices to the Hawaiian people. In fact, I am astounded that the Hawaiian Ethnic Studies and the law school at UHM have been allowed to mount an unending assault on the UH Astronomy and Physics Departments. My old alma mater is turning a blind eye to a clear conflict of interest; are the tax dollars to be used to destroy a UHM institution? How is it possible that Williamson B. C. Chang, Osorio, Takamine Holt, K. Beamer be allowed to use their exalted office, chair, professor position to turn young minds against astronomy? Against their own school, place of employment and their own people. It's outrageous. Freedom of speech is important but making Kanaka afraid to pursue their studies in astronomy is entirely another. For far too long these professors have abused their position and the result is Kanaka are discouraged from pursuing astronomy. This is not pono, it’s not how open minded societies function.

I’ve been dismayed to see certain books chased out of print by the Hawaiian Ethnic Studies classes. Even more troubling are the revisionist history I see repeated as a mantra, spoon fed across social media with every upside down reggae colored "Hawaiian” flag.

But I suppose it’s not much different from what is happening across the nation with education. The problem is what I am seeing generated from UHM ethnic studies is far different from what I learned under Pua Anthony when the program began in the "70s. I see a twisting of fact, a re-interpretation of our history according to Sam Kamakau, David Malo and John Papa I’i, not to mention Fornander, Pukui and more. I suppose you cannot limit what these professors teach but at least Beamer and all should be reminded that the Battle of Kuamo’o was the end of the Kapu System and after that we were free of it. I don’t think we will return to the old gods anymore than the luna system at the old plantations of Castle and Cook. The University of Hawaii and astronomy cannot be held accountable for the sufferings of the Hawaiian race. It’s not reasonable.

#113

Posted by kingsam2 on 10/06/2021 at 1:10am [Comment ID: 105]  
Agree: 0, Disagree: 0

It is odd to give these grievance and victimhood claims pride of place in the "history" section. I recommend this section start off with a description of how the construction of the telescopes was celebrated with no opposition when they were first constructed, and then eventually lead into a description of how the current objections to UH’s management have more to do with TMT than any real failures by UH in the last 20 years.

#114

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:12pm [Comment ID: 484]  
Agree: 0, Disagree: 0

While I wholeheartedly agree that Hawai’i needs to diversify its economy to become
less dependent on the tourism industry, astronomy on Mauna Kea is just another industry that exploits Hawaiian culture.

#115

Posted by HiloResident on 10/06/2021 at 11:54am [Comment ID: 113]
Type: Suggestion
Agree: 0, Disagree: 0
Perceived injustices - to be clear. If history did not happen exactly the way it did, none of us would be alive to have this particular discussion.

#116

Posted by Jonathan K Osorio on 10/09/2021 at 1:26pm [Comment ID: 145]
Agree: 0, Disagree: 0
This is not something that passively took place or somehow suggests an evolution of western consciousness. That haole hear our voice is the result of risk, passion and sacrifice. That we hear the voice of our ancestors in our aina may well be an evolution of consciousness

#117

Posted by Michael Mack on 10/09/2021 at 12:46pm [Comment ID: 138]
Type: Suggestion
Agree: 0, Disagree: 0
As a Hawaii resident I wholeheartedly support TMT and other projects like it. I believe that the best way to build a robust local economy is through science and technology. While that may be difficult in many disciplines we have been blessed tremendous advantage in astronomy, and for our sake and the sake of future generations we should take full advantage of it.

I also believe that the future of mankind as a species will eventually depend on our ability to migrate to and survive on other planets and in space. I think our ability to do that will strongly depend on investments that we make to understand the universe. The TMT will advance this understanding, and Mauna Kea is the best location for it. It will not be as effective at other locations.

I think the issue of TMT is central to the plan, so it's important to elaborate on why we should build it. It's not just because it's good for our economy. The knowledge we gain with TMT has larger implications.

Thank you!
-Mike

#118

Posted by chuckgrigsby on 09/14/2021 at 1:33pm [Comment ID: 50]
Excellent explication of the issues and of the position of UH on the terrain of all the issues.

#119

Posted by Lehuakona on 10/25/2021 at 8:20pm [Comment ID: 348]

These sections in the foreword are beautifully written, and quite eloquent. Thank you for these insights.

#120

Posted by Heluhelu on 10/26/2021 at 10:25am [Comment ID: 435]

You cannot correct the past, but you can correct what you do in the future. Your place should be to stop the continued abuse of Mauna Kea. That is in your power to do.

#121

Posted by Pua Brown on 10/25/2021 at 2:44pm [Comment ID: 326]

Type: Correction

Over development is pervasive throughout Hawai‘i - the development of our sacred sites and destruction of our cultural resources has had a huge impact on the health and well-being of the Hawaiian people. Currently, Native Hawaiians make up over half the homeless population and 10 percent of the population. Do you think that further desecration of our most sacred ‘Aina against our wishes will address this disparity and lack of opportunity in Hawai‘i? Do you think Kanaka Maoli want to be employed by an industry that doesn't recognize our rights, knowledge, religion and cultural practice as valid? Mauna Kea is sacred and should be left alone.


#122

Posted by Cassidy Bennett on 10/25/2021 at 1:48pm [Comment ID: 310]

Type: Suggestion

Native Hawai‘ian voices are what should be prioritized here. There is not equal support and opposition - the majority of residents oppose TMT. And "other community voices" - settler colonialists - should not be prioritized in this conversation.

#123

Posted by Gerald F Kalisik on 10/10/2021 at 4:27pm [Comment ID: 152]

Yes, Mauna Kea needs to be shared by all in the community.
How exactly are you addressing injustice through this project?

#125

Posted by Abby on 10/20/2021 at 2:24am [Comment ID: 195]

Type: Typo

So to sum up the first few pages: you included the cultural significance of the mountain to the Native people, and share parts of their culture like poems to say how beautiful and awesome of a place the mountain is, then you cut to “we don’t care if you disagree the only way to achieve anything is with our technology!” That is a colonizer mindset, and what you are attempting to do is further colonization. In the future when the world has recognized Indigenous voices and lifted them up to where they should be, and that day will come, the world will not look at this university as a great pioneer for science. The world will look at you as just another institution who refused to respect people’s rights, it will look at your establishment with more contempt than it already does. As a second point I would like to point out that chemical spills are not sustainable. If sustainability was a concern to this university you wouldn’t be attempting further expansion. Hawaii was sustainable before colonizers stepped on its land. You are going backwards while trying to obtain the future.

#126

Posted by HiloResident on 10/06/2021 at 11:53am [Comment ID: 112]

Type: Suggestion

The Master Plan seems to use Hawaiian and native Hawaiian interchangeably. Suggest defining these terms instead of leaving the definition open to interpretation.
Extending the Reach

ʻAʻohe pau ka ʻike i ka hālau hoʻokahi.
All knowledge is not taught in the same school.6
One can learn from many sources.

In 2016, UH collaborated with the astronomy-community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. These conversations identified the aspirations of community members regarding what Maunakea means to them and how they would like to see it stewarded. The intent was to improve UH’s understanding of why Maunakea is important to people and to use this feedback to inform UH and astronomy community’s plans for the future. The conversations were intimate and, in many instances, deeply personal, with the shared experiences documented in The Report of the Hui Ho’olohe.7

Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other. Maunakea uniformly is described as moving minds and spirit, and lives have been changed because of one’s relationship to the mauna even if for only a single experience. Second, the mauna is the teacher while each of us brings with us a set of values, a knowledge base, and tools that shape our experience of it, in the end it is the mauna that teaches us both what we came to learn and that which it decides we need to learn.

Maunakea is not just an invaluable astronomical resource, it is a unique natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ʻike Hawai‘i (traditional knowledge), climate, and so much more. E Ō I Ka Leo proposes to broaden the focus of UH’s facilities and resources at Halepōhaku to support the educational and research opportunities that Maunakea offers in fields other than astronomy. The exact nature of the educational opportunities that will be offered are still to be developed, but in concept would be supported by Halepōhaku serving as a multi-disciplinary field station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics.

Foundational future educational programming and field work would be building a solid cultural base of ʻike Hawai‘i and nohona Hawai‘i (traditional practices) underpinning all offerings and opportunities. CMS and ‘Imiloa are partnering to develop this programming in collaboration with other Hawaiian cultural resources across UH and in the community with a common goal of inspiring the intellectual and personal growth of all those who are privileged to visit, learn, and work there.

6 Pukui, 1983; #203
7 Envision Maunakea, 2018
The mauna is a mountain, just like lots of other mountains on the globe. Anthropomorphizing mountains is not helpful in the context of making public policy decisions.

Agreed, more disciplines can be developed. I would like to see a conservation program for historic sites developed for interested university students. Currently the Maunakea Rangers and other staff do an outstanding job in taking of existing sites, they are to be commended. Currently it appears anyone can leave things on Maunakea and sadly the fragile ecosystem is being hurt. The trash left up on Maunakea by the TMT protesters remains and some construction has taken on a permanent aspect. Do you remember that a few years ago Mr. P. Dedman and others constructed a pile of rocks and placed disinterred human remains near Area E of the Astronomy Precinct. To this date no charges have been brought forward even though this action went against so many facets of Hawaiian culture. Even the dead have rights. Sadly, the law is not equally applied in Hawaii.

This is sacred land to Native Hawaiians. This land does not belong to us therefore we do not have the right to use it as we please; no matter how noble we feel the reason may be. This is not your land. You cannot use it for your research.

Allowing natives to use their land for spiritual and cultural practices is not the only issue here and will not solve the problem. The problem is your construction of a new telescope is assaulting their sacred site, and they view it as such. There is no way to sustainably build tmt and respect native Hawaiians.
This is a great argument for moving the entire University of Hawaii Astronomy program (IFA) to Hilo, rather than Manoa. This would bring money and jobs to the community (many more than TMT would). It would also make a statement that Maunakea is THE center of Astronomy in Hawaii, not O'ahu. This would also expose the leaders (and students) of UH's Astronomy program to the local culture.

#132

Posted by Kathy Shimizu on 09/15/2021 at 10:42am [Comment ID: 56]

Educational opportunities should be determined and included in the final document. Who is benefit from these educational opportunities? Who selects these people? I believe our part Hawaiian kids should be groomed from younger years with some kind of alliance with the astronomers. I am a retired teacher, and our kids need the help to get connected and keep connected. People that are at an advantage in accessing educational opportunities are prevalent in the Mayan. Some handholding has to be done until we can wean our kids to function in this Western society.

#133

Posted by chuckgrigsby on 09/14/2021 at 1:49pm [Comment ID: 52]

"... not just ...". Let's get the context right. No human "traditional knowledge" correctly identified that the Milky Way is not the same thing as the universe. In fact, we have only known about the true scale of the universe for about 100 years. We only know about that scale from detailed astronomical observations conducted using a telescope. Because none of us were alive 100 years ago, we tend to take it for granted that astronomical knowledge has always "been there" just like it is now. The old ways die hard, but they must die in the face of new information. Mauna Kea is not the oldest source (per the Hawaiian tradition), it is much younger than most of the earth. When we learn new truth, we need to place old myth in its appropriate new context. We are at an amazing time in the history of humanity. Much of our current scientific knowledge has been developed in the past 140 years (I use that number because it is twice my personal age). The growth of modern scientific knowledge is a wonder (at least to me) that rivals the view of the Milky Way from the top of Mauna Kea. Having been to the top of Mauna Kea and to the tops of other fourteeners, I can state with certainty that the view, while majestic, is typical of the views from high mountains. But the highest mountain of all is the one we have created from ignorance in such a short time, and the view from that mountain is truly stupendous.

#134

Posted by Lcoelho23 on 10/13/2021 at 4:21am [Comment ID: 168]
Native Hawaiians will benefit greatly if they go back to their roots and use Maunakea lands for basic cultural and spiritual practices. They need to use these lands to help heal the people.

#135

Posted by Anonymous on 10/22/2021 at 10:17pm [Comment ID: 217]
Type: Suggestion
Agree: 0, Disagree: 0

These educational opportunities should be taught by actual Kanaka Maoli who have deeply rooted connections to the Mauna, not just those with the blood but no actual deeply rooted connections. They must show their dedication to educating the community at large and be approved by the Kanaka Maoli community.
Ancestral Ways, New Beginnings

\textit{Hahai no ka ua i ka ululā‘au.}

Rains follow the forest.\(^8\)

Knowing this, Hawaiians hewed only what was needed.

Hawaiians understand how special Maunakea is as both a source of inspiration and for the value of its unique natural resources. Guided by this perspective, this plan helps demonstrate UH’s relationship to Maunakea as a significant cultural and historical landscape where astronomy is a legally permitted use, commitments are honored, and use of its resources are balanced in order to achieve a sustainable future for the diverse values our community ascribes to this special place.

In recognition of this, E Ō I Ka Leo seeks to ‘āwili (weave) the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place. Finding balance is a never-ending, constantly evolving journey that aligns well with UH’s overall purpose. Accordingly, E Ō I Ka Leo establishes a framework for moving forward with the understanding that, as with all sail plans, the navigators must constantly be aware of, adapt, and adjust to changing winds and seas that we encounter during our journey.

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\(^8\) Pukui, 1983, #405
#136

Posted by Sydney Davis on 10/12/2021 at 6:47pm [Comment ID: 162]
Agree: 0, Disagree: 0

Just because something is legal, it does not make it right or necessary or wanted. Native Hawaiians have been advocating for decades for protection of Mauna Kea. If you are truly concerned with stewardship, you will take advice from indigenous communities all over the world and cease unnecessary building on stolen lands. The astronomy equipment already on mauna Kea is enough, it is not your mountain to control and desecrate.

#137

Posted by Chelsey Crabbe on 10/13/2021 at 3:08am [Comment ID: 167]
Type: Suggestion
Agree: 0, Disagree: 0

How are we to explore the sky with open-mindedness and curiosity if we cannot respect our fellow humans on this planet? The summit of Mauna Kea is equally an utmost sacred place to the people of Hawaii and to those exploring the sky. However, why do these two group need to diverge? The meaning of aloha aina, respecting the land like a family member in one big community ecosystem, is a principle we all must adopt and protecting Mauna Kea is a step forward in that direction.

#138

Posted by Abby on 10/20/2021 at 2:37am [Comment ID: 197]
Type: Typo
Agree: 0, Disagree: 0

Legal does not equate to ethical.
MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES

Maunakea is important to diverse communities on Hawai‘i Island, on the other islands that make up the state, and beyond. Part 1 of this plan describes the University of Hawai‘i’s (UH):

- **Mission and Purpose on Maunakea** – the reason for its presence on Maunakea.
- **Vision for Maunakea** – what it seeks to accomplish as a result of its actions on Maunakea.
- **Core Values** – the precepts that guide the way people behave as they try to implement the vision and carry out UH’s mission on Maunakea.
- **Goals and Objectives** – concise statements of what needs to be done to accomplish the mission, fulfill the vision, and promote the core values.
- **Strategies** – the overall approach that UH will use in attempting to reach the identified goals and objectives.

These are the foundations upon which UH’s Master Plan for Maunakea, *Hō‘oia A Ka Pouli* (truths revealed from the dark night), rests and which have guided the decisions that are reflected in it. Part 2 of this Master Plan, discusses the facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Part 3 of the Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

The content of this Master Plan, including UH’s mission, vision, and goals, were informed by extensive outreach and consultation with diverse parties over a period of many months, which is summarized in Appendix A. Implementation of the plan will help UH succeed in its primary mission and achieve its intended purpose in a way that is consistent with its core values.

1.1 UH’S MISSION AND PURPOSE ON MAUNAKEA

UH’s mission and purpose on Maunakea, and therefore CMS’ mission, is:

*Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom, and values while fostering mutual understanding and respect.*

As mentioned above, this mission statement captures why UH operates on Maunakea. It draws on existing mission statements of those UH programs and units that directly oversee and/or engage in actions on Maunakea and whose direction, interests, and concerns this plan supports. Appendix B provides a summary of the existing mission statements of those UH programs and units.
#139

Posted by **Casey Kekiwi** on **10/12/2021** at **7:25am** [Comment ID: 158]

*Type: Suggestion*  
*Agree: 0, Disagree: 0*

I agree! Create a truly educational experience by showing the Hawaiian Culture, Belief, and even Sciences!!

Teach about star navigation up there.

#140

Posted by **Kaʻiu Kimura** on **10/18/2021** at **12:18pm** [Comment ID: 187]

*Type: Correction*  
*Agree: 0, Disagree: 0*

I thought this name changed…

#141

Posted by **Anonymous** on **10/22/2021** at **10:26pm** [Comment ID: 218]

*Type: Suggestion*  
*Agree: 0, Disagree: 0*

Community partners should abide by the customs from the Kanaka Maoli community, especially stakeholders who most likely do not know anything about Kanaka Maoli culture or have never set foot in Hawai‘i or outside of the popular, visited areas.

#142

Posted by **Eli** on **10/13/2021** at **11:56am** [Comment ID: 178]

*Agree: 0, Disagree: 0*

For decades, Kanaka Maoli have been advocating for the protection of Mauna Kea. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT (thirty meter telescope) on Mauna Kea. Over half a million indigenous and residents of Hawai‘i, and others around the world oppose the building of the TMT. A look into history will show that it might be best to listen to the actual people of the land.

#143

Posted by **Anonymous** on **10/22/2021** at **10:31pm** [Comment ID: 219]

*Agree: 0, Disagree: 0*

Given the continuous history of colonization and disrespect and erasure of Kanaka Maoli, non-Kanaka and especially non-locals and non-residents should first respect Kanaka Maoli and their culture before demanding Kanaka Maoli respect others who are visiting.
#144

Posted by mellow023 on **10/25/2021** at **6:03pm** [Comment ID: 339]

*Agree: 0, Disagree: 0*

I strongly doubt the values of this master plan and its claims of taking care of the mountain because the Comprehensive Management Plan has not been enough in protecting the mauna in Natural or Cultural perspective. None of the 13 existing telescopes have been decommissioned when called to. Trash was never taken out, left accumulating on the Mauna. Chemical waste spills were not treated correctly. The values of this document do not align with the people, so if you truly are listening to the people, you should stop this master plan DRAFT.

#145

Posted by mellow023 on **10/25/2021** at **6:03pm** [Comment ID: 338]

*Agree: 0, Disagree: 0*

The mauna is not a place for people to go. Mauna Kea is wao akua and cities are wao kanaka. We should not be holding commercial tours or films. Mauna Kea is a temple and should be treated as such. She deserves peace and protection, which this document lacks. Moreover, asking non-Hawaiian residents to pay a fee puts a lot of kanaka maoli living on turtle island in this category. Why should kanaka maoli pay an entrance fee when coming home. Moreover, there is an overwhelming opposition to the TMT project from kanaka maoli and allies, and these are the voices that should be prioritized to prevent further damage done by settler colonialism.

Also, TMT should never be used to change the economy of Hawai'i. Yes, Hawai'i economy could benefit from sources other than tourism, but it should not be in forms of oppression like TMT. Hawai'i’s economy should build from community efforts and gifts, using those to create sustainable and in harmony with Mother Earth.

#146

Posted by William K Rosehill on **09/12/2021** at **2:36pm** [Comment ID: 31]

*Agree: 0, Disagree: 0*

I am Kahuna Kukulu Wa'a (Expert Ancient Canoe Builder). This is the lost (forgotten) term used to identify canoe builders of Old. Kahuna Kalai Wa'a has been misused in recent times and is a term taken from Kalai Ki'i, to carve Ki'i. A canoe is built, not carved.

As Kahuna Kukulu Wa'a, I favor TMT and all scientific, educational, and astronomical efforts to advance "Ike" (Knowledge) of the Hawaiian people, their culture, and the world. Ike has always been of utmost importance to the Hawaiian people.

Adzes were hewn from Mauna Kea basalt. Without utilizing Mauna Kea's pahoehoe resource, the Hawaiian culture would not have evolved. For without canoes, who would the Hawaiians be?

The adze quarries symbolize use of Mauna Kea resources to further Ike relative to canoes astronomy, and navigation. They must be preserved for future educational opportunities for Kahuna Kukulu Wa'a and students.
I have been building koa canoes since 1975 in Kona. I am a Hawaiian Forest Restoration Consultant by profession. By education, I am a Kamehameha Kapalama graduate of 1968 and earned a BS degree from UH Manoa in Tropical Agriculture. If I can be of further assistance, please contact me.

Bill Rosehill
1.2 UH’S VISION FOR MAUNAKEA

Upon adoption of this Master Plan by the BOR, UH’s vision for the lands that it manages on Maunakea will be:

Maunakea, a revered mountain, where landscape, community, and culture combine to inspire discovery, renewal, and world-class education and research.

Astronomy was the original motivation for UH’s involvement with Maunakea, and we anticipate that it will remain central to our activities on Maunakea. At the same time, the decades-long relationship has deepened and evolved to the point where today its Vision is much broader than was initially the case. At the heart of its Vision for the UH Maunakea Lands is the recognition that being allowed to carry out research on Maunakea requires one to mālama Maunakea, a place deeply rooted in culture and rich in ancestral knowledge. Accordingly, UH’s renewed Vision recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research should reinforce, rather than conflict, with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.

Managing this precious area, UH recognizes that it must protect the area’s values:

- A culturally significant landscape and a recognized historic district with many contributing historic properties; who for some it is a wahi pana (storied/legendary place) and for others it is considered wao akua (realm of the gods).
- The premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions.
- Rare subalpine and alpine ecosystems in a tropical zone where species have uniquely evolved and adapted deserving of understanding and protection against human and environmental threats.
- A destination for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences.

This Master Plan and the Comprehensive Management Plan (CMP) reflect and contribute to the achievement of the vision by creating the physical and administrative environment that supports exploration of humanity’s most basic of questions: who are we and from where do we come? The plan seeks balance among the diverse views that various members of society and culture hold regarding this question. The plan provides a framework to enable UH and the State to benefit from worldwide resources while sustainably stewarding Maunakea for the public’s benefit.

1.3 CORE VALUES ASSOCIATED WITH MAUNAKEA

The specific core values, i.e., precepts, that guide UH’s actions on the lands that it manages on Maunakea, are:

- Mālama (care for). Maunakea is a significant cultural and natural landscape. It is wahi pana and, to many, wao akua where ‘ike Hawai‘i and traditional Native Hawaiian cultural
#147

Posted by shennessey on 10/25/2021 at 11:27pm [Comment ID: 391]

Type: Suggestion

The notion that Maunakea’s value is rooted in being a tourist destination for anyone--visitors or residents alike--is inherently colonial and part of the Manifest Destiny that supported such "exploration experiences" in the 18th and 19th centuries and to this day. Maunakea’s value should be determined by the stories and histories of people indigenous to this place, the Kanaka Maoli. We know Maunakea to be important because it is the center of our cultural and spiritual worlds. To relegate it to a "destination" or even a "premier location for astronomy" is to dilute its inherent value drastically. It cannot be both.

#148

Posted by ku ching on 10/07/2021 at 11:41am [Comment ID: 130]

Agree: 0, Disagree: 0

It is a fact that there are two lichens (Pseudephebe pubescens and Umbilicaria pacifica) that are endemic (specifically) to Mauna Kea - and at least one - Pseudephebe - occurs on the proposed TMT site. While Pseudephebe was mentioned in the first TMT Contested Case Hearing (including that any construction was to avoid the location of Pseudephebe colonies) - in the second TMT Contested Case Hearing - every attempt was made to NOT mention Pseudephebe, and in fact, testimony of the university expert not only did NOT include Pseudephebe in his "list" of lichens on the parcel, but tried to NOT discuss its rarity and occurrence on the parcel, or that earlier testimony suggested building away from it. Pseudephebe should be listed as endangered. However, the strategy involved seems to be clear - to hide important facts so the TMT can be built! Which suggests that this proposed document is full of smokescreens (to enable astronomy to prosper on the mountain, despite the cries and practices of cultural practitioners)!

#149

Posted by Pua Brown on 10/25/2021 at 2:38pm [Comment ID: 324]

Type: Correction

Agree: 0, Disagree: 0

If you were actually doing this, you would not be forcing more construction without the consent and against the will of the Native Hawaiian people. I think any steward of Mauna Kea should recognize, affirm and protect the delicate ecosystems and cultural and spiritual integrity of Mauna Kea. That said, you contradict yourself by planning on supporting more telescopes and the construction of TMT.

#150

Posted by EC on 10/25/2021 at 11:36am [Comment ID: 294]
Thank you for this opportunity to comment. I am a UH alum and current staff. Beyond going through the formalities of community feedback, I would love to see UH and the state compromise more to the benefit of Native Hawaiian people and culture. The vast majority of respected Hawaiian cultural practitioners—those who have devoted their lives to studying and practicing Hawaiian values—have clearly argued for the halt of more telescope construction and the rest and restoration of the mauna. Hawai‘i needs to honor the native land and people and prioritize the good of the land and people over Western capitalist interests. For decades, including with many previous telescopes, Hawai‘i has prioritized outside interest and capitalism instead, to the detriment of much of the local and Hawaiian communities and land, and still, the state struggles with financial stability—this is not working. Even academic interests such as the pursuit of Western scientific knowledge should not come at the cost of ignoring the protests of the host culture. UH and the state must stop ultimately disregarding Hawaiian cultural community leaders—there is talk of a "balance" of interests, but there is no balance when one side’s interest is prioritized repeatedly. UH and the state are guests in Hawai‘i and must use their power to do what is just and right by our community, especially Native Hawaiians. What is just and right is being clearly set forth, in this case, by the largest group of Hawaiian leaders to have united in decades, and we need to trust their knowledge and opinion. There are other things the state can and should invest in to make money. UH and the state have benefited hugely from the telescopes for decades and should be grateful for that. It is time to give back selflessly and move on to a more sustainable pursuit that is built through true partnership with the Hawaiian community from the start. Me ke aloha, EC

#151

Posted by Abby on 10/20/2021 at 2:41am [Comment ID: 198]

Earth, we come from Earth. Humans, we are humans. That question has been answered already through basic science, mythology and legends, and both written and oral histories and traditions. To further explore that question mankind does not need another telescope.

#152

Posted by James O Juvik on 10/06/2021 at 12:02pm [Comment ID: 116]

Rapid alpine climate change (warming trends is clearly documented at 11,000 ft on adjacent Mauna Loa (NASA MLO) over the past 65 years) need to be more seriously monitored on the UH summit lease lands, and where possible mitigation measures implemented, A plan to instrument a research grade network of meteorological /environmental station was developed some years ago but never implemented,
#153

Posted by Anonymous on 10/22/2021 at 10:50pm [Comment ID: 224]

Agree: 0, Disagree: 0

Not only the public's benefit, but first and foremost, above all else, is for the benefit of Kanaka Maoli, their ancestors and descendants, and their culture.

#154

Posted by dgarcia2727 on 10/26/2021 at 11:10am [Comment ID: 451]

Type: Correction

Agree: 0, Disagree: 0

There is no sustainable stewardship without those who have ancestral connections to the land that's being stewarded. In this case it would be Native Hawaiians not UH or the State of Hawaii who have only caused harm to Mauna Kea.

#155

Posted by Anonymous on 10/22/2021 at 10:43pm [Comment ID: 221]

Agree: 0, Disagree: 0

For one to malama Mauna Kea, ALL must malama, which means every single person even remotely involved in this plan and intending to visit this sacred place must abide by the customs from Kanaka Maoli the way they honor the mauna, especially those not from home or who have no connection to the land whatsoever.

#156

Posted by Joy Yoshina on 10/26/2021 at 12:23pm [Comment ID: 473]

Type: Correction

Agree: 0, Disagree: 0

What is UH’s definition of wao akua and wahi pani? We should avoid all religious bias - if anything, only use wahi pani (legendary place). Too much emphasis on Hawaiian culture, religion, beliefs.

#157

Posted by Lisa Akana on 10/25/2021 at 11:07pm [Comment ID: 383]

Type: Suggestion

Agree: 0, Disagree: 0

I an recall during the Perseid meteor shower Hawaii 2019 watching from the visitors center area, countless numbers of headlights of huge tour 4 wheel drive tour buses and vans driving to the summit area, they kept coming for hours. We felt sad and worried for the Mauna and the road. It did not seem to be a careful or respectful way to protect Mauna Kea. Science is important, Mauna Kea is sacred an it can be exploited and physically worn down. That was just one night on the Mauna and it did not bode well for the future of UHH stewardship of Mauna Kea.
#158

Posted by Anonymous on 10/22/2021 at 10:45pm [Comment ID: 222]
Agree: 0, Disagree: 0

Everyone must not only be sensitive to the topic, but practice cultural humility and make the effort to learn more and follow the rules and customs of Kanaka Maoli culture and not just know or be aware of their practices.

#159

Posted by Anonymous on 10/22/2021 at 10:49pm [Comment ID: 223]
Agree: 0, Disagree: 0

Part of the answer to this question in relation to Mauna Kea, as was briefly mentioned earlier in this plan, is in the Kumulipo. As well as where did we come from in terms of astronomy? Look towards the ancestors of Kanaka Maoli and how they have learned astronomy the natural way before machines and other materials were invented. By understanding, learning, and incorporating that, you can partially answer that question.

#160

Posted by Diana Garcia on 10/26/2021 at 11:07am [Comment ID: 450]
Type: Correction
Agree: 0, Disagree: 0

There is no sustainable stewardship if it is not led by those who are deeply connected to the land. In this case, it would be Native Hawaiians not UH or the State of Hawaii who have only caused harm to Maunakea in the past.

#161

Posted by Nicole on 10/12/2021 at 8:52am [Comment ID: 159]
Type: Suggestion
Agree: 0, Disagree: 0

If you are sensitive to the unique importance of Mauna Kea to the Hawaiian people, you wouldn’t build a gigantic building on a place so sacred. And yet you won’t stop. Native Hawaiians have been constantly an afterthought, a people that have gotten in the way of development. And yet you forget that this is our land!!! Imagine demolishing the Notre Dame church in Paris. A place so sacred and full of history. That is like the mauna to us. ‘A’OLE TMT!!!

#162

Posted by Anonymous on 10/22/2021 at 10:40pm [Comment ID: 220]
Agree: 0, Disagree: 0

Given that Mauna Kea is such a prime site for education as well as a strongly connected place for Kanaka Maoli, astronomy should be taught the way Kanaka Maoli and their ancestors have learned to chart the stars: with their eyes and natural environment, not with huge machines or light pollution. The best tools are the ones
readily made available to you and the ones there already.

#163

Posted by Heluhelu on 10/26/2021 at 10:27am [Comment ID: 436]
Agree: 0, Disagree: 0
As long as TMT is included in your plans you are not respecting the people of Hawai‘i.
practices were born and are exercised. It is where species have evolved to adapt to the unusual conditions existent on the mauna and where geography and climate come together to create unmatched astronomical viewing conditions. It is also where residents and visitors come to recreate. UH respects cultural practice and honors its privilege, commitment, and responsibility to support access to and use of resources that is balanced across the many values ascribed to Maunakea.

- **Kuleana** (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.

- **ʻIke Hawai‘i; Nohona Hawai‘i** (traditional knowledge; traditional practices). Our stewardship and educational programming will integrate traditional knowledge and practice to strengthen our care for Maunakea’s resources and people’s understanding and connection to place.

- **Mau loa** (a long view). UH will responsibly steward the physical, scientific, and biological resources present on Maunakea so that their vital ecosystem functions continue for future generations.

- **Laulima** (cooperation). As a public resource, UH is committed to broaden participation of Native Hawaiians and the community in its planning and programs for Maunakea. We encourage all people to come together in shared responsibility to collaboratively protect and learn from this special place.

- **Kūpono** (trustworthy). Stewardship of the mauna and ensuring that Maunakea’s unique astronomical resources remain available for the continued advancement of science, education, and astronomy requires organizational and economic stability. UH will seek to maintain a level of trust and decision-making certainty that allows the continuation of responsible stewardship in partnership with the public, stakeholders, and the astronomy community.

These core values were developed with consideration for the values of other UH programs and units that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH activities on Maunakea. These include the values expressed in various UH system, UH Hilo, and ʻImiloa plan documents (Appendix B).

### 1.4 GOALS AND OBJECTIVES

The goals and objectives described below are concise statements of what needs to be achieved to fulfill the vision expressed in Section 1.2, accomplish the mission and purpose expressed in Section 1.1, and promote the core values in Section 1.3.

#### 1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS

Referred to as the “Stewardship Goal,” UH is committed to steward Maunakea by working with all Maunakea stakeholders to further a collective understanding of, respect for, and protection of
#164

Posted by Abby on 10/20/2021 at 2:45am [Comment ID: 199]

Agree: 0, Disagree: 0

Your values do not align with your actions.

#165

Posted by ku ching on 10/07/2021 at 11:49am [Comment ID: 131]

Agree: 0, Disagree: 0

The rights of cultural practitioners in Trust far outweigh the university’s obligations by contract (that is further restricted by a termination date)!

By the way - if the university is so righteous, Why is the university NOT IN COMPLIANCE with Section 2.2.4 of the Decommissioning Subplan of the Mauna Kea Comprehensive Management Plan (as it pertains to the TMT Sublease and bonding or surety requirements)? You can email me your response to this question! In fact, the question necessitates a public response!

#166

Posted by Veronica Ohara on 09/13/2021 at 12:52pm [Comment ID: 42]

Agree: 0, Disagree: 0

My understanding is the astronomy community is committed to taking care of the mountain, and the future generations of Hawaii. The Maunakea Scholars Program is an excellent example of the long view, cooperation and indicates the trust we can place in them. No other group of observatories have worked so hard to make viewing time, and help from the best astronomers in the world available to high school students. Even more, students from high schools all across our islands. Also since the pandemic began the local astronomy and space community have printed face shields, sewed face masks, participated in school supply drives, and helped hospitals on the Big Island. The astronomy community participates on every level when it comes to families in need in Hawaii.

#167

Posted by Anonymous on 10/22/2021 at 11:01pm [Comment ID: 228]

Agree: 0, Disagree: 0

What do you mean by "broaden participation"? Please be specific and describe how much participation will be made by Kanak Maoli specifically. Will they have a seat and voice at the table and will they actually be heard and respected or will they be token figureheads for visibility and not serve as actual consultants for the management and protection of the mauna? They should be the first people to turn to for resources in the management and care of the mauna over anyone else.
UH speaks on the core values and goals surrounding the construction of the TMT on Mauna Kea, and yet there is undeniable irony around this, as the construction itself lacks true values and stewardship of land. If UH truly believes this is sacred Native Hawaiian land, AS HAS BEEN BULLETED IN THIS DRAFT, there would be no building of a monstrous telescope to begin with (in addition to 12 previously existing ones, that have not been decommissioned). You speak of privilege and responsibility right here in the opening pages of this master plan, and yet those who are heading this project are not being responsible towards the land and its native people, nor are they acknowledging the real privilege here. Privilege to take and take and take from native and indigenous people, pretend to care, and then go ahead and keep taking. Privilege to use the language of native communities against the very wishes of these same NATIVE communities. Privilege to use the language of native communities against the very wishes of these same NATIVE communities. Privilege to extend these open comment sessions, knowing they will be hugely, if not entirely, overlooked in the end if it doesn't agree with their original plan. Privilege to continue the oppressive patterns of colonization for the "betterment" of those who are already sitting in the seats of privilege. I strongly advise the University of Hawai'i to reconsider this project as it is the utmost form of disrespect to our native and indigenous communities.

I don’t support use of “recreate” in the vision. The mauna summit area needs to be approached with reverence and awe. Snowboarding, filling the truck bed with snow, running and sliding around, throwing rocks, and goofing off have no place above Halepohaku. Hiking with care and absorbing the views are fine. Huge crowds of tourists stomping around is not.

And what is this "traditional knowledge" you mention here that I have only seen for the first time this far into the document? You've superficially touched upon the ongoing debate over this sacred place, but not how Mauna Kea was traditionally used by Kanaka Maoli for astronomy.
first time this far into the document? You've superficially touched upon the ongoing debate over this sacred place, but not how Mauna Kea was traditionally used by Kanaka Maoli for astronomy.

#172

Posted by **pi314** on **10/25/2021** at **5:53am** [Comment ID: 279]

Another neglected goal and objective is to continue to support the low-land use, high-paying support infrastructure for astronomy and related work. Millions of dollars of external non-academic funding each year support various businesses that were developed to provide support to the astronomical research community. Without the local astronomical research and expertise, this funding would disappear, along with the hundreds of jobs on Hawaii, Maui, Kauai, and Oahu.

#173

Posted by **MalamaHawaii** on **10/04/2021** at **9:43am** [Comment ID: 85]

These are worthy goals but UH and the state need to remain focused on the scientific purpose and the boost to the state. If listening to the Native Hawaiian voices continues to mean no progress ever without endless debate, if it continues to mean that a loud minority overrules science, reason and the majority of the community wishes, this will be a futile plan, never to be implemented. Listening to Native Hawaiian voices has become synonymous with never taking action, in trying to mediate age-old grievances which have nothing to do with Mauna Kea. These delays have already affected the state’s reputation with scientists, affected the economy and given a few loud speakers even more confidence that they can stop progress. Hawaii needs to move forward, not endlessly stall. Yes UH needs to be a better steward. Yes, protecting the natural resource that is Mauna Kea is important and yes, allowing bona fide, legitimate cultural practices to take place is important. But let’s not continue to fall into the trap that every move forward is impeded by a few individuals and the latest “cultural practice” that they invent.

#174

Posted by **CP** on **10/26/2021** at **8:41pm** [Comment ID: 520]

Type: Suggestion

Along the lines of earlier comments- even if UH continues being the primary steward appointed by the State for this next round - the Kuleana should be that is moving away from being that sole 'leader' - moving into a transition phase of sorts, taking their responsibility as one of being in the role of transitioning leadership management away from colonizer systems and back into indigenous leadership. Words, intention and really visioning into the future critical.

#175
Is there any evidence to support this claim?

#176

Are any of the stakeholders of Kanaka Maoli descent with an actual deeply rooted connection to the mauna? Those who should have a say and control over this are Kanaka Maoli themselves.

#177

None of the Kanaka Maoli and kiaʻi that are fighting for the mauna have been considered in this. When overseeing and conducting actions on the mauna, who knows the mauna better than Kanaka Maoli themselves, who have been here for longer than any of us currently alive.

#178

First and foremost, above all else, it is the right of Kanaka Maoli to access this sacred site before any others as they have deeply rooted connections to this land and the mauna before any of us currently alive were born. Putting their needs and concerns first is the only right way of approaching this.
Maunakea’s cultural landscape and diverse natural and astronomical resources. UH recognizes that Maunakea is a distinctive and revered mountain and acknowledges Native Hawaiians unique responsibilities to the care of the mountain through their religious and cultural practices. Accordingly, in carrying out the astronomical research that is the single most important reason for its position on the mountain, UH:

1. Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;
2. Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems;
3. Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and
4. Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.

Objectives under this Stewardship Goal include:

- Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable.
- Protect, maintain, and restore the cultural landscape and natural resources by implementing the CMP management actions.
- Affirm and protect Maunakea as a wahi pana and wao akua.
- Provide educational and other programs to ensure public activities are conducted in a manner that respects Native Hawaiian practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.
- Build relationships between the mauna, its special caretakers, and the broader community.
- Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.

UH commits itself to doing its utmost to ensure that present and future generations can reach their own understanding of the connections and complexities of Maunakea’s cultural landscape, historic sites, and natural resources. Accordingly, it will strive to protect these rich resources. UH will not work alone in pursuing these commitments. Instead, it will continue to develop community partnerships that support hō’ihi (respect) by all who visit, work, and engage in cultural practices on Maunakea. It will also continue to enhance an understanding of and respect for the beliefs and practices of kanaka maoli (Native Hawaiian), whose relationship with the mauna is historic and is significant to their health and welfare. Increasing the engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in stewardship is a primary means for broadly sharing the many lessons Maunakea has to offer our community, and UH will proactively seek the funding and other support needed to do that.
#179

Posted by Anonymous1 on 10/26/2021 at 11:05am [Comment ID: 449]
Type: Suggestion
Agree: 0, Disagree: 0
Add: Submit construction plans to Native Hawaiian community for approval upon majority vote.

#180

Posted by Abby on 10/20/2021 at 2:48am [Comment ID: 200]
Agree: 0, Disagree: 0
If your entire organization left that land there would be no actual loss. Take that in for a moment. The land would continue to grow and flourish as it should. If you have to minimize harm you are still doing harm.

#181

Posted by Uilani Naipo on 10/26/2021 at 6:38pm [Comment ID: 492]
Type: Suggestion
Agree: 0, Disagree: 0
I prefer to see this list 1-4, that #2 be listed 1st.

#182

Posted by HiloResident on 10/06/2021 at 12:02pm [Comment ID: 115]
Type: Suggestion
Agree: 0, Disagree: 0
We are not a faith-based state and I don't believe anyone should be forced to respect anyone else’s beliefs or religion. This should be rephrased to embrace the tolerance of people’s individual beliefs.

#183

Posted by shennessey on 10/25/2021 at 11:24pm [Comment ID: 390]
Type: Suggestion
Agree: 0, Disagree: 0
"Affirming and protecting Maunakea as a wahi pana and wao akua" requires ceasing all development and plans for development on the mountain. Wahi pana cannot remain sacred with colonial and unlimited development, not to mention the literal realm of the gods, which should not have people in them at all. It is not possible to maintain both the goal of 1.4.1 Responsibly steward Maunakea for present and future generations and 1.4.2 Maintain the university’s status as leaders in astronomy--because responsibly stewarding Maunakea does not involve development.

#184
Outreach and decentralizing education efforts will both limit the need for expansion of facilities at the Mauna and reach a larger pool of locals and tourists at places and times where they may be more receptive to learning. Spending substantial funds to build buildings and parking lots in a sensitive place is not the only way to increase visitor education efforts.

#185

This should be the primary goal.

#186

again, list this in the recommended order: 3rd bullet item, 2nd, 4th, 1st, 5th, 6th

#187

As a Hawaii resident and more importantly a native of this ʻāina, I do not consent to building the Thirty Meter Telescope on Maunakea.

#188

Building the Thirty Meter Telescope seems to contradict the Stewardship Goal.

#189

The goals should also include responsible economic use - the observatories provide higher paying jobs for local people with significantly less overall environmental impact. If one measures environmental impact per dollar, a hotel resort is far worse than any site on Maunakea. The total impact on the land is much less, and such employment is not subject to the vagaries of the world economy, as we have seen with the COVID-19 pandemic. Over $100 million dollars per year in the near future is not a small amount of...
help to the struggling Hawaii Island economy.

#190

Posted by CP on 10/26/2021 at 8:49pm [Comment ID: 523]
Type: Suggestion
Agree: 0, Disagree: 0
The details of these statements are where conflict comes up. This needs to be very clear on what this actually looks like. Developed with the thoughts of those who currently critique UH integrated.

#191

Posted by Ren Star on 10/26/2021 at 10:48am [Comment ID: 446]
Type: Suggestion
Agree: 0, Disagree: 0
If this involves building on the land, it is not respecting the land, the people, or the planet. Use technology to find a way to utilize existing facilities and optimize those in a way to improve research, instead of building on sacred or otherwise untouched land simply for the sake of research/education. Being the best university means achieving without causing harm, even when some deem "it is well-suited". It is not well-suited if it violates in any way the planet or the Hawaiian people. We need to learn how to meet our needs without harming the planet or communities.

#192

Posted by Anonymous on 10/22/2021 at 11:12pm [Comment ID: 231]
Agree: 0, Disagree: 0
One of the many non-astronomy educational activities must include the accurate education of Kanaka Maoli history and culture taught by actual Kanaka Maoli with deeply rooted connections to the 'aina. If one of the goals that have been advertised and used to persuade support for this plan is to open more jobs for residents, then this would be the perfect opportunity to employ actual Kanaka Maoli with deeply rooted connections who will properly care for the land and share the true history of the land and culture.
1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY

Referred to as the “Astronomy Goal,” UH endeavors to maintain its’ and the Maunakea Observatories’ (MKOs) status as world leaders in astronomy. Maunakea is an extraordinary site for ground-based astronomical observations, arguably the single best site on Earth. This was what first brought UH to Maunakea and allows UH to support stewardship and other educational/research efforts there. If the Astronomy Goal is not realized, the other goals will suffer proportionally.

The astronomers who conduct research with the existing Maunakea astronomy facilities, in partnership with UH, are world-leading sources of scientific knowledge about the Universe, and UH seeks to ensure the continuation of astronomy on Maunakea for years to come so that its students, faculty members, and associated scientists have the greatest opportunity to participate in research that is critical to fully understanding humanity’s place in the cosmos. UH’s efforts will enable Maunakea to continue to be a place where researchers from diverse cultures and institutions collaborate and expand the boundaries of discovery. UH is confident this goal can be achieved while reducing the impact from astronomy facilities, including reducing the number of facilities in the MKSR, so long as the area is administered in a way that allows existing facilities to be modified to accommodate changing technologies or the sites are recycled for use by more advanced astronomy facilities from time to time.

Objectives under the Astronomy Goal include:

- Facilitate UH’s attraction and retention of leaders in the field of astronomy by providing continued access to their own and their partners’ facilities on Maunakea.
- Maintain UH’s leadership position in astronomy on Maunakea through its cooperative agreements with the MKOs and its own facilities.
- Facilitate an appropriate mix of observational and support facilities that are collectively able to help answer important scientific questions.
- Maintain the physical and administrative environment necessary to continue cutting-edge astronomy on Maunakea.
- Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research.
- Guide the location, character, size, mass, color, and other physical attributes of astronomical facilities in ways that minimize potential adverse effects on the environment while optimizing their productivity.
- In partnership with the MKOs, foster community relationships that strengthen engagement and contribute to building a shared vision for astronomy on Maunakea.

This goal and associated objectives recognize that Maunakea’s astronomical viewing conditions are a resource worthy of preservation and utilization and that observations made using Maunakea astronomy facilities consistently generate widely recognized discoveries that are beneficial to all humankind. UH will continue supporting the vision of a knowledge-based economy sought by the
One could argue that if the Astronomy Goal IS realized, the other goals WILL suffer proportionately, particularly the goals of protecting Mauna Kea as wahi pana and wao Akua. If this reasoning is to justify defying the Kanaka majority and building TMT, UH will have divided, not unified, Hawaii residents. UH should not have the power to decide what is best for Mauna Kea. Let every project be voted on, giving Kanaka Maoli the right to reject any project for any reason. This is justice.

Add: Seek approval from Kanaka Maoli for all construction projects on Mauna Kea.

This is the best and one of the most sacred sites on earth but yet you plan on plundering it for ‘progress and education’. How can you want to destroy this place on earth and forever change the course of history for some money and so you can view the skys when people cant even be safe in their communities and folks have no access to education or homes. Stewardship that focus on destruction is shameful and selfish

Native Hawaiians do not consent to more telescope s being built on this land and the current telescopes are already causing catastrophic damage to the land

In favor of this section. The knowledge gained from Maunakea's astronomical
resources belong to all of humanity, present and future. We are all one people on a
place called Earth. With all due respect to our political boundaries, Hawaiian community
values, and indigenous rights, the mauna existed long before people claimed it as their
territory. Taking the long view- mau loa, there may be global problems facing humanity
which require
the knowledge from these astronomical resources required for all peoples' survival.

#198

Posted by Sylvia Dahlby on 09/19/2021 at 3:12pm [Comment ID: 62]
Agree: 0, Disagree: 0
I support the UH's goal of maintaining the Astronomy District and Hawai's leadership in
global astronomy. I also applaud UH's commitment to reduce the number of telescopes
to no more than nine currently operating astronomy facilities on Maunakea by
December 31, 2033.

#199

Posted by Lehuakona on 10/25/2021 at 8:31pm [Comment ID: 349]
Type: Suggestion
Agree: 0, Disagree: 0
Please clarify what the specific impacts are from the facilities, particularly now that they
have been constructed. It seems best to make use of them into the future, given the
challenges and investments of their births on the mountain.

#200

Posted by dgarcia2727 on 10/26/2021 at 11:27am [Comment ID: 457]
Agree: 0, Disagree: 0
To what extent will UH go to achieve its astronomy goal? There needs to be more
transparency around this.

#201

Posted by randivalm on 10/24/2021 at 9:50am [Comment ID: 259]
Type: Suggestion
Agree: 0, Disagree: 0
Subject to being attuned to and balancing the other goals and objectives, this goal is of
paramount importance to us. Access to these facilities and the associated scientific
discoveries are among the key factors that influenced my husband's and my decision to
relocate to the Big Island in 2018, and we have since been deeply distressed by the
activist-type activities that have occurred in an attempt to quash astronomy and
innovation under the guise of honoring the Native Hawaiian culture and community.
While the Native Hawaiian culture and community are of keen importance, honoring
that culture and community and advancing astronomy in this one-of-a-kind location are
not mutually exclusive objectives. Mauna Kea existed well before there was a Native
Hawaiian community, and that community, along with the balance of residents here,
should recognize the unique opportunities to advance astronomy for the benefit of the world and to be identified as a world leader in this critical scientific field. Along those lines, we strongly believe based on our interactions within the community on the Big Island that the majority of residents - both Native Hawaiian and non-Native Hawaiian alike - very much support the University of Hawaii and Maunakea Observatories, and that those who have vehemently opposed these facilities are the loud vocal minority, some of whom don't even reside here and others who presumably have no other work or family obligations such that they can spend days, weeks, and even months protesting and adversely impacting the experiences of, and respect for science held by, the balance of residents on the Big Island. We remain hopeful that once we retire from our full-time work, we can become more involved in furthering the observatories’ goals and objectives.

#202

Posted by CP on 10/26/2021 at 8:54pm [Comment ID: 525]
Type: Suggestion
Agree: 0, Disagree: 0

Mauna Kea and Environmental protection first. Technology can develop to those standards being first priority.

Per earlier comment- what if Mauna Kea became the first astronomical site with indigenous approval? A new rating system? That whatever trade offs might be made in securing the ‘current trending leading technology’ would be gained in the progressive social, cultural, environmental focus?

#203

Posted by Ren Star on 10/26/2021 at 10:52am [Comment ID: 448]
Type: Suggestion
Agree: 0, Disagree: 0

Please stop considering building here. This is still unacceptable even with "considerations". The entire point is to leave the island alone and evolve our existing facilities and knowledge to work without needing to build at all.

#204

Posted by Anonymous on 10/22/2021 at 11:23pm [Comment ID: 233]
Agree: 0, Disagree: 0

UH can maintain their leadership position by not needing machines or buildings at all. Incorporate the practice that ancient Kanaka Maoli have used to study the stars without the need for machines. Use the natural machines of human brains to study them. We don’t need bigger machines just to show the world that UH is at the top of the astronomy field. Kanaka Maoli have been ahead of their time by only needing their brains and eyes at their disposal and not needing to rely on machines.

#205
Because Mauna Kea is planned site for this, first and foremost this place is connected to Kanaka Maoli culture. Before the collaboration from people of different cultures and backgrounds, a solid understanding and education, as well as a working practice of cultural humility and learning, of the host site and culture is the first thing that should be done before this sort of collaboration.
1.4.3 DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES

Referred to as the “Education Goal,” UH will diversify its educational pursuits and expand research opportunities on Maunakea beyond astronomy for UH, for partner institutions and groups, and for the broader community. In addition to being an exceptional site for astronomy, Maunakea’s landscape, resources, and infrastructure provide opportunities for researchers in a myriad of physical and social sciences, including indigenous knowledge. UH will actively encourage and invite researchers and students to use it, facilitating Halepōhaku in support of their research and teaching so that they may learn from the natural, cultural, and social environment within and surrounding the UH Maunakea Lands.

Specific objectives under the Education Goal are to:

• Maintain the physical and administrative environment necessary to grow research and learning in diverse fields on Maunakea.

• Foster collaborations between leaders and researchers from diverse fields, cultures, institutions, and the community to enrich and extend the knowledge gained from work on Maunakea though multi-disciplinary research and cross-cultural discourse.

• Facilitate the foregoing by repurposing the Halepōhaku facilities as a Multi-Disciplinary Field Station to support a broader range of education and research.

The Education Goal and associated objectives recognize that the UH System is the state’s primary higher education provider, and that creating greater opportunities for educational and research programs on Maunakea can benefit and unite the System’s three universities, seven community colleges, and community-based learning centers across the state. Further, these Maunakea-specific objectives support UH’s overall efforts to expand its support of the science- and knowledge-based economy that is sought by Hawai’i’s elected leaders.

While UH will continue its strong support for and involvement in astronomy on Maunakea, it will simultaneously strengthen its support of research and educational programs in indigenous, natural, and social sciences. UH also recognizes that kanaka maoli’s timeless knowledge regarding Maunakea, reflected in their observations shared in moʻolelo (narrative story) and mele (song or chant), are no less significant than other knowledge and these will be acknowledged, protected, and expanded within UH’s management and curriculum. UH will incorporate Maunakea into its programming across departments within UH Hilo and across schools in the UH System.

9 In 1964 the Hawai‘i State Legislature passed Senate Concurrent Resolution 16 (SCR 16) stating that the “State of Hawai‘i and its citizenry are most desirous and willing to co-operate and aid in the promotion of our nation’s space program and research to the benefit of the County of Hawai‘i, the state and the nation.”

The Hawai‘i 2050 Sustainability Plan (2021) and Hawai‘i Statewide Comprehensive Economic Development Strategy (2016), which draw on HRS § 226-10, 226-103, and 226-108, emphasize that it is the State’s policy to promote economic diversification and innovation to retain a workforce educated in science, technology, engineering, and mathematics (STEM).
This educational goal does not require to be part of this master plan in my opinion. This appears to be a scope creep as a way to hold space (ie, Hale Pohaku).

Funding for and accessibility to these programs and subjects should be expected increase substantially, then, through this statement, as well as the visibility and inclusion and consultation of Kanaka Maoli in these subjects.

I spent many decades from the early 1970s taking /uhh and /uhm students to the upper slopes of Mauna kea for environmental/cultural field trips including climatological research, feral ungulate impact, alien species removal efforts and assessing human impact. Before the development of extensive infrastructure we stayed in the "stone cabin", originally built by territorial forester Bill Bryan and the CCC in the late 1930s as a "public park facility" Once UHM Astronomy took over we were denied access to any overnight "non Astronomy" access to Halepohaku. Over several decades (1980-2010) I made repeated attempts (demands?) to have some under-used facilities there designated as a "field station" for educational use by UHH. To no avail! I am happy to learn you are now willing to repurpose these facilities at this late date (even if largely because Astronomers now mostly work remotely).

If the National Science Foundation becomes involved, will they abide by the master plan? You speak of oversight, but is there an authority that consistently monitors adherence to the plan? These details are left wanting.
Posted by Anonymous on 10/05/2021 at 10:26pm [Comment ID: 102]
Type: Correction
Agree: 0, Disagree: 0
Take out the extra "is" here.

#211

Posted by Veronica Ohara on 09/13/2021 at 1:04pm [Comment ID: 43]
Agree: 0, Disagree: 0
I am pleased to see UH will continue support for astronomy and Hawaiian culture. Recently observatories have been busy with Hawaiian language programs, we see them on social media. Just to be clear young Hawaiian astronomers have been working hard to make these available to everyone.

#212

Posted by Sylvia Dahlby on 09/19/2021 at 3:15pm [Comment ID: 63]
Agree: 0, Disagree: 0
I support UH Hilo Educational Telescope at Halepohaku and outreach efforts.

#213

Posted by Anonymous on 10/22/2021 at 11:25pm [Comment ID: 235]
Agree: 0, Disagree: 0
The natural environment includes no development or buildings because that directly conflicts with the natural environment.

#214

Posted by Charlie Johnston on 09/27/2021 at 12:46pm [Comment ID: 81]
Type: Suggestion
Agree: 0, Disagree: 0
Science always seems aloof, we all reap the reward of science, but except for an elite few, most of us never have the chance to really experience science. Observatories are so few, and so many scientists book time that for the average person, there is NO chance to ever see the stars through an observatory. We have a historic opportunity to meld Science with people. Here on the Big Island the fight over the observatories has caused a rift, partly because we the people don't see any benefit from science. Sure money can be spent to buy "goodwill" but bribes only work so much.

Why not take one of the observatories that is to be decommissioned, and instead dedicate it to the people of Hawaii? it is our island that will feel the effects of the observatories, that will see them daily, why can we not also have the experience of the observatories? If one observatory was reserved for the use of Hawaiian residents only, our children can experience science, can become fascinated with it. instead of there
being big white buildings that we can not touch, we the people of Hawaii can become part of experience, instead of just looking in through the locked gate.

#215

Posted by *dgarcia2727* on **10/26/2021** at **11:32am** [Comment ID: 458]

*Type: Suggestion*

*Agree: 0, Disagree: 0*

During my time as a student at UCSB, the most enriching experiences were when my morals weren't in direct conflict with my education. You shouldn’t put your students and faculty in this difficult position where they have to decide between their education and a violation of Indigenous people’s rights.

#216

Posted by *Anonymous* on **10/22/2021** at **11:38pm** [Comment ID: 239]

*Agree: 0, Disagree: 0*

This statement recognizes and is aware that Kanaka Maoli’s knowledge and deeply rooted connection is timeless and viewed as something valuable to be expanded in this management and curriculum. Therefore, including Kanaka Maoli at the table as indigenous and cultural consultants for the mauna and listening to and following their recommendations should be upheld.

#217

Posted by *Anonymous* on **10/22/2021** at **11:24pm** [Comment ID: 234]

*Agree: 0, Disagree: 0*

As well as sought by Kanaka Maoli, first and foremost.

#218

Posted by *Anonymous* on **10/22/2021** at **11:27pm** [Comment ID: 236]

*Agree: 0, Disagree: 0*

The first objective under this goal should be to ensure the teachings of the true history of the host culture where this project will take place, which is Kanaka Maoli culture towards non-natives, non-locals, and non-residents. And this teaching should be conducted by actual Kanaka Maoli with deeply rooted connections to the 'aina and culture.

#219

Posted by *Anonymous* on **10/22/2021** at **11:33pm** [Comment ID: 237]

*Agree: 0, Disagree: 0*

This directly conflicts with what’s stated in the "Extending the Reach" section very early in this document: "the mauna is the teacher". The associated objectives must keep that in mind and rephrase this with that as the central focus. UH may be the vehicle for education, but they are not the teacher. The mauna is the teacher and we must learn
from her first before we can dare say that we will spread her teachings to others.
1.4.4 SEEK BALANCE AND MUTUALLY BENEFICIAL RELATIONSHIPS AMONG MAUNAKEA’S STAKEHOLDERS

Referred to as the “Balance Goal,” the goal is to seek balance and mutually beneficial relationships among those learning from, practicing on, and visiting Maunakea. UH firmly believes that astronomy, education, cultural practices, science-based environmental management, research, and responsibly-conducted public activities can coexist. There will inevitably be a need for trade-offs, but UH believes these can be made in ways that lead to mutual respect and advance sustainable stewardship.

Specific objectives under the Balance Goal are as follows:

- Maintain a physical and administrative environment that considers, provides for, and invites all manner of exploration, discovery, learning, cultural practices, and science on the mountain.
- In partnership with the Native Hawaiian community, determine the feasibility of, and develop plans for, establishing a hālau for ceremony and education on the mauna.
- Offer opportunities for compatible cultural, educational, scientific, and recreational activities and programs that are consistent with human health and safety, promote proper stewardship, and preserve resources.
- Seek opportunities for mutually respectful and beneficial collaboration among cultural practitioners, educators, and scientists.
- Involve community members and organizations in planning, policy development, and evaluation of UH’s stewardship of Maunakea.

The Balance Goal and associated objectives acknowledge that a wide range of purposes and practices are possible and that the cultural, educational, and scientific value of Maunakea extends far beyond astronomy. UH will continue to provide for and integrate cultural practitioners, scientists, educators, and the public through its collaborative, cooperative, and community-based stewardship program.

1.5 STRATEGIES

To achieve the goals and objectives set forth above, UH will pursue the following strategies with respect to its Maunakea Lands:

1. Involve the community in the decision-making process early and often through the CMS volunteer advisory groups (e.g., Mauna Kea Management Board (MKMB), Kahu Kū Mauna Council (KKM), and Environment Committee (EC)) and other outreach activities.
2. Seek diverse community representation on the CMS volunteer advisory groups.
3. Strive to address shortcomings to build stakeholder confidence and trust so that UH may be provided the opportunity to continue and improve its management, stewardship, and research beyond 2033.
4. Allow the establishment of only those new facilities that (i) support the mission, vision, goals, and objectives of this Master Plan; (ii) are consistent with the CMP; (iii) would...
#220

Posted by shennessey on 10/25/2021 at 11:29pm [Comment ID: 392]
Type: Suggestion  
Agree: 0, Disagree: 0  
How is silencing the comment section and not allowing oral (virtual) testimonies during a "public forum" (on October 6) "involving the community"?

#221

Posted by Hope Fa-Kaji on 10/25/2021 at 2:18pm [Comment ID: 321]
Type: Suggestion  
Agree: 0, Disagree: 0  
It is insufficient to have advisory groups when it is unclear what kind of power those groups have. It would be far more in line with the stated values of this mission to give a rotating seat on the board of directors to an elected member of the community council or some other vote making role. Otherwise, the position remains very paternalistic about "listening" instead of taking real input. Additionally, volunteer groups do not account for the time and work people have to put in to participating. If community groups aren't to be given clearly defined power, they should instead be compensated for their consultancy.

#222

Posted by Uilani Naipo on 10/26/2021 at 7:41pm [Comment ID: 507]
Type: Suggestion  
Agree: 0, Disagree: 0  
There has to be a stronger commitment rather than just "involve" ... how much are you willing to demonstrate to this - are you willing to say that at the next election, the Hawaii county voters/votes can be 51 percent of the decision-making on the top (3) items (to be defined), ... for example TMT, ...

#223

Posted by CP on 10/26/2021 at 8:57pm [Comment ID: 526]
Type: Suggestion  
Agree: 0, Disagree: 0  
This should be a part of the multidisciplinary use and education goals. Not a separate lower priority after thought.

#224

Posted by Anonymous1 on 10/26/2021 at 11:52am [Comment ID: 468]
Type: Suggestion  
Agree: 0, Disagree: 0  
ADD: Involve leaders of opposition to collaborate in the decision making process.
#225

Posted by Kali Linder on 10/25/2021 at 7:11am [Comment ID: 284]

Type: Correction
Agree: 0, Disagree: 0

UH should not "offer opportunities" for cultural practice. Native Hawaiians should be able to access Mauna Kea for cultural practices as needed when needed and rather should be offering UH "opportunities" to do research. UH needs to change perspective and approach. UH has long been abusing their power on the Mauna (and elsewhere) quite contrary to it's mission & vision. Enough already; it's time for a change.

#226

Posted by HiloResident on 10/06/2021 at 12:07pm [Comment ID: 117]

Type: Suggestion
Agree: 0, Disagree: 0

Be careful that this doesn't become an effort to support a particular religion using public lands and funds.

#227

Posted by Anonymous on 10/22/2021 at 11:40pm [Comment ID: 240]

Agree: 0, Disagree: 0

How will there be mutual respect and trade-offs if other parties hold more power over the others? That cannot be a balance if these stakeholders have more pull than Kanaka Maoli who have roots in these lands before anyone else who are currently alive.

#228

Posted by Anonymous on 10/22/2021 at 11:49pm [Comment ID: 243]

Agree: 0, Disagree: 0

There should be a board consisting of entirely Kanaka Maoli leaders and stewards with strong deeply rooted connections to the land and the mauna that should oversee the stewardship of Mauna Kea and should make decisions as to how to care for the land.

#229

Posted by Uilani Naipo on 10/26/2021 at 7:30pm [Comment ID: 503]

Type: Suggestion
Agree: 0, Disagree: 0

I think these objectives should be threaded into how the other goals are considered/measured/achieved/merited and NOT be made as separate goal to maintain balance.
Is there a plan to incorporate educational institutions into the studies being done? I.e. OHA, Kamehameha Schools, Ali Like, The Hawaiian Studies Dept. of UH...
I find it hard to believe that the Keiki of Hawaii lack the intellectual capacity to become premier researchers instead of nonnatives. Look at your demographics; perhaps you need to cast a wider net to find them.

#231

I support establishing a UH Hilo-led “Multi-disciplinary Field Station” at Halepōhaku to support field studies and learning experiences across disciplines. I agree that it’s important to provide mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.

#232

What does this mean by "compatible"? What if certain aspects are not "compatible" with the vision UH has for Mauna Kea? Will they simply be ignored to go forward with this plan because they do not align with the vision? We cannot pick and choose "compatibility" and "consistency" for this. All aspects must be accepted and compatible. The plan itself must align with what Mauna Kea stands for as a sacred place for Kanaka Maoli.

#233

How will UH involve the community in the decision-making? Will emails be sent out? Bulletins, announcements through the TV news, push notifications? How will UH ensure that all communities in Hawai‘i receive these notifications and invitations for making decisions regarding the mauna? If UH is committing themselves to involving the community, UH should ensure that all communities have equal access to these notifications and invitations to make decisions. For example, if there is a meeting going to be held regarding a decision to be made for the mauna, will the meeting only be in-person, will it be a hybrid, will it only be held in the afternoons or during weekdays? How will UH ensure that people from the community will be able to access and attend in any decision-making process? Keep in mind the privileges certain people and communities have over others, especially in Hawai‘i.

#234
In 3. Delete "to address shortcomings" too broad and undefined term

#235

Posted by Pua Brown on 10/25/2021 at 2:06pm [Comment ID: 315]
Type: Correction
Agree: 0, Disagree: 0
You have had over 50 years of an opportunity to build trust and listen to the community. You have categorically failed to be a good steward of Mauna Kea. You have failed and do not deserve another opportunity. There is zero trust felt by Kanaka Maoli about the UH's management of Mauna Kea and your intentions when it comes to protecting Native Hawaiian rights or our interests.

#236

Posted by Anonymous on 10/22/2021 at 11:47pm [Comment ID: 242]
Agree: 0, Disagree: 0
Who exactly are these "community members and organizations"? They should be Kanaka Maoli first and foremost because they are the ones who know the mauna the most and know the proper way to care for her. They are the original stewards of the mauna, and they should be treated as consultants for the stewardship of the mauna.
greatly benefit from Maunakea’s unique cultural landscape or unique natural resources; (iv) are consistent with applicable rules regulations, and permits; and (v) avoid, minimize, or mitigate adverse effects on existing facilities and practices.

5. Continue to sustainably steward Maunakea through the implementation of the CMP and this Master Plan. This shall include habitat restoration efforts.

6. Manage access to the UH Maunakea Lands in a phased and adaptive manner that (i) protects and conserves the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manages activities to minimize potential adverse effects on the landscape and resources; (iii) protects public health and safety; and (iv) preserves the feeling of wilderness and sanctity in the summit region.

7. Work with the Native Hawaiian community to identify measures, policies, and facilities that will further reduce adverse effects to the cultural landscape and cultural practices and perpetuate 'ike Hawai‘i (traditional knowledge) and nohona Hawai‘i (traditional practices).

8. Decommission a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine by December 31, 2033, and do not exceed that number throughout the remainder of the time covered by this Master Plan.

9. Execute agreements between UH and the entities that operate Maunakea astronomy facilities so that the parties to these agreements collectively provide the financial support and other resources needed to (i) provide public benefits for the community and state, with a focus on the Native Hawaiian community; (ii) implement the CMP and this Master Plan; (iii) provide education regarding Maunakea’s cultural landscape and natural resources; (iv) support the UH astronomy programs; and (v) maintain necessary infrastructure.

10. Facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three existing astronomy facilities in the MKSR over the 20-year period of this Master Plan.

Strategy 10 recognizes that there is some uncertainty regarding the Thirty Meter Telescope (TMT) project, which is permitted for Astronomy Site 13. Mauna Kea Access Road was blocked from July 16 through December 26, 2019, and construction of the TMT project was paused indefinitely. The U.S. National Science Foundation (NSF) is now considering funding that project; funding may trigger federal review of the project prior to construction restarting. Should the TMT project not proceed on Maunakea, this Master Plan will continue to guide UH decisions on Maunakea including the future of Astronomy Site 13.

11. Actively pursue ideas and interest within and beyond the UH System for (i) the establishment of educational pursuits and curriculum that would utilize Maunakea as a learning laboratory; and (ii) ways the facilities, interactions occurring, and resources on Maunakea can be leveraged to provide for and support those diverse educational opportunities.

12. Repurpose substantial portions of Halepōhaku as a Multidisciplinary Field Station that supports diverse environmental and cultural educational activities.
#237

Posted by Uilani Naipo on 10/26/2021 at 7:49pm [Comment ID: 510]
Type: Suggestion
Agree: 0, Disagree: 0
I don't believe anyone UH or otherwise should be exploring opportunities to further increase footprint or access to the mauna till you know how to take care of it.

#238

Posted by HiloResident on 10/06/2021 at 12:12pm [Comment ID: 118]
Type: Suggestion
Agree: 0, Disagree: 0
There should not be an arbitrary number of telescopes located in the science reserve. If the telescopes can justify their benefit to the community, they should be allowed to operate.

Also make sure that the planned UH Hilo educational telescope is not included in the count for MKSR facilities.

#239

Posted by CP on 10/26/2021 at 9:08pm [Comment ID: 528]
Type: Suggestion
Agree: 0, Disagree: 0
This is a major component of what UH managing this into the future will need to focus on. Make this prominent and detailed, not vague. Flexible to change (master plans cover a lot of time many things evolve in that time), but very clear as to what fair compensation is.

#240

Posted by Nasreen Broomand on 10/26/2021 at 4:20am [Comment ID: 400]
Type: Suggestion
Agree: 0, Disagree: 0
No TMT on Mauna Kea ever! Desecrating sacred land is not worth it.

#241

Posted by Pua Brown on 10/25/2021 at 2:32pm [Comment ID: 323]
Type: Correction
Agree: 0, Disagree: 0
If you are trying to listen to our voices, and clearly also attempting to appropriate 'olelo Hawai‘i judging by the title of this draft, why can't you hear the voice of the Native Hawaiian people who have been shouting at you, "NO MEANS NO!"? No, you DO NOT have our consent to build more telescopes on Mauna Kea. Have we not been chanting
loud enough when we led ceremony on Mauna Kea 3 times a day for over 8 months, in
the freezing rain and hail? We have led countless demonstrations, marches, UH
student-led sit-ins, and an 8 month occupation of Mauna Kea to TELL YOU A'OLE
TMT. No thirty-meter telescope on Mauna Kea. Enough is enough. No means no.
There will be no new construction on Mauna Kea and the UH’s lease is up in 2033.

#242

Posted by Kali Linder on 10/25/2021 at 7:13am [Comment ID: 285]
Type: Suggestion
Agree: 0, Disagree: 0
TMT will not be built on the Mauna nor should any new construction of telescopes.
Decommission those already on the Mauna that are outdated/no longer in use. And/or
update if possible.

#243

Posted by Anonymous1 on 10/26/2021 at 11:56am [Comment ID: 470]
Agree: 0, Disagree: 0
A'ole TMT

#244

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:04pm [Comment ID: 482]
Type: Suggestion
Agree: 0, Disagree: 0
Kanaka Maoli have a right to self determination and have made explicitly clear their
dissent to the TMT being built on Mauna Kea. I am Native Hawaiian and I oppose the
TMT project.

#245

Posted by Lehuakona on 10/25/2021 at 8:48pm [Comment ID: 354]
Agree: 0, Disagree: 0
This proposal adds value and greater purpose to an already built facility and gives it life
into the future, benefitting all the communities. Such a research station is greatly
needed to improve local educational opportunities.

#246

Posted by Melinda Sonoda-Pale on 10/04/2021 at 6:25pm [Comment ID: 95]
Type: Correction
Agree: 0, Disagree: 0
Obviously you weren’t listening when thousands of Hawai’i residents and native
peoples said NO to TMT.
Posted by **Pua Brown** on **10/25/2021** at **2:07pm** [Comment ID: 316]
Type: Suggestion
Agree: 0, Disagree: 0
Stopping bombing our 'Aina!

#248

Posted by **Anonymous** on **09/16/2021** at **2:47pm** [Comment ID: 61]
Type: Suggestion
Agree: 0, Disagree: 0
"UH Maunakea Lands" can't exist in the paradigm of the first 2 pages of bs you've written. Give up your lands and eliminate your Maunakea facilities.

#249

Posted by **CP** on **10/26/2021** at **9:02pm** [Comment ID: 527]
Type: Suggestion
Agree: 0, Disagree: 0
What is actually meant by decommission? Re-purpose is understood. Decommission meaning full decommission and environmental restoration?

The number 9 - is this a number that all leading Hawaiian community organizations and kapuna have bought in on? I like it better than 14 but the Hawaiians need to feel mostly good about this.

And additionally, the number is great but locations and size are most important. Proximity to cultural sites, expanding development area these are the important details.

#250

Posted by **drkthomp** on **10/25/2021** at **8:57pm** [Comment ID: 357]
Type: Suggestion
Agree: 0, Disagree: 0
The insistence of developing the TMT despite disapproval from the very voices your earlier fluff text claimed to support shows a gross gap between your words and your actions, and a lack of care for the true sacredness of the site.

#251

Posted by **AKC** on **10/25/2021** at **4:31pm** [Comment ID: 337]
Type: Suggestion
Agree: 0, Disagree: 0
More than half a million people from the Kanaka Maoli community and their allies have contested the development of the TMT or any further astronomical facilities atop Mauna Kea. Their testimonies at hearings, petitions, marches, and occupation of the summit express a fundamental opposition to large scale construction projects. If you have any
intention of "listening to the voice", as you claim, the absolute least you could do is revise article 10 by changing the word "facilitate" to "terminate" and halting the construction of astronomical facilities altogether.

#252

Posted by sam nelson on 10/24/2021 at 4:05pm [Comment ID: 261]
Type: Suggestion
Agree: 0, Disagree: 0
I would support more telescopes on the mountain. Mauna Kea is a perfect place for astronomy, and I would support expanding the number of telescopes.

#253

Posted by CP on 10/26/2021 at 9:10pm [Comment ID: 529]
Type: Suggestion
Agree: 0, Disagree: 0
When I look at the map I see site 13 as an extension of the currently developed area-requiring more road, more development. And it is so controversial. Why the need to develop a new area? Especially with so much opposition. Let it go. Do better.

#254

Posted by Lehuakona on 10/25/2021 at 8:42pm [Comment ID: 352]
Type: Suggestion
Agree: 0, Disagree: 0
I strongly disagree with this goal. It is a result of politics, misinformation, and a failure to understand the differences among the telescopes in their capacities and scientific observations. What mother, having given painful birth to her children, could choose among their diversity which one should be eliminated? This goal serves neither science or cultural concerns. Removal of the telescopes will cause more environmental and thus cultural harm than leaving them in place. It was a meaningless, ignorant, and unsatisfactory concession to opponents, and should be re-examined.

#255

Posted by pi314 on 10/25/2021 at 5:55am [Comment ID: 280]
Agree: 0, Disagree: 0
I strongly disagree that the number of astronomical sites should be limited to 9. It was a big mistake to remove any telescopes. They should be upgraded over time. The overall benefit of astronomy to the State is overwhelmingly positive, and artificially limiting the number of telescopes makes no sense.

#256

Posted by Lehuakona on 10/25/2021 at 8:44pm [Comment ID: 353]
Agree: 0, Disagree: 0
This is an important goal. Mauna Kea will not fully achieve it's potential in astronomy without upgrades to technology.

#257

Posted by Lcoelho23 on 10/13/2021 at 4:24am [Comment ID: 169]
Type: Suggestion
Agree: 0, Disagree: 0
Find another spot for TMT. The ancient Hawaiian Gods won't let it work.

#258

Posted by pahnelopi G mckenzie on 10/25/2021 at 11:46am [Comment ID: 295]
Agree: 0, Disagree: 0
No construction should start. Deconstruction of the old telescopes but god willing no new construction will ever happen

#259

Posted by CP on 10/26/2021 at 9:12pm [Comment ID: 530]
Type: Suggestion
Agree: 0, Disagree: 0
Yes! But please dont focus all education at the site - or even worse and education center at the site. Bring Mauna Kea and astronomy into the community. Into schools. classrooms, tourist areas. Create partnerships that are flexible and adaptable.

#260

Posted by Cassidy Bennett on 10/25/2021 at 1:39pm [Comment ID: 308]
Type: Correction
Agree: 0, Disagree: 0
Despite widespread resistance and disapproval from the Hawaiian community - which you acknowledge above - there is still a plan to develop TMT here.

#261

Posted by Samuel Gillie on 10/26/2021 at 1:48pm [Comment ID: 477]
Type: Suggestion
Agree: 0, Disagree: 0
Delete "Native Hawaiian" all communities should be included.

#262

Posted by sam nelson on 10/24/2021 at 4:07pm [Comment ID: 262]
Type: Suggestion
Agree: 0, Disagree: 0
If the TMT is not built, I would suggest not decommissioning some of the other
Your refusal to take the TMT plans off the table completely signifies your disregard for the vast opposition to the plans.

I do not suggest moving ahead with the development of TMT on Astronomy Site 13 due to concerns and widespread opposition from the Native Hawaiian community. As of a 2019 Civil Beat Poll the majority of Hawai‘i residents now oppose TMT on Mauna Kea, if the goal of this plan is to “Listen to the Voice” I would expect to see empirical evidence that a majority of voices now support TMT if its development is to continue.

This access management must include the right for Kanaka Maoli to practice their religious and spiritual customs first and foremost.
13. Transition from temporary and ad hoc visitor facilities and uses (e.g., portable restrooms and undesignated parking) in the MKSR to appropriately sized, dedicated facilities for these purposes.

14. Develop flexible, minimal-impact night sky viewing capabilities at Halepōhaku that support UH Hilo education programs and community outreach.

15. Facilitate the conversion of all wastewater facilities in the MKSR to zero-discharge.
#266

Posted by CP on 10/26/2021 at 9:14pm [Comment ID: 531]
Type: Suggestion
Agree: 0, Disagree: 0
Progressive sustainable design in all of this. Sometimes progressive simple. Not fancy.

#267

Posted by Lehuakona on 10/25/2021 at 8:52pm [Comment ID: 356]
Agree: 0, Disagree: 0
A star gazing program is a rare attraction, valuable for cultural and scientific education and employment, for tourism, and to demonstrate why Mauna Kea is such a unique and excellent site for observations.

#268

Posted by Lehuakona on 10/25/2021 at 8:50pm [Comment ID: 355]
Type: Suggestion
Agree: 0, Disagree: 0
This is an important goal, particularly for safety reasons, but also to add to visitor enjoyment, increase employment and education opportunities culturally, environmentally and astronomically.

#269

Posted by Pua Brown on 10/25/2021 at 2:09pm [Comment ID: 317]
Type: Correction
Agree: 0, Disagree: 0
This should have already happened. Are you joking? What is currently happening to wastewater in the MKSR? Where is it being discharged?
2 BACKGROUND AND CONTEXT

2.1 PURPOSE OF THIS MASTER PLAN

The purpose of this Master Plan is to guide UH’s consideration and prioritization of proposed land uses within the UH Maunakea Lands in a manner that is consistent with UH’s mission and purpose, promotes its vision for the lands that it manages, and contributes to the achievement of UH’s goals and objectives. Specifically, this Master Plan is intended to guide:

1. The planning, siting, and design of new facilities and improvements;¹⁰
2. Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
3. Decisions that UH may be involved in regarding which existing astronomy sites will remain operational.

It consolidates and clarifies UH’s use and development policies for the subject lands and is intended to guide UH’s decision-making related to them over a 20-year period.¹¹

As stressed throughout this document, this Master Plan is intended to work in concert with, not to replace or override the CMP. The CMP will remain the guiding document with respect to management of the cultural landscape and natural resources on Maunakea while this Master Plan speaks to the specific nature of the land uses that UH anticipates will be discontinued, continued, or established. The provisions of this plan:

- Are consistent with commitments UH has made regarding facility siting, decommissioning, and other matters, and comply with the provisions of existing permits, leases, and subleases that the DLNR and UH have granted.
- Provide clear guidelines for those proposing new or modified uses and facilities within the UH Maunakea Lands.
- Support UH’s efforts to protect and conserve natural and cultural resources and processes, which are a function of its implementation of the CMP.
- Promote public health, safety, and welfare.
- Are consistent with applicable components of the CMP.

¹⁰ Proposed uses within UH Maunakea Lands that disturb the land, such as installing, recycling, modifying, or decommissioning facilities, structures, infrastructure (e.g., roads and utilities), and other improvements fall under the definition of “land use” under Hawai‘i Administrative Rules (HAR) § 13-5-2, Conservation District.

¹¹ UH presently holds a General Lease from BLNR under which it grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world class facilities and research coordination. The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the MKSR, whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.
You aren't listening to the Native Hawaiian people if you are already planning on building new facilities. Kanaka Maoli have an internationally recognized right to self-determination. According to the United Nations Declaration on the Rights of Indigenous Peoples, you need free prior and informed consent to develop our lands. More constructions will continue to cause irreparable harm to OUR Mauna. This is our sacred temple. Do we not matter? Our religion and culture doesn't matter? These lands are to be held in trust by the state for the betterment of the conditions of Native Hawaiians. This is pretty egregious that after everything that happened in 2019, after stopping the bombing of Kaho'olawe, after the illegal overthrow of our Queen, forced assimilation through your schools that physically punished our people from speaking our own language, now you are destroying our most sacred land. UH has not kept any of the original conditions for this lease. Why should you continue past 2033? Your lease is coming up and if you listen to the Native Hawaiian people, there will be no new construction on Mauna Kea, you will leave Mauna Kea and decommission all telescopes that are on Mauna Kea.
UH will evaluate all new proposals for facilities and uses for their consistency with this Master Plan. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering but has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. Any future programs or projects are also subject to additional applicable government approval(s) and environmental review(s).

Proposed facilities and developments within UH Maunakea Lands must meet the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable,
  - Employ world-class technology, research techniques, and design.
- Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.
- Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated.

2.2 LAND AREA OVER WHICH THIS MASTER PLAN APPLIES

This Master Plan covers “Mauna Kea lands,” which are subsequently referred to as “UH Maunakea Lands.” As defined under Hawai‘i Revised Statutes (HRS) § 304A-1901, the term “UH Maunakea Lands” means:

…the lands that the University of Hawaii is leasing from the board of land and natural resources, including the Mauna Kea Science Reserve, Hale Pohaku, the connecting roadway corridor between Hale Pohaku and the Mauna Kea Science Reserve, and any other lands on Mauna Kea that the University of Hawaii leases or over which the University of Hawaii acquires control or jurisdiction.

The UH Maunakea Lands presently consist of two parcels that UH leases and the portion of a third parcel over which UH holds an easement (Figure 2-1):
#271

Posted by pahnelopi G mckenzie on 10/25/2021 at 11:50am [Comment ID: 296]

Agree: 0, Disagree: 0

How does leasing land give right to build and destroy?

#272

Posted by Anonymous on 10/23/2021 at 12:08am [Comment ID: 248]

Type: Correction

Agree: 0, Disagree: 0

Hawai‘i with an 'okina. If 'okinas and kahakōs can be added to other words to ensure they are spelled correctly, Hawai‘i surely can be spelled correctly as well.

#273

Posted by Anonymous1 on 10/26/2021 at 12:09pm [Comment ID: 472]

Type: Suggestion

Agree: 0, Disagree: 0

ADD: Approval of Native Hawaiian community through vote of majority.

Let the leaders of opposition to any project organize their democratic process.

#274

Posted by Anonymous on 10/23/2021 at 12:05am [Comment ID: 246]

Agree: 0, Disagree: 0

Rephrase this to not cause ANY harm to Mauna Kea. UH will be scrutinized closely for management and stewardship of the mauna. Just because an action does not significantly harm the land right away does not mean it still doesn't harm it in any way, and the damage may not be seen immediately, but it can grow over time.

#275

Posted by Anonymous on 10/23/2021 at 12:06am [Comment ID: 247]

Agree: 0, Disagree: 0

Similar to the last comment regarding "not significantly harm Maunakea". Even if you may not see the damage does not mean it will not happen.
• Parcel TMK 4-4-015:009 via General Lease S-4191, which expires December 31, 2033. This parcel is 11,287.854-acre and is called the Mauna Kea Science Reserve (MKSR).

• Parcel TMK 4-4-015:012 via General Lease S-5529, which expires in 2041. This 19.261-acre parcel is known as Halepōhaku.

• Portion of parcel TMK 4-4-015:012 under a non-exclusive roadway easement. This easement, which encompasses 70.798 acres, contains the roadway between the two leased parcels.

Over the life of this Master Plan the specific area that falls within UH Maunakea Lands may change. This Master Plan is only binding on those UH Maunakea Lands that remain under the authority of UH. For example, if UH Maunakea Lands were reduced, this Master Plan would govern only those lands still authorized for use by UH, without the need to amend this Master Plan.

2.3 MASTER PLAN IMPLEMENTATION

This Master Plan will be implemented through the governance structure approved by the BOR, which may be modified over the anticipated 20-year life of this Master Plan. The BOR delegated responsibility for the governance and management of UH Maunakea Lands to UH Hilo, which is advised by the Mauna Kea Management Board (MKMB) and Kahu Kū Mauna Council (KKM).12 UH Hilo has, in turn, created the Center for Maunakea Stewardship (CMS) to administer the lands. This governance structure is established through policies adopted by the BOR and is outside the scope of this Master Plan.

UH’s general lease for the Mauna Kea Science Reserve expires in 2033, UH is seeking a new land authorization, but there is no guarantee it will be renewed. If UH does not obtain a land authorization that allows for its continued management and use of the UH Maunakea Lands, whatever entity assumes control may adopt a different plan with different priorities and goals. However, unless and until such a change occurs, the provisions of this Master Plan will guide land use decisions on Maunakea.

12 Under the 2000 Master Plan, MKMB was "encouraged to establish special committees on culture, environment and education, as needed, to assist it in its functioning." A long active, and currently active, special committee is the Environment Committee, which provides expertise to MKMB on environmental issues.
#276

Posted by Veronica Ohara on 09/13/2021 at 1:18pm [Comment ID: 44]

Agree: 0, Disagree: 0

I support this "Master Plan" and hope the UH's general lease for the Mauna Kea Science Reserve will be renewed, granted, allowed to continue. I am especially pleased to see a greater commitment to the Hawaiian culture and the education of the students. The UH will play a better role in management of the land and work more closely with the observatories, who must understandably follow the constraints of their universities and countries. I am very appreciative of their outreach. I know it's hard and uncomfortable for many people but their efforts are not unnoticed. Please find a way to ensure astronomy in Hawaii will continue for many years to come.

#277

Posted by Anonymous on 10/23/2021 at 12:09am [Comment ID: 249]

Agree: 0, Disagree: 0

The management should be governed and overseen by Kanaka Maoli as the original stewards of the land.

#278

Posted by James O Juvik on 10/06/2021 at 11:51am [Comment ID: 111]

Type: Suggestion
Agree: 0, Disagree: 0

The management plan should seek to remove alien plants/animals from the road corridor (70 acre) between Halepohoku and the summit region lease area, and further restore roadside native plant communities in the distinctive ecological zones (altitudinal) between 9,500-13,000ft. This should be undertaken in concert with adjacent land management by the DLNR and include alien ungulate, feral cat, mongoose and rodent removal, as well as alien invertebrate control. Since this roadside area is where almost all summit visitors (students, cultural practitioners, local recreational users and tourists), can experience the vertical ecozones on the mounain - such efforts can provide a valuable educational experience, in contrast to the last two centuries of widespread human disturbance on the mountain.

#279

Posted by Anonymous on 10/23/2021 at 12:13am [Comment ID: 250]

Agree: 0, Disagree: 0

Exactly what is said very early in this document is the exact same statement and sentiment as those who say, "If Hawai'i was not annexed by the U.S., another country would have." Through this sentence in the document, UH is stating that they are the best entity to control and manage Mauna Kea. Since this is the case, UH must ensure and adopt the best practices to managing and protecting the mauna, which includes full participation and consultation from Kanaka Maoli.
Figure 2-1: UH Maunakea Lands

Source: Planning Solutions, Inc. (PSI)
2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS

The only active plans relevant to UH decision-making regarding its Maunakea Lands are: (i) this Master Plan, which is approved and adopted by UH; and (ii) the CMP, which is approved and adopted by the BLNR and the BOR. This Master Plan supersedes all previous Master Plans.

This Master Plan does not replace the CMP, which may be amended from time to time. On the contrary, it and the CMP are consistent with and complement one another and are intended to be implemented together. All the uses and facilities that are envisioned in this Master Plan can be designed and implemented so that they are fully consistent with the management actions described in the CMP.

This Master Plan addresses the planning, siting, and design of new facilities and significant material changes to existing facilities. The CMP addresses management of activities and resources. Examples of the differences between the elements addressed in the two plans are shown in Table 2-1. Specific information concerning recreational, commercial, and astronomy activities are presented in subsections 2.4.1 through 2.4.3.

<table>
<thead>
<tr>
<th>Table 2-1: Examples of Distinction between Master Plan and CMP Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master Plan</strong></td>
</tr>
<tr>
<td>New uses/facilities within the UH Maunakea Lands</td>
</tr>
<tr>
<td>Exterior modification of astronomy facilities</td>
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<tr>
<td>Recycling of astronomy sites</td>
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<tr>
<td>Roadway improvement/modification</td>
</tr>
<tr>
<td>Facility design standards</td>
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<td>Project review process</td>
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2.4.1 RECREATIONAL ACTIVITIES IN THE PLANS

Management of recreational activities is addressed in the CMP and in Hawai‘i Administrative Rules (HAR) Chapter 20-26, *Public and Commercial Activities on Mauna Kea Lands* (the UH Maunakea Rules or HAR Chapter 20-26). This includes activities such as hunting, hiking, and snow play. If UH or another party seeks to develop new facilities that support recreational activities, such as a new trail or parking lot, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.

2.4.2 COMMERCIAL ACTIVITIES IN THE PLANS

Management of commercial activities is addressed in the CMP and HAR Chapter 20-26. This includes visits to the UH Management Area by permitted tour companies and film production activities. These activities utilize existing facilities (e.g., roads and parking areas) and do not generally result in the development of new facilities or related land uses. If UH or another party seek to develop new facilities that support commercial activities, such as parking spots for star gazing, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.
#280

Posted by pahnelopi G mckenzie on 10/25/2021 at 11:51am [Comment ID: 297]

Agree: 0, Disagree: 0

what does this mean to be amended from time to time? and who had the right to be involved in this time to time amendments?

#281

Posted by Anonymous on 10/23/2021 at 12:21am [Comment ID: 252]

Agree: 0, Disagree: 0

Will UH create policies regarding how these companies and productions will use the land? If UH is committing themselves to being stewards of the land, then they must also hold these companies accountable to abide by these rules or else they should not be permitted to use or even visit these lands at all.

#282

Posted by Anonymous on 10/23/2021 at 12:19am [Comment ID: 251]

Agree: 0, Disagree: 0

If UH or another seeks to develop this, they will be met with the same opposition. Kanaka Maoli must be consulted on these matters first and foremost. This statement directly conflicts with the entire section stated at the very beginning of this document regarding the ongoing debate surrounding Mauna Kea. If this "debate" has only been surrounding the Thirty Meter Telescope, envision the "debate" and opposition that will erupt through additional development of the mauna past this project.
2.4.3 ASTRONOMY FACILITY DECOMMISSIONING AND SITE RESTORATION IN THE PLANS

As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR. This Master Plan addresses how astronomy facilities that will continue beyond the end of 2033 will be identified (Section 4.3.2.2 and Appendix D); those facilities that will not continue beyond the end of 2033 will need to be decommissioned before the end of 2033. The CMP provides for the site decommissioning and restoration process to be followed once an astronomical facility decides to cease operation. Specific steps related to decommissioning a facility and the restoration of the astronomy site on which it was erected, if that is the path selected, are outlined in the CMP.

2.5 CAPITAL IMPROVEMENT APPROVALS AND FUNDING

The Master Plan provides a framework within which to consider the concepts discussed and also future proposals that could achieve the same goals and objectives of the Master Plan. The implementation of the capital improvements (the facilities) envisioned in this Master Plan will require additional planning and then investments. This Master Plan does not make any final decisions on any facilities or land uses. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering and/or may be proposing but which it has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. There are many ways to contribute to achieving this plan’s goals; the facilities and projects mentioned in this plan are but one concept of how UH and other entities, e.g., astronomical research organizations, may proceed. All facilities and land uses suggested herein, or that may be considered in the future, may need additional applicable government approval(s) and environmental review(s).

Investments in and funding for facilities on Maunakea typically come for a variety of partners. Similarly, operating and management resources are derived from a wide variety of sources. It is the astronomy facilities that provide significant resources, not just to operate and maintain their facilities, but to implement the CMP and operate and maintain shared infrastructure, such as the Mauna Kea Access Road and the Visitor Information Station. Many of the astronomy facilities on Maunakea are multinational partnerships and any new astronomy facilities (e.g., modification and recycling projects) are likely to be multinational partnerships.

UH will continue to seek innovative methods to fund non-astronomy capital improvements and the operation and maintenance on Maunakea public areas. The astronomy facilities and UH will provide certain resources while other potential resources include (i) commercial tour and film fees, (ii) entrance fees for non-Hawaii residents, (iii) federal, state, or private grants, (iv) federal and/or state expenditures, and (v) other opportunities.
#283

Posted by Helaakaiminaauao on 09/12/2021 at 1:00pm [Comment ID: 25]
Agree: 0, Disagree: 0
Positive changes for the future and encompasses the needs of everyone

#284

Posted by drkthomp on 10/25/2021 at 9:00pm [Comment ID: 358]
Agree: 0, Disagree: 0
"commercial tour and film fees" seem directly at odds with stewardship goal on Pg. 1-4 in Section 1.4.1, particularly protecting Maunakea as a wahi pana and wao akua, and ensuring that public activities are conducted in a manner that respects Native Hawaiian practices.

#285

Posted by FehrenHi on 10/26/2021 at 7:21am [Comment ID: 407]
Agree: 0, Disagree: 0
Caught between the abusive mismanagement of the past and having a hopeful change of the future. Build trust with the Native Hawaiian. The emotional and mental damage that University of Hawai’i and DNLR has done, still hurts. NO TMT!!! All Hawaiians should have access to Mauna Kea at all times, especially native practitioners. No more telescopes to be built. Current telescopes is an eyesore, like a manmade cyst on an infant's pure skin. Use and care of the telescopes that are currently working. Malama them first. Keep your words of decommissioning. Educate visitors, the truth of care and overthrow, and have them pay a fee. All funds should support non profits, Hawaiian charters schools, Hawaiian communities, assist in kick starting grassroots organizations. I havent had much time into reading/keeping up with the latest. I'll look into this a bit more when time allows. Mahalo for your time.

#286

Posted by Cassidy Bennett on 10/25/2021 at 1:43pm [Comment ID: 309]
Type: Suggestion
Agree: 0, Disagree: 0
Commerical tours and films seem to directly contradict other sections that include stewardship goals (Pg. 1-4, Section 1.4.1).

#287

Posted by dgarcia2727 on 10/26/2021 at 12:02pm [Comment ID: 471]
Type: Suggestion
Agree: 0, Disagree: 0
In your stewardship goal section, you mentioned that you wish to respect Native Hawaiian practices and build relationships between the mauna and its special
caretakers. You also mention that you hope to further a knowledge based economy within Hawaii, instead of the current exploitative relationship with the tourism industry. However, now you mention that there will be entrance fees for non-Hawaii residents, and fees from commercial tour and film fees. You still wish to capitalize off of the Mauna and work within the tourism industry to profit and maintain your so-called stewardship of the Mauna.

#288

Posted by Jonah Bobilin on 10/21/2021 at 2:01pm [Comment ID: 212]
Type: Suggestion
Agree: 0, Disagree: 0

Item (i) and (ii) should be carefully examined if they are to be implemented moving forward. Commercial tour fees could be used as justification to increase activity involving the tourist industry on Mauna Kea, however this document has specifically described UH activity on the mountain as a means to diversify the local economy, invest in science/technology, and move away from a dependence on tourism.

Film fees could be used as justification to increase activity involving commercial film production which tends to negatively impact the environment and does not seem in particular alignment with the "Objectives Under this Stewardship Goal" listed in Section 1.4.1.

Item (ii) raises the possibility of entrance fees for non-Hawaii residents. If implemented, an exemption should be made for indigenous Hawaiians in the diaspora who may not be residents of the State of Hawaii, but may still wish to visit the mountain for spiritual reasons.

#289

Posted by Lehuakona on 10/25/2021 at 9:09pm [Comment ID: 359]
Agree: 0, Disagree: 0

I do not think the plan should commit to the assumption that decommisioning will be the best choice for these sites in the future. The Fossil fuel consumption involved is a great cost to the environment and will only be worse in the future, as well as likely a great deal more costly. Better to reuse and enhance what is already built.

#290

Posted by Anonymous1 on 10/26/2021 at 12:41pm [Comment ID: 475]
Agree: 0, Disagree: 0

There are many good intentions in this masterplan, an attempt to respect and honor Mauna Kea as a cultural, historical, and spiritual place of reverence. I like the balance goal, and the idea of education programs outside of astronomy. These are good starts. I know that UH is not responsible for the injustices of the past, neither is UH responsible for the current and systemic genocide of Kanaka Maoli. It is a difficult thing to navigate.
However, UH has inherently been part of a corrupt system upon which our colonial society was built, and has the opportunity to reinvent itself in a way that aligns with justice, equity, and the balance of power. After reading this masterplan, I think there is a desire for such reinvention.

I suggest that the Astronomy Goal to be "the best" or "cutting-edge" be de-prioritized in favor of being in harmony with Kanaka Maoli --not just with some, but with the majority. Our Western ideas of competition and monetary gain has led human kind to the brink of extinction. We must realize that Indigenous people are carrying ancient wisdom that can bring us back into balance in ways that all our Western education has failed. It's not enough to have good intentions. We must give Indigenous people everywhere the power to steward their own lands, and for UH it means giving Kanaka Maoli the power to disapprove of any project for any reason.

Nothing is more important than building the foundations of society upon justice, harmony, and peaceful co-existence. As the corrupt foundations of past continue to crack and crumble, I pray that we become like the wise man who built his house on the rock, not the shifting sands.

I have faith in UH and E O I Ka Leo to do the right thing for the people of Hawaii.

Aloha no

#291

Posted by jmakyoku on 10/26/2021 at 7:35pm [Comment ID: 506]

Type: Correction
Agree: 0, Disagree: 0

No. You will not denigrate Maunakea for people to sightsee and commercialize. The Stewardship Goal objectives include minimizing the adverse effects of human activities, and yet you want to increase the flows of people through the environment

#292

Posted by Kyle H Ngitregd on 10/23/2021 at 12:19pm [Comment ID: 256]

Type: Suggestion
Agree: 0, Disagree: 0

Maunakea is sacred to my people and they do not consent to TMT. Please stop all construction, plans to construct TMT on Maunakea. I do not consent for TMT to be built on Maunakea. Mahalo.

#293

Posted by pi314 on 10/25/2021 at 6:00am [Comment ID: 281]

Agree: 0, Disagree: 0

The number of sites should NOT be limited to 9. It should be increased. Maunakea is the single best site on the planet for astronomy. Limiting the number of sites to 9 is limiting the potential for scientific discovery for all mankind. That should weight heavily on everyone. 13 was a reasonable number with demonstrated limited impact.

#294
Posted by **HiloResident** on **10/06/2021** at **12:16pm** [Comment ID: 119]

**Type:** Suggestion  
**Agree:** 0, **Disagree:** 0  
UH should not be in the business of arbitrarily limiting the number of facilities.

#295

Posted by **Anonymous1** on **10/26/2021** at **12:41pm** [Comment ID: 474]  
**Agree:** 0, **Disagree:** 0  
There are many good intentions in this masterplan, an attempt to respect and honor Mauna Kea as a cultural, historical, and spiritual place of reverence. I like the balance goal, and the idea of education programs outside of astronomy. These are good starts. I know that UH is not responsible for the injustices of the past, neither is UH responsible for the current and systemic genocide of Kanaka Maoli. It is a difficult thing to navigate. However, UH has inherently been part of a corrupt system upon which our colonial society was built, and has the opportunity to reinvent itself in a way that aligns with justice, equity, and the balance of power. After reading this masterplan, I think there is a desire for such reinvention.

I suggest that the Astronomy Goal to be "the best" or "cutting-edge" be de-prioritized in favor of being in harmony with Kanaka Maoli --not just with some, but with the majority. Our Western ideas of competition and monetary gain has led human kind to the brink of extinction. We must realize that Indigenous people are carrying ancient wisdom that can bring us back into balance in ways that all our Western education has failed. It's not enough to have good intentions. We must give Indigenous people everywhere the power to steward their own lands, and for UH it means giving Kanaka Maoli the power to disapprove of any project for any reason. Nothing is more important than building the foundations of society upon justice, harmony, and peaceful co-existence. As the corrupt foundations of past continue to crack and crumble, I pray that we become like the wise man who built his house on the rock, not the shifting sands. I have faith in UH and E O I Ka Leo to do the right thing for the people of Hawaii. Aloha no

#296

Posted by **Olivia Nohealani Guarna** on **10/26/2021** at **3:08pm** [Comment ID: 483]  
**Type:** Suggestion  
**Agree:** 0, **Disagree:** 0  
This is a good suggestion so long as it also exempts Native Hawaiians who are not residents (i.e. nobody from the Native Hawaiian diaspora will pay fees to enter).

#297

Posted by **Anonymous** on **10/23/2021** at **12:28am** [Comment ID: 253]  
**Agree:** 0, **Disagree:** 0  
UH should view and approach these documents as if applying for a grant, with more
specific details and transparency for those reviewing it. Though detailed as it is so far, it is still broad that it does not specify entities, organizations, communities, or processes to certain things that must be fleshed out before this can be approved or even considered.
DRAFT MASTER PLAN FOR THE UNIVERSITY OF HAWAIʻI MAUNAKEA LANDS
E Ō I Ka Leo (LISTEN TO THE VOICE)*

*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

SEPTEMBER 2021
#001

Posted by Anonymous on 10/20/2021 at 4:29am [Comment ID: 202]
Type: Correction
Agree: 0, Disagree: 0

STOP DESTROYING NATIVE SACRED LAND FOR YOUR CAPITALIST EXPLOITATION

#002

Posted by Elizabeth Jennys on 10/13/2021 at 2:49am [Comment ID: 166]
Type: Suggestion
Agree: 0, Disagree: 0

Mains Kea is a sacred site and should not be built on. Native Hawaiians have been saying so for years. They oppose this structure, and their voices and rights should be respected.

#003

Posted by Ivy Iaea-McIntosh on 10/26/2021 at 2:34pm [Comment ID: 481]
Agree: 0, Disagree: 0

Aloha Everyone,

ʻO wau ʻo Ivy Iaea-McIntosh I am kanaka ʻōiwi and I was born and raised on Kauaʻi. I am an Early Childhood Educator and committed to the overall health/wellbeing of kānaka ʻōiwi.

Here is my statement.

First of all, I would like to say that this should not be considered consultation. I am not here to “consult” with the institution of the colonizer on how to desecrate our sacred Mountain.

Second, I would like to inform you that I am recording this.

Thirdly I would like to read the statement to you that 235 other people submitted (as of today) in opposition to the proposed Draft UH Master Plan.

• For decades, kanaka maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

• There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
• There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

• Over half a million kanaka maoli, Hawai‘i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

• There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. There were many more arrests.

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• There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. There were many more other arrests as well.

• On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai‘i’s native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.

• The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

• Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

• Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pōhakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!
An additional point I want to bring up is the lack of access to hard copies of the Master Plan and the Appendixes. This was brought to my attention by a Kūpuna on Moku o Keawe (Hawai‘i Island) and is an issue for other Kūpuna who do not have access to the online system.

#004

Posted by Donna R. Goodale on 10/03/2021 at 4:11pm [Comment ID: 84]
Type: Suggestion
Agree: 0, Disagree: 0
I am in favor of the plan as delineated here.
Part 2: Physical Plan
Respect the land! TMT will not be built on Mauna Kea EVER.
# E Ō I KA LEO (LISTEN TO THE VOICE)
## TABLE OF CONTENTS

### PART 2: PHYSICAL PLAN

**INTRODUCTION**

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 3: HALEPŌHAKU</td>
</tr>
<tr>
<td>3.1 Planning Context</td>
</tr>
<tr>
<td>3.1.1 Background</td>
</tr>
<tr>
<td>3.1.2 Limitations on New Development at Halepōhaku</td>
</tr>
<tr>
<td>3.1.3 UH Commitments Regarding Use of Halepōhaku</td>
</tr>
<tr>
<td>3.2 MKSS Baseyard</td>
</tr>
<tr>
<td>3.3 UH HILO EDUCATIONAL TELESCOPE</td>
</tr>
<tr>
<td>3.3.1 Background</td>
</tr>
<tr>
<td>3.3.2 Educational Telescope at Halepōhaku</td>
</tr>
<tr>
<td>3.4 OTHER HALEPŌHAKU FACILITIES</td>
</tr>
<tr>
<td>3.4.1 Repurposing Overview</td>
</tr>
<tr>
<td>3.4.2 Specific Projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 4: MAUNA KEA SCIENCE RESERVE</td>
</tr>
<tr>
<td>4.1 Planning Context</td>
</tr>
<tr>
<td>4.1.1 Background</td>
</tr>
<tr>
<td>4.1.2 UH Commitments</td>
</tr>
<tr>
<td>4.2 MANAGEMENT &amp; STEWARDSHIP-RELATED FACILITIES &amp; PROJECTS</td>
</tr>
<tr>
<td>4.2.1 Addressing Stewardship Measures in the CMP</td>
</tr>
<tr>
<td>4.2.2 Facilitating Public Activities</td>
</tr>
<tr>
<td>4.3 EDUCATION, RESEARCH, AND ASTRONOMY FACILITIES</td>
</tr>
<tr>
<td>4.3.1 Diverse Education and Research Facilities and Developments</td>
</tr>
<tr>
<td>4.3.2 Astronomy Decommissionings</td>
</tr>
<tr>
<td>4.3.3 Continued Operation, Modifying, and/or Recycling Astronomy Sites and Facilities</td>
</tr>
<tr>
<td>4.3.4 Other Potential Astronomy-Related Projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 5: ROADWAYS, UTILITIES, AND MANAGED ACCESS</td>
</tr>
<tr>
<td>5.1 ROADWAYS</td>
</tr>
<tr>
<td>5.2 UTILITIES</td>
</tr>
<tr>
<td>5.2.1 Electrical Power</td>
</tr>
<tr>
<td>5.2.2 Communication and Data</td>
</tr>
<tr>
<td>5.2.3 Water Supply</td>
</tr>
<tr>
<td>5.2.4 Wastewater Management</td>
</tr>
<tr>
<td>5.3 FACILITIES TO MANAGE ACCESS</td>
</tr>
<tr>
<td>5.3.1 Conceptual Initial Phase Access Management Facilities</td>
</tr>
<tr>
<td>5.3.2 Phase 2 Access Management Facilities Concept</td>
</tr>
</tbody>
</table>
Which voice is UH really listening to? Their investors and their own. UH already knows what the true voice, the voice of the kānaka ʻōiwi, have to say and that is NO to TMT. Making it like you are playing "nice" with the people of this ʻāina is ridiculous and disrespectful.
LIST OF FIGURES

Figure 3-1: Halepōhaku Overview ................................................................. 3-2
Figure 3-2: Federally Designated Critical Habitat for Palila ........................................ 3-4
Figure 3-3: PlaneWave Instruments CDK700 ................................................................. 3-7
Figure 3-4: Conceptual Illustration of Educational Telescope by Dormitory A ......................... 3-8
Figure 4-1: Mauna Kea Science Reserve Astronomy Sites .............................................. 4-3
Figure 4-2: Archaeology Sites in the UH Maunakea Lands ................................................... 4-8
Figure 4-3: Potential Parking Project Locations in Summit Region ..................................... 4-10
Figure 4-4: Potential Amendment of Astronomy Site 7 and 8 Boundaries ......................... 4-19
Figure 5-1: Potential Road Project Locations .............................................................. 5-2
Figure 5-2: Schematic Illustrating Conceptual Initial Phase Facility Operation .................. 5-7
Figure 5-3: Conceptual Schematic Indicating Area for Managed Access Initial Phase Facilities ................................................................................................................... 5-8

LIST OF TABLES

Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve ................. 4-2
Table 4-2: Probability of Modification or Recycling by Astronomy Site ........................ 4-15
### ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
</tr>
<tr>
<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
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<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
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<tr>
<td>CDUA</td>
<td>Conservation District Use Application</td>
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<td>CDUP</td>
<td>Conservation District Use Permit</td>
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<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<td>CIP</td>
<td>Capital Improvement Project</td>
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<tr>
<td>CMP</td>
<td>Comprehensive Management Plan&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<tr>
<td>CRMP</td>
<td>Cultural Resources Management Plan</td>
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<td>CSO</td>
<td>Caltech Submillimeter Observatory</td>
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<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<td>DESI</td>
<td>Dark Energy Spectroscopic Instrument</td>
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<tr>
<td>DHHL</td>
<td>Department of Hawaiian Home Lands</td>
</tr>
<tr>
<td>DLNR</td>
<td>Department of Land and Natural Resources</td>
</tr>
<tr>
<td>DOFAW</td>
<td>Division of Forestry and Wildlife (DLNR)</td>
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<tr>
<td>EA</td>
<td>Environmental Assessment</td>
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<tr>
<td>EDD</td>
<td>Environmental Due Diligence</td>
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<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>EISPN</td>
<td>EIS Preparation Notice</td>
</tr>
<tr>
<td>ESA</td>
<td>Environmental Site Assessment</td>
</tr>
<tr>
<td>General Lease</td>
<td>General Lease S-4191 from BLNR to UH, which expires December 31, 2033</td>
</tr>
<tr>
<td>GRACES</td>
<td>Gemini Remote Access to CFHT ESPaDOnS Spectrograph</td>
</tr>
<tr>
<td>GRP</td>
<td>Grouted rubble pavement</td>
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<tr>
<td>HAR</td>
<td>Hawai‘i Administrative Rules</td>
</tr>
<tr>
<td>HDOT</td>
<td>Hawai‘i Department of Transportation</td>
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<td>HECO</td>
<td>Hawaiian Electric Company</td>
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<td>HRS</td>
<td>Hawai‘i Revised Statutes</td>
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<tr>
<td>HVAC</td>
<td>Heating, ventilation, and air conditioning</td>
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<td>IfA</td>
<td>Institute for Astronomy</td>
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<tr>
<td>‘Imiloa</td>
<td>‘Imiloa Astronomy Center of Hawai‘i</td>
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<tr>
<td>IR</td>
<td>Infrared</td>
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<tr>
<td>IRTF</td>
<td>NASA Infrared Telescope Facility</td>
</tr>
<tr>
<td>JCMT</td>
<td>James Clerk Maxwell Telescope</td>
</tr>
</tbody>
</table>

<sup>1</sup> Unless stated otherwise, the term “CMP,” as used in this document, is inclusive of (i) the *Mauna Kea Comprehensive Management Plan, UH Management Areas* dated April 2009; (ii) the *Natural Resources Management Plan for the UH Management Areas on Mauna Kea, A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated September 2009; (iii) *A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea, Ka‘ohe Ahupua‘a, Hāmākua District, Hawai‘i Island, State of Hawaii, TMKI: (3) 4-4-013: 09, 12, A Sub-Plan for the Mauna Kea Comprehensive Management Plan* dated October 2009; (iv) the *Public Access Plan for the UH Management Areas on Mauna Kea* dated January 2010; and (v) the *Decommissioning Plan for the Mauna Kea Observatories, a Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated January 2010.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KKM</td>
<td>Kahu Kū Mauna</td>
</tr>
<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
</tr>
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<td>MKO</td>
<td>Maunakea Observatories</td>
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<tr>
<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
</tr>
<tr>
<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
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<tr>
<td>MSE</td>
<td>Maunakea Spectroscopic Explorer</td>
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<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
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<tr>
<td>NAR</td>
<td>Natural Area Reserve (DLNR)</td>
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<td>NOI</td>
<td>Notice of Intent</td>
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<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>OCCL</td>
<td>Office of Conservation and Coastal Lands (DLNR)</td>
</tr>
<tr>
<td>OHANA</td>
<td>Optical Hawaiian Array for Nanoradian Astronomy</td>
</tr>
<tr>
<td>OMKM</td>
<td>Office of Maunakea Management</td>
</tr>
<tr>
<td>PV</td>
<td>Photovoltaic</td>
</tr>
<tr>
<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
</tr>
<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
</tr>
<tr>
<td>TMK</td>
<td>Tax Map Key</td>
</tr>
<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
</tr>
<tr>
<td>UC</td>
<td>University of California</td>
</tr>
<tr>
<td>UH</td>
<td>University of Hawaiʻi</td>
</tr>
<tr>
<td>UH Hilo</td>
<td>University of Hawaiʻi at Hilo</td>
</tr>
<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
</tr>
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<td>VIS</td>
<td>Visitor Information Station</td>
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<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
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<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
</tr>
</tbody>
</table>
INTRODUCTION

This part of the Master Plan, Part 2, discusses the facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Part 1 of the Master Plan provides important context for understanding the scope of facilities and land uses discussed in Part 2. Part 3 of the Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under the DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan.

The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives outlined in Part 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands. The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. This Master Plan also includes a framework for UH to consider proposals not identified in this Master Plan (see Part 3).

Proposals considered land uses will first need to be reviewed and approved by UH (see Part 3 of this Master Plan). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring a Conservation District Use permit or approval.

Proposed facilities and developments within UH Maunakea Lands must meet the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.

---

13 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

14 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled “Public and Commercial Activities on Mauna Kea Lands” and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP, which is about the management of the UH Maunakea lands.

15 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
Agree: 0, Disagree: 0

It should be added that the community should be consulted with any new projects or plans. UH should not be the sole decider in what gets built on Mauna Kea.
• Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable, 
  - Employ world-class technology, research techniques, and design.

• Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

• Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated.

An overarching requirement for any proposal is consultation and outreach with impacted communities and interested persons, including native Hawaiian practitioners, the Hawai‘i Island community, and existing users.

The following Part 2 chapters discuss the facilities and developments that UH believes may occur on UH Maunakea Lands over the period of this Master Plan by area and topic.

The facilities and land uses identified and discussed in this Master Plan are possible future programs and projects that UH is considering but has not approved, adopted, or funded. The approval of this Master Plan by the UH Board of Regents (BOR) does not constitute the approval or permitting of any land use discussed herein.
Suggest making the language in these 3 bullet points clearer. See the following suggested new language, which is what I think you are trying to say:

"In addition, UH will:

(1) Evaluate where appropriate the extent to which the proposed facility and/or development will benefit from the conditions present within the UH Maunakea Lands and, if applicable, employ world class technology, research techniques and design;

(2) Confirm the proposal will not significantly harm Maunakea’s resources; and

(3) Determine whether any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated."

"Not significantly harm Maunakea’s resources" is not nearly good enough. This sacred site should not be harmed at all.

Still just such a side note here. This should be at the utmost priority.
3 HALEPŌHAKU

This chapter addresses Halepōhaku (TMK No. (3) 4-4-015:012), which is officially named the Onizuka Center for International Astronomy but is now more commonly known as Halepōhaku. This 19.261-acre parcel, which ranges in elevation from ~9,100 to ~9,300 feet above sea level on the southern flank of Maunakea, is home to the facilities that UH uses to manage and support activities in Maunakea’s high elevation areas. Figure 3-1 illustrates the facilities that are presently located there.

The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management. Those facilities contribute significantly to the achievement of UH goals and objectives. Specifically, Halepōhaku facilities will continue to house support services, be the basepoint for stewardship activities, provide office space for entities with activities on the mountain, and provide short-term lodging for individuals whose work calls for them to be spend more than short periods in the summit area. UH intends to re-purpose and reassign existing underutilized facilities to support expanded education and research focused on Maunakea resources beyond astronomy. The range of education, research, and cultural activities that could benefit from the resources and conditions at Halepōhaku is broad.

3.1 PLANNING CONTEXT

3.1.1 BACKGROUND

The UH-developed facilities at Halepōhaku were originally designed to serve three purposes: (i) as a mid-elevation support center for astronomy activities situated in the MKSR; (ii) as a central point for management of astronomy facilities and support services on Maunakea; and (iii) as a day-use destination point for visitors where they could learn about astronomy, natural resources, and the cultural landscape. These facilities were designed and constructed to accommodate the amount and type of activity that could be foreseen in the closing decades of the 20th century, and they have served their purpose well. However, technological changes in the way astronomical observations are made, the evolution of visitation on the mountain, and the greatly increased interest in learning about and sustainably managing Maunakea’s cultural landscape and natural resources mean that adjustments are needed.

While some of the Halepōhaku facilities, principally those at the MKSS baseyard, continue to be appropriately sized and configured for current and anticipated needs, others are not. Some, primarily the Visitor Information Station (VIS), are too small to meet recent demand if the visitation continues as it has in the past, i.e., with large numbers of visitors arriving in small groups in private vehicles. In addition, the size of the dormitories and common area exceed what is needed to support astronomy and management in the foreseeable future. Finally, the existing spaces are not configured to accommodate the diversified educational activities that are envisioned. Additional detail regarding this follows below.
Instead of increasing facility capacity, there should be a focus on spreading out and limiting tourism visitation. Visitation should not be encouraged in this way, it should be managed with a stronger hand. You're opening the doors wide open. Limit the number of people who can come up on the Mauna each day, space out reservations over the course of multiple days, etc. Your priority is clearly to spend money on expanding these tourist opportunities and to add in a few sustainability resources here and there. This is not listening to the voices who have been trying to protect Mauna Kea.

The specificity of the goals of UH and the vagueness of the additional priorities to protecting Mauna Kea is so clear here. Also, we are not asking for more facilities up there including cultural or educational facilities. We are asking for permanent decommissioning of all facilities.

If it's a sustainability issue, then LESS people and facilities seems to be the only answer.
Figure 3-1: Halepōhaku Overview

Source: UH and GoogleEarth
VIS. The VIS building is woefully inadequate to support the number of visitors it has been called upon to serve in recent years. Beyond a continued fascination with high-elevation locations, it is believed that contributing factors include an increase in out-of-state travel to Hawai‘i, an increase in the number and mobility of Hawai‘i Island residents, easier access to Maunakea brought about by the completion of the Daniel K. Inouye Highway, the Kilauea eruption temporarily closing other visitor attractions, and social media. Whatever the cause, there is no evidence that the number of persons, both Hawai‘i Island residents and off-island visitors wishing to experience the mountain, will decrease; if anything, the demand is likely to grow.

Mid-Level Support Facilities. In contrast to the VIS, the facilities that were developed in the 1980s to accommodate management and astronomy personnel are now over-sized relative to that demand. There are several reasons for this, but the two principal ones are the advent of remote viewing as a practical alternative to working at the summit and the ease of commuting to the astronomy facilities from either Hilo or Waimea via the Daniel K. Inouye Highway (Saddle Road). The trend toward greater remote viewing, the decommissioning of some facilities in the MKSR, and a likely continuing shift toward remote operation of telescopes will likely further decrease demand for lodging, meals, and office space by astronomy facility personnel. The exact level of such usage is difficult to predict, and it will be variable. Some personnel will always need to work at the astronomy facilities, and they will continue to use the Mid-Level Support Facilities as a place to rest, eat, work, and sometimes sleep. There will also continue to be short-term projects at the astronomy facilities, and the Mid-Level Support Facilities will need surge capacity to support those. However, based on current and past usage, UH’s expectation is that no more than a third of the space designed for these purposes will be required going forward.

Over the last several decades, the Mid-Level Support Facilities have increasingly been utilized by stewardship personnel. This includes the Rangers and other CMS personnel and their equipment and materials. Since the approval of the CMP, the level of management necessary to maintain safety and minimize impacts to the cultural landscape and natural resources has consistently increased. UH has learned many lessons regarding its stewardship obligations and is dedicated to continual improvement. As the use of these facilities by astronomy personnel decrease, their use by stewardship personnel will increase, but at a much slower rate.

Educational Facilities. At present, what public educational activity there is at Halepōhaku occurs at the VIS, and it is focused on day-trippers, many of whom reside off-island. The work that has been done on this Master Plan has revealed a need and desire to greatly expand the extent to which educational programs based on Maunakea’s cultural landscape and natural resources are made available to the public.

16 The Mid-Level Support Facilities are currently designated by CDUP 1430 (condition 25) for the exclusive use of astronomy facility staff and those whose work, research, or provide technical support is directly related to activities in the MKSR.
17 Remote operation is when the telescope operators work remotely. The telescope operators are the people that open and close the dome, manipulate the telescope and its instruments to collect the observational data requested by the astronomer. Astronomers have been using “remote viewing” for years; remote operation is being developed and is expected to become more prevalent over the period of this Master Plan.
18 Surge capacity would support, for example, temporary construction, maintenance, installation of new instruments, or repair projects. Personnel involved in long-term construction or decommissioning projects are not expected to regularly stay at Halepōhaku.
#014

Posted by **Georjean Adams** on **10/12/2021** at **5:25pm** [Comment ID: 161]

*Type: Suggestion*

*Agree: 0, Disagree: 0*

Not clear what is planned for VIS. Will it be subject to proposal and review described in Part 3? It should be coordinated with public communications on restricted access to summit or somehow discourage overwhelming crowds.

---

#015

Posted by **anonymous** on **10/26/2021** at **11:14am** [Comment ID: 453]

*Agree: 0, Disagree: 0*

You are contributing to the reliance on Hawai‘i tourism. Know that.
3.1.2 LIMITATIONS ON NEW DEVELOPMENT AT HALEPÔHAKU

3.1.2.1 Critical Habitat

Halepôhaku is within the federally designated critical habitat for the endangered Palila (*Loxioides bailleui*) (Figure 3-2). Palila are only found on the island of Hawai'i with over 95 percent of the population restricted to the southwest slopes of Maunakea. They occur only in the dry māmane and māmane-naio forest between 6,500- and 9,250-foot elevation. Māmane (*Sophora chrysophylla*) is endemic to the Hawaiian Islands and are present throughout Halepôhaku. Māmane are not listed as threatened or endangered but are a critical food source for the Palila. Palila have been observed at Halepôhaku occasionally but are not frequently present and Halepôhaku is not considered preferred nesting habitat for Palila due to the relative constant human activity.

**Figure 3-2: Federally Designated Critical Habitat for Palila**

Any development at Halepôhaku on previously undisturbed land that results in the removal of māmane trees could cause an adverse impact to Palila designated critical habitat, which could be a limiting factor in adding new facilities there. CMS has an ongoing program to propagate and outplant māmane trees within Halepôhaku and take additional actions to improve the habitat for Palila, but it is too early to evaluate how successful that program will be. The DLNR, which is...
There are often so many trade-offs in which the ecology/biology lose. We justify the need for development incessantly. Consider Island-wide conservation efforts in the name of UH and Mauna Kea. And wherever possible, downsize the developed area returning it to native vegetation.

Limiting factor? There should not be any considerations at all. It is the only factor that matters. You say that taking care of the Mauna and its inhabitants is a priority and this language just shows that it’s all about where to place new facilities and how it’s inconvenient to consider the natural landscape and animals. This is also just such an honest report of how UH really feels while constantly saying things “we’re doing everything we can to protect Mauna Kea.” We understand your words are not true.

This comment here is exactly the issue. The Palila would nest at Halepōhaku except for the presence of human activity. This is admitting that the endangered species would have more space to live if it were not for the astronomy development up there.
leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.

3.1.2.2 **Operational Cost Considerations**

Because of its location, it is costly to operate facilities at Halepōhaku. All water and other supplies must be trucked up the mountain. Wastewater collection, treatment, and disposal are relatively expensive to provide. All food service must be accommodated by UH-provided facilities and personnel. Vehicular parking is limited and costly to expand. Given these factors, activities at Halepōhaku are limited to those which focus on the cultural landscape and natural resources present immediately in and around it.

3.1.3 **UH Commitments Regarding Use of Halepōhaku**

In view of the limitations outlined above, UH will adhere to the following precepts in making decisions related to facilities, developments, and disturbances at Halepōhaku:

- Existing structures will be repurposed and utilization of existing space maximized before new facilities are proposed.
- Proposed developments will be sited in previously disturbed areas devoid of native vegetation to the maximum extent practicable.
- The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope (Section 3.3). The only other telescopes that will regularly be present at Halepōhaku will be small portable star-gazing telescopes that are set up and then removed and stored after use.
- UH will manage vehicular access in a way that forestalls the need to expand parking within Halepōhaku beyond the locations where it presently exists.
- UH will continue its habitat restoration efforts within Halepōhaku and utilize Halepōhaku to assist and/or support conservation efforts by others on the upper slopes of Maunakea.

3.2 **MKSS Baseyard**

As illustrated in Figure 3-1, the uppermost part of Halepōhaku contains the MKSS baseyard, which contains structures, equipment, and storage areas utilized for logistical services and support. These are used to maintain the Mauna Kea Access Road above Halepōhaku and in support of operations of other Halepōhaku facilities. The MKSS baseyard provides sufficient space to accommodate MKSS’ current and forecast needs.

Because the size and location of the existing baseyard facilities are deemed by MKSS to be adequate for the foreseeable future, no fundamental changes to it are likely to be proposed during the life of this Master Plan. However, refurbishment, updating, and modest enhancements that would improve the function and/or extend the operating life of the existing facilities were identified during the master planning process and may be undertaken over the term of this Master Plan. Examples include:
#019

Posted by **Kathy Shimizu** on **09/27/2021** at **12:24pm** [Comment ID: 80]

Type: Suggestion  
Agree: 0, Disagree: 0

How is the UH reaching out to the Hawaiian community to get involved?  
I don’t see too many natives involved in work in the area?

#020

Posted by **sam nelson** on **10/24/2021** at **5:17pm** [Comment ID: 263]

Type: Suggestion  
Agree: 0, Disagree: 0

parking across from the visitor center was blocked off- why not reopen that. That would allow parking at minimal cost

#021

Posted by **anonymous** on **10/26/2021** at **11:35am** [Comment ID: 460]

Agree: 0, Disagree: 0

So, your solution is to create a new telescope. Please provide more information on why this is necessary to build anything remotely near this area.
• Upgrading fuel storage by July 15, 2028, to comply with new regulations requiring double-walled tanks.

• Paving portions of the baseyard that now have only a gravel base-course cover to improve efficiency and safety.

• Improving portions of the baseyard area, currently in limited use, for the storage of material and equipment associated with resource maintenance and management on Maunakea and making minor improvements (e.g., vegetation clearance or rough grading) needed to allow that.

3.3 UH HILO EDUCATIONAL TELESCOPE

3.3.1 BACKGROUND

The Department of Physics and Astronomy at UH Hilo offers two programs, the Bachelor of Science degree in Astronomy and Bachelor of Arts degree in Physics. Both degrees have their own mission statements, which are closely aligned with the mission of UH Hilo at large. The UH Hilo astronomy program aims to: (i) develop the science knowledge and analytic skills of students, whether they be majors or not, through a focus on the field of astronomy and (ii) instill an appreciation of science, particularly astronomy, in students. The program provides its students with transferable skills so they can excel in a wide range of STEM-related fields. It presently offers astronomy courses every semester that are designed to build expertise in data acquisition and analysis and to provide hands-on experience handling the necessary hardware and software. Skills acquired through the programs position graduates for operations-related employment at the Mauna Kea Observatories (MKOs), employment in other STEM-related fields, or, for those who are committed to making a career of advanced research in the field of astronomy, graduate-level education in astronomy. Five of the courses have laboratory components that would use a telescope if it were available; educational material (e.g. celestial object pictures or spectra) produced during these laboratories could also be used during lecture-based courses. At one time, facilities at Astronomy Site 9 (Hōkū Keʻa) were used for this purpose, but those became unusable in 2006. UH Hilo acquired a state-of-the-art PlaneWave Instruments CDK700 (PIC700) telescope system, a suite of instruments, and a modern AstroHaven “clamshell” 18-foot dome for the laboratories. With an aperture of 0.7 meter (28 inches) and a focal ratio of F/6.5 (Figure 3-3), the PIC700 is currently housed in a room on the UH Hilo campus. While it can be used to train students on the purely mechanical aspects of telescope operations, at its current location it cannot be used to train students in real observing sessions.
#022

Posted by James A. Monk on 09/21/2021 at 11:30am [Comment ID: 66]
Type: Typo
Agree: 0, Disagree: 0
"become" should be changed to "became"

#023

Posted by CP on 10/26/2021 at 9:32pm [Comment ID: 533]
Type: Suggestion
Agree: 0, Disagree: 0
Consider the environmental impacts of paving. The drainage is better without paving. Keeping in mind pollution and general water runoff, erosion, and all water sources (above or below ground) connected to this area.
3.3.2 Educational Telescope at Halepōhaku

Both programs described above have identified a need for access to a working modern, small-aperture telescope on Maunakea as an important component of their desired educational programs. After an extensive search for a suitable site for the educational telescope (about 16 different locations were considered), UH Hilo identified an area at Halepōhaku as an excellent location for such an instrument. Skills acquired through the operation of such an educational telescope, along with visits to astronomy facilities in the MKSR, would better position the students for employment at the MKOs and elsewhere in the world astronomical research community. In addition, faculty and students at both UH Hilo and UH Mānoa would use it for laboratory courses and research projects. An educational telescope at Halepōhaku could also be employed for outreach events and for programs involving the Island community that would help UH build a stronger bond between astronomy on Maunakea and the community. It is expected that telescope time will be made available to students and the community interested in astronomy or for educational purposes.

The UH BOR Resolution 19-03 dated November 6, 2019 (Appendix C), directed that Astronomy Site 9 (Hōkū Ke’a) be decommissioned and that “...a new educational telescope facility for the University of Hawai‘i at Hilo shall be established at Halepōhaku or elsewhere.” UH’s present intent is to site the educational telescope within Halepōhaku, and it has commissioned a planning and design team for the proposed educational telescope project that will lead the project review process, prepare an HRS Chapter 343 environmental document, and prepare a Conservation District Use Application (CDUA) for the facility that UH will submit to DLNR.
#024

Posted by Andy Sheinis on 10/15/2021 at 12:40pm [Comment ID: 183]
Type: Suggestion
Agree: 0, Disagree: 0

Should you say that this will be the ONLY educational telescope at HP? or has that been decided?

#025

Posted by James Coulter on 09/24/2021 at 9:18pm [Comment ID: 79]
Agree: 0, Disagree: 0

Glad to see some sights decommissioned. Glad to see emphasis on an educational telescope for students. Most glad to read that emphasis will be placed on respecting and protecting cultural practitioners, and generally respecting the wishes of Hawaiian traditionalists. Also glad to hear of expansion and maintenance of trails and shelters and infrastructure for park rangers. I hope the decommissioning happens in a timely and thoughtful way. Perhaps if enough work is done to Ho’oponopono, the resistance to the TMT will decrease. But developing trust of the community takes time and consistency. Aloha.

#026

Posted by Andy Sheinis on 10/15/2021 at 12:39pm [Comment ID: 182]
Type: Suggestion
Agree: 0, Disagree: 0

Is there a way to make it very explicit that the educational facility is NOT subject to the 9 telescope limit? The plan states that the limit is for MKSR and HP is not part of the MKSR, but I worry that this could be misinterpreted as was the Governor's 10-point plan.... Overall, excellent plan! Obviously this has been a ton of work and it shows.

#027

Posted by anonymous on 10/26/2021 at 11:40am [Comment ID: 463]
Agree: 0, Disagree: 0

This idea is just another way to force Native Hawaiians into a world already dominated by the community who believe their progress comes before Native issues.
More specifically, UH Hilo has identified one primary and one backup location at Halepōhaku to date. The primary location is adjacent to the smallest of the four dormitories (Dormitory A) in the upper portion of Halepōhaku (see Figure 3-4). This site offers limited light pollution, good sky visibility, and is near power and communication infrastructure. The site has been tested using a smaller, portable telescope and was found to be suitable. An already identified backup location is land adjacent to one of the four Subaru-built construction cabins in the lower portion of Halepōhaku. This site is also believed to be suitable, but less so due to light pollution from passing vehicles on the main road. The proposed structure is comparatively much smaller than the astronomy facilities on the MKSR, with a profile that is no taller than existing Halepōhaku structures and taking up a small portion of a previously disturbed area. Additional and more refined alternatives may be identified as UH consults with the community as part of the planning and design team’s work.

Figure 3-4: Conceptual Illustration of Educational Telescope by Dormitory A

Source: http://hokulea.uhh.hawaii.edu/news.html

UH Hilo has passed the following educational telescope milestones:

- In February, 2020, it displayed the Planewave 0.7-meter telescope at the Imiloa Center. This was the first time that it was displayed to the public, and hundreds of persons stopped by, including a lot of young minds who could move the telescope using the control interface.

- In mid-2020, a project was formally initiated by UH Hilo for the educational telescope.

- In September, 2020, UH Hilo initiated a community outreach and consultation campaign regarding the possible installation of the new educational telescope. The effort included a virtual open house website, where diverse pieces of information are presented and where members of the public could record their questions and comments.

An EA is currently being developed and is expected to be available before the end of 2021.
#028

Posted by anonymous on 10/26/2021 at 11:39am [Comment ID: 462]
Agree: 0, Disagree: 0
Where are the results from this session? These info sessions need to be more accessible for everyone.

#029

Posted by anonymous on 10/26/2021 at 11:38am [Comment ID: 461]
Agree: 0, Disagree: 0
So, during this whole time UH has just decided to stoping "listening to the voice" and proceeded with a "solution" of adding another telescope.
3.4 OTHER HALEPŌHAKU FACILITIES

As described in Section 3.1, there have been dramatic changes over the past two decades in demand for facilities at Halepōhaku. Moreover, further changes are anticipated as UH implements access management that is called for in the CMP and that has been discussed in previous planning documents. UH seeks to accommodate current and anticipated future needs by re-aligning usage of the existing facilities with limited physical modifications to yield better outcomes for diverse stakeholders.

3.4.1 Repurposing Overview

UH is deeply committed to expanding research and educational opportunities on Maunakea in fields beyond world-class astronomy. UH seeks to engage scholars, students, and the public in a broad range of disciplines related to understanding, preserving, and enhancing the cultural landscape, historic properties, and natural resources of Maunakea. To support this broadened range of activity, UH envisions that portions of the facilities at Halepōhaku will evolve into an integrated “Multidisciplinary Field Station” that will support field studies and learning experiences across disciplines and will encourage opportunities for formal and informal collaboration and interaction. Beyond the educational benefit of field-learning, expanded educational and research programs would also expand the opportunity for applied research that would support and inform management actions called for in the CMP.

UH Hilo will be the lead UH campus for the broadened Halepōhaku mission. However, educational and research opportunities will be available throughout the UH System, and perhaps beyond. This will allow facility use (and associated costs) to be shared by multiple departments and schools within the UH system and perhaps others, together with the MKOs.

The Maunakea astronomy community, as a key user and primary funder of the Halepōhaku facilities, will be key participants in this evolution. Existing services for the astronomy community will continue, including food, lodging, and office space capable of supporting surge-levels when necessary, but downsizing will almost certainly be undertaken given the reduced level of astronomy-related use of the mid-level support housing and related space. UH managers (i.e., Rangers, CMS staff, etc.) will similarly retain the office space and other facilities they need to manage UH’s activities on Maunakea. CMS will seek opportunities for interaction and synergy between users of the Halepōhaku facilities to enhance scholarship, education, and mutual understanding. CMS will consult with various user groups through a process of repurposing to identify and mitigate potential conflicts arising due to the differing needs and desires of the various user groups.

The extent and specifics of the expanded program are yet to be fully defined, but to achieve its goals and optimize the usage of facilities that it continues to operate and maintain, UH anticipates the need to reconfigure, modify, repurpose, and/or remove certain facilities at Halepōhaku. Limited new facilities, such as the UH Hilo educational telescope, may also be developed. CMS and UH Hilo will continue to seek input from stakeholders and consider alternatives for the Field Station. Examples of possible repurposing concepts include:

- Expanding access to the “common building” and dorms (Figure 3-1) to non-astronomy faculty, researchers, students, and other UH-affiliated or -sponsored programs for food
#030

Posted by James A. Monk on 09/21/2021 at 11:37am [Comment ID: 67]
Type: Typo
Agree: 0, Disagree: 0
remove ")", insert ","
service, meetings, and overnight stays. It is envisioned that students from high schools age and older could utilize the lodging facilities while participating in resource-based educational programs.

- Repurposing existing facilities to accommodate classrooms, offices, laboratory facilities, and other Field Station needs.
- Repurposing the stone cabins (Figure 3-1) and associated water tanks to create additional space for visitor information and education and Ranger functions as well as water sources for conservation projects.
- Repurposing the construction cabins (Figure 3-1) to create additional space for visitor information and education and Ranger functions.

To the extent that re-purposing proves impractical, removal at some of the building sites may be appropriate.

### 3.4.2 Specific Projects

In addition to the general repurposing concepts discussed above, several specific proposals for projects at Halepōhaku have already been identified. They include, but are not limited to, the following:

- Grading and paving the currently unpaved parking area immediately to the west of the Halepōhaku “common building.” This may involve structural components and drainage components similar to the infrastructure improvements at the VIS that were completed in 2019.
- Conducting habitat rehabilitation or restoration projects as called for in the CMP.
- Producing and outplanting native species as called for in the CMP.
- Erecting educational, safety, and interpretive signs as called for in the CMP.
- Improving pedestrian connectivity between existing and future trails in the neighboring Forest Reserve that are sanctioned by DLNR, the “common building,” stone cabins, VIS, and/or construction cabins.
- Building new facilities or adding to existing facilities to support (i) the Field Station, (ii) the VIS and stargazing, and (iii) access management.

In addition to those projects listed above within Halepōhaku, access management facilities may be placed along the access road adjacent to Halepōhaku. These facilities would likely occur outside the boundaries of Halepōhaku (TMK No. (3) 4-4-015:012), and so are discussed in Section 5.3.
Visitor information services can be very over rated. They end up needing substantial funding for upgrading content and displays, parking area, etc. They can innately draw more people to an already impacted area without providing quality, quantitative educational outcomes. They end up closed for large portions of the day, closed when their governing body decides (covid, federal funding gaps, etc). Investing in more meaningful passive opportunities - cultural gathering spaces, protecting and highlighting (with collaboration and permission) cultural sites, investing in community based and classroom education that then feeds students into the higher learning opportunities on site. Strategic partnerships with hotels, tour agencies, airlines...rethink the ideas of visitor centers.

Wait, later in the draft it says the classrooms would not be added to the Mauna. Why are these considerations of additional facilities being presented here?
4 MAUNA KEA SCIENCE RESERVE

This chapter lays out the land use plan for TMK No. (3) 4-4-015:009, the area known as the Mauna Kea Science Reserve (MKSR). It discusses all facilities and projects likely to be proposed in the MKSR that may be deemed land uses under DLNR’s Conservation District Rules, except those related to roadways, utilities, and managed access (which are discussed in Chapter 5).

UH expects there to be few new facilities developed within the MKSR over this Master Plan’s duration. Nearly all land uses will occur in previously disturbed areas and where facilities exist today. Very little new ground disturbance will occur within the MKSR over the 20-year period; the vast majority of the MKSR will remain wilderness. Excluding roads and utilities, less than half of one percent of the approximately 11,288-acre MKSR has been disturbed/developed.

This Chapter is divided into the following main parts:

- Section 4.1 presents the MKSR planning context.
- Section 4.2 discusses facilities and developments that UH expects will be needed to carry out its management responsibilities, ensure responsible stewardship, and facilitate public activities.
- Section 4.3 discusses astronomy-related facilities and the other research and educational facilities and developments.

4.1 PLANNING CONTEXT

4.1.1 BACKGROUND

Maunakea was first identified as a highly desirable location to site astronomy facilities in the early 1960s, and subsequent testing and long experience with multiple astronomy facilities have confirmed that astronomical viewing conditions on Maunakea are second to none in the Northern Hemisphere. Those natural conditions and the now well-developed infrastructure make Maunakea a highly desirable location for astronomical research that attracts scientists from around the world. The collaborative work that it fosters is at the heart of many of the most important discoveries that have been made about the universe over the past several decades.

As discussed in Part 1 of this Master Plan, Maunakea is not solely a unique astronomical resource; it is a special natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ‘ike Hawai‘i (traditional knowledge), climate, and so much more. This Master Plan envisions proposals that expand scientific inquiry on Maunakea beyond astronomy. Future educational opportunities are still to be developed, but UH has heard from researchers in numerous fields that believe study within the MKSR will be informative and fruitful, and provide insights in other fields. It will be a place for integrating multiple disciplines and addressing diverse topics.

For the first several decades of its management of Maunakea, UH’s charge from the legislature and executive branch led it to prioritize astronomy-related goals. Since then, UH has been increasingly responsive to changing community and governmental priorities that place a much greater emphasis on the stewardship, conservation, and study of Maunakea’s cultural landscape
and natural resources. Stewardship, conservation, and non-astronomy education goals have not required the establishment of new facilities or developments to date; therefore, nearly all the vertical facilities in the MKSR in 2021 are related to astronomy. Table 4-1 and Figure 4-1 summarize the existing astronomy sites and facilities within the MKSR.

“Astronomy Sites” are the specific locations, typically defined by sublease areas, where astronomy facilities have been or may be developed. The astronomy sites are numbered generally clockwise from Astronomy Site 1 (Subaru) to Astronomy Site 13 (TMT); Astronomy Site 14 (VLBA) is removed from the others on the southern slope of Maunakea (Figure 4-1). The astronomy site boundaries are based on the following:

- For astronomy sites that have, or had, subleases, the boundary is the sublease metes and bounds.20
- For astronomy sites that never had a sublease (the two astronomy facilities, Site 7 (UH 2.2m) and Site 9 (Hōkū Ke‘a), always owned by UH), the boundary was established based on the extent of the existing facilities, disturbed areas, their relationship/proximity to adjacent uses, and topography.

Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve

<table>
<thead>
<tr>
<th>Astronomy Site #</th>
<th>Facility Name</th>
<th>CDUP Number &amp; Year Approved</th>
<th>Year of First Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subaru</td>
<td>HA-2462, approved in 1992</td>
<td>1999</td>
</tr>
<tr>
<td>2</td>
<td>Keck I</td>
<td>HA-1646, approved in 1984</td>
<td>1990</td>
</tr>
<tr>
<td>3</td>
<td>Keck II</td>
<td>HA-2509, approved in 1992</td>
<td>1996</td>
</tr>
<tr>
<td>4</td>
<td>IRTF</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>5</td>
<td>CFHT</td>
<td>HA-527, approved in 1974</td>
<td>1979</td>
</tr>
<tr>
<td>6</td>
<td>Planetary Patrol</td>
<td>HA-954, approved in 1977</td>
<td>1968</td>
</tr>
<tr>
<td></td>
<td>Gemini</td>
<td>HA-2691, approved in 1994</td>
<td>2000</td>
</tr>
<tr>
<td>7</td>
<td>UH 2.2m</td>
<td>HA-954, approved in 1977</td>
<td>1970</td>
</tr>
<tr>
<td>8</td>
<td>UKIRT</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>9</td>
<td>Air Force</td>
<td>HA-954, approved in 1977</td>
<td>1968</td>
</tr>
<tr>
<td></td>
<td>Hōkū Ke‘a</td>
<td>HA-3406, approved in 2007</td>
<td>NA</td>
</tr>
<tr>
<td>10</td>
<td>CSO</td>
<td>HA-1492, approved in 1982</td>
<td>1986</td>
</tr>
<tr>
<td>11</td>
<td>JCMT</td>
<td>HA-1515, approved in 1983</td>
<td>1987</td>
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<td>12</td>
<td>SMA</td>
<td>HA-2728, approved in 1994</td>
<td>2002</td>
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<tr>
<td>13</td>
<td>TMT</td>
<td>HA-3568, approved in 2017</td>
<td>NA</td>
</tr>
<tr>
<td>14</td>
<td>VLBA</td>
<td>HA-2174, approved in 1989</td>
<td>1992</td>
</tr>
</tbody>
</table>

Source: UH and DLNR

19 Vertical facilities are those that rise substantially higher than the natural ground surface and include all buildings, but do not include roads and utilities.

20 The extents of Astronomy Sites 2 and 3 (Keck I and Keck II) are based on dividing the single Keck sublease area into two sites based on drawings including in CDUP applications for the two facilities (HA-1646 and HA-2509).

21 Astronomy facilities developed prior to 1971 were permitted post facto by CDUP HA-954. As outlined in the DLNR’s staff report for that CDUP (DLNR, 1977), participants in the MKSR master lease (e.g., UH) likely did not seek additional approvals when the pre-1971 facilities were built because they assumed that the lease and purposes of the MKSR permitted the construction of observatories. The report states, “It is felt that the failure to obtain the approval of the Board for the use of State-owned conservation lands may well be based on assumption rather than outright omission.”
Respect native Hawaiian voices and do not build TMT.

The TMT should not be developed at all. A strong case against it has been made by kānaka maoli and conservationists, who have demonstrated how it will disrupt both critical Palila habitat and kānaka connection to sacred land. Above all else, Hawai‘i is Kānaka maoli land, and as guests on this land, we must respect their wishes, and they clearly oppose development of the TMT. To go against these demands and develop the TMT anyways would be continuing a harmful and unethical tradition of settler colonialism that needs to stop now. The kia‘i have fiercely defended Mauna Kea from settler colonialist development for years, and it is long overdue that we honor these efforts by halting all plans to construct the TMT.
Figure 4-1: Mauna Kea Science Reserve Astronomy Sites

Source: PSI
Why is the TMT shown on this map? It is not here and the community does not want it. Showing it on the map suggests it will be built.

TMT is located on the pristine northern plateau. It is NOT okay to continue with plans to build this telescope. How many times have we said no? You must take into account the cultural and environmental impacts of this construction and your public trust duty. What will be left of our land-base? These are Crown Lands, made inalienable in 1865. See pages 5-6: "The degradation principle renders inconsequential the failure of the State to meet its constitutional duty to protect natural and cultural resources for future generations. It renders illusory the public trust duty enshrined in the Constitution of the State of Hawai`i and heretofore in the decisions of this court to protect such resources. And its policy of condoning continued destruction of natural resources once the resource value has been substantially adversely impacted is contrary to accepted norms of the environmental rule of law.


You aren't listening. This feels really redundant at this point. This draft for the UH master plan is extremely misguided if TMT and continued use of Mauna Kea for astronomy is any part of it. Clearly, you aren't listening to Native Hawaiians who have contested every telescope that has been built without our consent. This is an extremely emotionally taxing effort to ask for our opinion and then ignore it over and over again.
4.1.2 UH COMMITMENTS

UH’s vision and goals recognize that astronomy on Maunakea can only continue to the extent that it is sensitive to and respectful of Maunakea’s cultural landscape and natural resources, and (ii) it contributes to the area’s stewardship, preservation, and utilization by others. Accordingly, UH has committed to reducing the number of operating astronomy facilities. Although a reduction in the number of astronomy facilities may adversely affect UH’s astronomy program and the MKOs in the short-term, UH believes it is likely to contribute substantially to the achievement of non-astronomy goals and objectives while also allowing the State and its residents to continue to reap the substantial scientific, cultural, and economic benefits that astronomy facilities in the MKSR provide.

This Master Plan reflects UH’s specific commitments, which include:

- Decommissioning the astronomy facilities on the following astronomy sites in accordance with approved site-specific Site Decommissioning Plans, and abstaining from any future reuse of the sites for astronomy:
  - Astronomy Site 9 (Hōkū Ke’a), already started with significant progress;
  - Astronomy Site 10 (Caltech Submillimeter Observatory), already started with significant progress;
  - Astronomy Site 14 (Very Long Baseline Array) prior to December 31, 2033; and
  - Two additional sites within the MKSR before the December 31, 2033.

- Ensuring that Astronomy Site 13 will be the last new site developed for an astronomy use in the MKSR.

By December 31, 2033, and throughout the remainder of the time covered by this plan, there will be not more than nine (9) operating astronomy facilities in the MKSR. This will be achieved by adhering to the commitments listed above. Which astronomy sites and facilities continue beyond 2033 and which are decommissioned will be established via the process outlined in Appendix D. These commitments will also support UH’s compliance with existing permits and governmental approvals. Astronomy uses, including continued operation, modification, and recycling described in Section 4.3, will continue on Astronomy Sites not decommissioned.22

UH believes that the scheduled reduction in astronomy facilities between now and 2033 will make an important contribution towards achieving the goals stated in Part 1 of this Master Plan. If realized, it will allow a sufficient number of astronomy facilities to remain on Maunakea to maintain its and Hawai’i’s position as a world center of astronomical research. At the same time, it provides space, facilities, and encouragement for non-astronomical research, education, and other activities that will foster the responsible stewardship and sustainable use of Maunakea and a balance among those seeking their place on the mountain.

22 As described in Section 3.3.4.3, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy in the event that one of those sites is decommissioned and the other is selected for recycling.
Please explain how this reduction serves the stated goals, and why they cannot be satisfied better via other mechanisms.

These activities seem to be just set up for a facade of caring for the Mauna.

Space, facilities and encouragement are already available without reduction.

The TMT should not be developed at all. A robust case has been made against it by kānaka maoli and conservationists, who have brought up concerns that the telescope will disrupt critical Palila habitat and indigenous connections to sacred land. Above all else, Hawai'i is Kānaka land, and as guests on this land, we must respect their wishes. Otherwise, we risk continuing a harmful and unethical tradition of settler colonialism. The kia'i have fiercely protected Mauna Kea from settler colonialist development for years, and it is time that we honor these efforts by halting plans to build the TMT on Mauna Kea.

I do not think the plan should make commitments to limit new sites and capacities. The human race may need new astronomical observations, locations of asteroids to mine, alien transmitter capacity, anything could be possible in a time of dramatic climate change and environmental shifts.
Limiting to nine sites might be too much of a reduction to fulfill the goals of scientific research and education.

#044

Is there a public oversight committee on this?

#045

This again is UH's opinion and not the option of the Native Hawaiian public. These standards need to be reevaluated.
4.2 MANAGEMENT & STEWARDSHIP-RELATED FACILITIES & PROJECTS

This section is divided into two parts. The first addresses facilities and projects related to UH’s management and stewardship responsibilities. The second part describes facilities and projects intended to support and facilitate public activities.

4.2.1 ADDRESSING STEWARDSHIP MEASURES IN THE CMP

The CMP specifically calls for several stewardship measures that involve facilities and actions typically governed by DLNR’s Conservation District Rules. These management actions and projects may entail the construction of minor facilities and land modifications within the MKSR. They may include, but are not limited to, the following:

- Producing and outplanting native species, which is called for by CMP Management Actions NR-3 and NR-9. The focus of these management actions is Halepōhaku because producing and outplanting is unlikely to occur in the MKSR’s alpine ecosystem.\(^{23}\)
- Fencing areas of high native biodiversity or populations of endangered species, which is called for by CMP Management Action NR-8. Fencing is unlikely to occur within the MKSR given the fencing of Maunakea at lower elevations by DLNR and the conditions within the alpine ecosystems.\(^{23}\)
- Conducting habitat rehabilitation or restoration projects, which is called for by CMP Management Action NR-12. Rehabilitation or restoration projects may occur where the land was previously disturbed (e.g., the Pu‘upoli‘ahu access trail) or land is accidentally disturbed in the future. The likelihood of implementing such projects may increase if such projects, including astronomy site restoration efforts, prove to be successful.

Such stewardship measures will be undertaken where they are biologically appropriate; biological conditions inherently required for them will dictate the range of options available. When selecting a site, consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, visual resources, and proposal-specific concerns.

4.2.2 FACILITATING PUBLIC ACTIVITIES

Given the expected continued growth in demand for experiences on Maunakea, UH believes that public facilities such as restrooms, shelters, signs, designated parking areas, and trails aimed at non-astronomical visitors to the summit area will be necessary to manage activities in a way that minimizes their potential adverse effect on the cultural landscape, protects natural resources, and improves safety. Storage spaces and ranger offices needed to aid in facilitating public activities may be incorporated into the public facilities or will utilize existing space in astronomy facilities.

The public facilities considered in this section will be sited, designed, and sized in a manner that is consistent with UH’s commitment to manage access to Maunakea. UH intends to manage the

\(^{23}\) This bullet point is included in this section to ensure that it is provided for should conditions and priorities change over the 20-year plan period (e.g., climate change has been shown to affect the elevation at which particular species are successful).
In previous EIS's, UH and the public were informed that there would in fact be adverse impacts to the areas that the telescope would be on/around. That alone should just halt the project. If it is proven that there would be any form desecration of sacred land you don't continue a project like that. If compensation for construction has to take place (ie. producing and planting more native species for the area) then that should be an indicator that the project should not continue. We should simply be taking these positive measures by themselves, not utilizing them as a means of throwing people a bone to keep them settled and quiet. Land stewardship is something that should take place with leadership from those who are native or indigenous to the land. And the natives of this land have spoken out about how they wish the land to be taken care of. This project continues to dismiss them and undermine them.

I feel that Maunakea belongs to all the people and not just a select few and their ideas. We must work together to allow the use of the mountain to benefit all. I feel that the building of the telescope will benefit everyone in gaining knowledge of the stars and universe around us.

So you're covering your bases and choosing to not focus on actually protecting the native habitat. I know that the UH chose to focus on astronomy but as the LEGAL caretakers of Mauna Kea, the actual restoration and protection is a necessary and essential requirement of your job. You cannot just pick and choose what you want to be a part of because it makes you money. You need to protect Mauna Kea or hand over the stewardship and land leases to another entity.
Agree: 0, Disagree: 0
There needs to be more information about the increased activities on Mauna Kea regarding the public. Instead of spending money on creating more facilities on the Mauna, UH needs to be encouraging less tourism and more access for Native Hawaiians.
number of vehicles (Section 5.3), and thereby people, ascending above Halepōhaku in a manner that preserves the ambiance and feeling of the cultural landscape and minimizes adverse effects on the alpine ecosystem and other resources. Therefore, the facilities and projects discussed in this section will be sited and designed to accommodate fewer people than were present in the recent, pre-pandemic, past. More specifically, they will be sized to accommodate only the number of vehicles and visitors expected with active access management as described elsewhere in this plan (Section 5.3) and designed to provide a safe and rewarding experience for those who do enter.

Proposed facilities will be confirmed to be scientifically, culturally, and site-appropriate through the UH project review process described in Part 3 of this Master Plan. Consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, and visual resources. When possible, proposed facilities will be co-located and programmed for for multiple purposes with other existing or proposed facilities to minimize impacts and encourage beneficial relationships among all those visiting the UH Maunakea Lands. Facilities will be preferentially sited in locations that have been previously disturbed, unless the proposal requires undisturbed lands or where essential for safety or other considerations, in which case these facilities may be sited in undisturbed areas.

The facilities that UH has already determined it may consider within the MKSR over the term of this Master Plan are described in the following sub-sections. However, other uses may be proposed by UH or other parties as well, and their absence from this Master Plan does not exclude them from consideration under the framework laid out under this Master Plan.

### 4.2.2.1 Restrooms and Shelters

The portable toilets that are now located within the summit area provide a great improvement over the “no public toilet” situation that existed for many years in the MKSR. Despite the presence of these portable toilets, rangers and/or astronomy facility personnel are still regularly called upon to clean up human waste. This continuing burden is due to: (i) undesignated public parking areas within the MKSR, (ii) the type and limited number of toilets provided, (iii) the fact that visitors are not always aware the facilities exist, and (iv) the facilities’ excessive distance from some locations where visitors congregate.

To mitigate this issue, UH will designate public parking areas as provided for in the UH Maunakea Rules (HAR Chapter 20-26) and maintain, reposition, and increase the number of portable toilets in the MKSR until improved permanent facilities can be developed. The repositioning of existing and future portable toilets may be necessary during construction and decommissioning projects. Once improved permanent restrooms are available, nearby portable toilets will be removed.

UH will investigate the extent to which it may be able to provide permanent public restrooms and shelters that can serve the MKSR. Stakeholders, including BLNR, have identified the need for shelter, particularly shelter that would be helpful to cultural practitioners, the public, and the rangers. Shelters to provide a place where cultural practitioners and others could assemble and rangers could store safety equipment and have office space will be considered.
#051

Posted by Helaakaiminaauao on 09/12/2021 at 1:03pm [Comment ID: 26]
Agree: 0, Disagree: 0
Access to clean and available toilets is very important for the health and safety of everyone who visits Mauna Kea

#052

Posted by James A. Monk on 09/21/2021 at 8:39pm [Comment ID: 69]
Type: Typo
Agree: 0, Disagree: 0
remove second "for"

#053

Posted by CP on 10/26/2021 at 9:49pm [Comment ID: 537]
Type: Suggestion
Agree: 0, Disagree: 0
simple shelters for cultural practitioners yes. everything else can be done from the lower area that with VIS.

#054

Posted by CP on 10/26/2021 at 9:47pm [Comment ID: 535]
Type: Suggestion
Agree: 0, Disagree: 0
This shouldn't be an option. It appears as though with decommissioning and re-purposing we should have stronger language about not needing to enter new undisturbed land. Commit to it.

#055

Posted by CP on 10/26/2021 at 9:48pm [Comment ID: 536]
Type: Suggestion
Agree: 0, Disagree: 0
yes. lowest impact toilet option possible though.

#056

Posted by Rodrigo FV Romo on 10/04/2021 at 2:28pm [Comment ID: 93]
Type: Suggestion
Agree: 0, Disagree: 0
This issue of visitors not knowing where the facilities are can be addressed and mitigated through the controlled gated access to the summit. At the gate, the ranger in charge can provide an information brochure indicating where services are. A similar
scenario as what takes place at Volcano National Park.

Reply by Rodrigo FV Romo on 10/04/2021 at 2:30pm [Comment ID: 94]
Agree: 0, Disagree: 0

An alternative to this is if shuttles are used to transport people to the summit rather than their private vehicles, the shuttle drivers can inform the passengers of the location of service facilities as they drive by them,

#057

Posted by Lehuakona on 10/25/2021 at 9:26pm [Comment ID: 368]
Agree: 0, Disagree: 0

With proper facility construction, multiple viewing and educational sites, and especially shuttle bus transportation, more people than previously could be managed well, providing greater opportunities for cultural and scientific education and employment.
Siting considerations for these facilities include:

- Proximity to where people, including the public and cultural practitioners, presently or will in the future congregate, such as near designated public parking areas, shuttle stops, popular sunset viewing areas, and trailheads.
- Preference for areas that:
  - Have been previously disturbed, including the adaptive reuse of decommissioned or recycled astronomy sites and facilities. Astronomy sites where it may be more likely to consider this include Astronomy Sites 7 (UH 2.2), 8 (UKIRT), 9 (Hōkū Keʻa), and 14 (VLBA), should they be decommissioned. Such adaptive reuse would not be contemplated at more than two astronomy sites on the summit ridge (sites 1 through 9) and one of the other sites (sites 10 through 14).
  - Are next to or near existing improvements, including astronomy facilities.  
  - Minimize visual impacts.
  - Provide a buffer from areas with high native species diversity, unique biological communities, unique geological features, or sensitive cultural sites.
- Ease of access by maintenance vehicles and personnel.
- Proximity to existing utility lines if utility connections are required.
- Provide a buffer, established in consultation with SHPD, from archaeology sites (Figure 4-2).

### 4.2.2.2 Public Parking

HAR § 20-26-28 provides that parking a motorized vehicle outside designated parking is prohibited. Currently there are three public parking areas along the Mauna Kea Access Road, which are listed below; there are no officially designated public parking areas along the road that serves the summit ridge.

- Parking Area 1 with 12 stalls at roughly 11,860 feet elevation.
- Parking Area 2 with 22 stalls at roughly 12,815 feet elevation.
- Parking Area 3 (aka the Batch Plant Parking Area) which is permitted for six stalls at roughly 13,250 feet elevation.

The siting, design, and size considerations listed in Section 4.2.2.1 also apply to new public parking.

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24 Facilities could be attached to existing UH-owned astronomy facilities, but placement of public facilities on astronomy sites subleased to other entities would require modification of agreements. Public facilities would need to avoid or minimize impacts to astronomy facility operations and safety hazards related to falling ice and other hazards.
#058

Posted by sam nelson on 10/24/2021 at 5:22pm [Comment ID: 264]
Type: Suggestion
Agree: 0, Disagree: 0
I suggest adding more parking areas
Figure 4-2: Archaeology Sites in the UH Maunakea Lands

Source: PCSI.
This is so clear why there should be no site 13. No TMT.
UH has identified and is continuing to evaluate public parking needs and the potential need for improvements. The parking area improvement projects that it believes are most likely to be pursued include, but are not limited to, those shown on Figure 4-3. They include: (i) designating and improving areas in the summit region for visitor and commercial tour parking; (ii) installing informational and regulatory signs; and (iii) placing safety devices (e.g., barriers preventing runaway vehicles and off-road driving) in those areas currently used for parking on an ad hoc basis. As depicted in Figure 4-3, these public parking areas are situated on portions of Astronomy Site 7 (UH 2.2), Site 8 (UKIRT), and Site 9 (Hōkū Keʻa). Because members of the public and commercial tour operators have been parking their vehicles and viewing the sunset or conducting other activities from these areas for many years, this amounts to a continuation of present use. However, the Astronomy Site decommissioning that is scheduled, the planned establishment of a shuttle service, and the preparation of this Master Plan provide an opportunity to formalize and improve on what has until now been an ad hoc practice. Other areas will be considered and may also be designated and improved following consultation with stakeholders.

### 4.2.2.3 Signs

UH will install and maintain all signs within the MKSR in accordance with the *Maunakea Sign Plan* (Office of Maunakea Management (OMKM), February 2017), which was prepared to address CMP management action EO-4. These will include educational, safety, and interpretive signs. In addition to making users aware of safety and conservation issues, the signs will identify unique geologic features and inform them of the best ways to conserve them. The plan provides policy concerning sign standards, types, design, siting, approval, and maintenance.

The types of stand-alone signs that may be installed in the MKSR include signs related to traffic control and the location of designated public parking areas, temporary traffic control warnings, and visitor information. The latter category includes such things as interpretive and wayside exhibits (e.g., historic site interpretation, exhibits regarding geologic features), trailhead signs, and signs related to resource protection (e.g., outline protection afforded to historic sites). Signs complying with the Maunakea Sign Plan may also be installed as components of other approved land uses. In addition to compliance with the sign plan, signs may be bilingual and utilize iconography, when appropriate.

Signs will be placed only where they are biologically and culturally appropriate, where necessary for safety purposes, and/or where people can or do congregate to appreciate the landscape and resources in the area. During site selection, consideration will be given to potential adverse impacts, including impacts to the cultural landscape and natural resources. The proximity of utilities will also be considered in the unlikely event signs require utility connections. Signs will preferentially be sited in locations that have been previously disturbed and collocated with restrooms, shelters, public parking, and trailheads. Where appropriate for safety or other considerations, these minor facilities can be sited in undisturbed areas.25

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25 Undisturbed areas are those areas outside of the astronomy sites that have not been visually affected by human activity. All areas within the astronomy sites, including decommissioned and restored astronomy sites, are considered disturbed.
Signs can be helpful. Directions. Restrooms. Yes. Reminders on being respectful. But it's cold up there. Don't invest time and money marking up the landscape on signs that will not be read because of logistics like temperature and daylight.

One of the stated purposes in this report of expanding astronomy-related infrastructure on Mauna Kea is to move away from economic dependence on tourism. Yet here, UH suggests expanding tourism infrastructure (see also, shuttle service in Section 5.3.2) on the Mauna.

The word should be changed to "Signage" or "Signs"
Figure 4-3: Potential Parking Project Locations in Summit Region

Source: PSI
4.2.2.4 Trails

The great majority of the trails on Maunakea are outside the MKSR on land that is either within the neighboring Mauna Kea Ice Age Reserve NAR or within the Mauna Kea Forest Reserve. These areas are managed by and under the jurisdiction of DLNR. Nevertheless, hiking is a relatively common recreational activity in the MKSR; it is concentrated on the few better-known trails in the MKSR. Hiking near the summit of Maunakea is challenging and potentially hazardous for two main reasons.

• First, because the amount of oxygen in the air is only about 65 percent of what it is at sea level, individuals must breathe faster to compensate for the oxygen shortfall, and the heart must beat faster too.

• Second, the temperature, wind, snowfall, and ice in the summit region can be dangerous for those who are caught outside without the proper clothing because it leads to hypothermia, which can be life-threatening.

For health and safety reasons, hiking in areas that are not visible to rangers and first responders is not advisable. For this reason, UH does not advocate the establishment of any new public trails within the MKSR. Instead, UH will continue to consult with DLNR regarding the establishment of trails at lower elevations on NAR or Forest Reserve land and will make areas under UH jurisdiction needed to support or complement such trails available for trail purposes as requested.

Notwithstanding its desire to minimize the amount of hiking across the high-elevation lands within the MKSR, UH recognizes that hiking on some routes is so well established that it will continue and be made consistent with HAR Chapter 20-26 to avoid conflict. The trail to the summit of Maunakea from Astronomy Site 9 (Hōkū Ke‘a) will be considered for improvement. Accessing the highest point in the Pacific will continue to lure visitors, and some cultural practitioners also access the summit. It is a short trail, and people are always visible to the rangers and other first responders on the road provided they remain on the trail. The adverse impacts associated with trail use are related to erosion, trail widening, trail realignment, and wandering off the trail. To reduce erosion and more clearly delineate the trail, UH will consider hardening the trail. The most appropriate techniques and materials to carry out this concept will be informed by working with Native Hawaiians that have ties to the Ka‘ohe Ahupua‘a.

In addition to the work described above for the summit trail, UH will continue to maintain the road access and parking needed by users of the two trails that lead from the Mauna Kea Access Road to Lake Waiau, in consultation with DLNR to remain consistent with DLNR’s management efforts within the NAR.

EDUCATION, RESEARCH, AND ASTRONOMY FACILITIES

This section addresses facilities and projects related to education, research, and astronomy facilities within the MKSR. As discussed in Part 1, astronomy has been the driving force behind UH’s involvement with Maunakea, and UH anticipates that this will continue to be the case. In addition to astronomy, UH is focused on diversifying the education and research opportunities on Maunakea. As stated at the beginning of this chapter, UH is also committed to retaining the wilderness characteristics of the MKSR. The MKSR is a natural laboratory and learning space;
#063

Posted by CP on 10/26/2021 at 9:54pm [Comment ID: 539]
Type: Suggestion
Agree: 0, Disagree: 0

yes

#064

Posted by Sylvia Dahlby on 09/19/2021 at 3:23pm [Comment ID: 65]
Agree: 0, Disagree: 0

Whatever rules, regulations and environmental protections are applied to activities on the Mauna such as hunting, gathering, recreation and traditional and customary practices in the Comprehensive Management Plan MUST be applied equally to all people. We cannot have one set of rules for visitors vs residents, one group religious or cultural practitioners over another. Everyone must be treated equally under the law; and the law must be enforced equally.

#065

Posted by James A. Monk on 09/24/2021 at 8:29pm [Comment ID: 75]
Type: Suggestion
Agree: 0, Disagree: 0

I doubt seriously the Native Hawaiians who have obstructed progress know anything about building techniques for trails and the appropriate materials to be used. This sentence needs to be changed to reflect that you will consult with the Native Hawaiians about the location and direction of the trail only.

#066

Posted by anonymous on 10/26/2021 at 9:27am [Comment ID: 419]
Agree: 0, Disagree: 0

This is prioritizing education on astronomy instead of the cultural significance of the Mauna. Many voices have said that we want less facilities on the Mauna. It is good that classrooms and support facilities will not be established on the Mauna but there is this underlying tone where astronomy still gets to always be the exception. We do not consent to it being the rule or the exception.
Halepōhaku is the classroom and support facility. Most research within the MKSR will not require large instruments or structures; astronomy is the exception, not the rule.

In this section, we first discuss facilities and developments associated with non-astronomy education and research (Section 4.3.1), then we focus on astronomy sites and facilities.

### 4.3.1 DIVERSE EDUCATION AND RESEARCH FACILITIES AND DEVELOPMENTS

As with astronomy, which has always sought to keep its facilities within the MKSR compact and used Halepōhaku and headquarters facilities in Hilo and Waimea to support astronomy facility operations, other education and research pursuits will also restrict their footprint within the MKSR. For instance, classrooms and meeting rooms will not be built within the MKSR, the facilities at Halepōhaku, UH Hilo, and elsewhere will provide those functions.

Researchers occasionally propose data gathering efforts in the MKSR that involve equipment and facilities occurring on the landscape for a period of time. Maunakea’s unusual resources, including its elevation, location, and access, provide unique research and data gathering opportunities. Proposals can be expected from UH staff, students, and/or researchers from other institutions and they would be funded by those proposing them (some of which may receive grants from CMS). UH will carefully consider data gathering proposals and only permit those that require Maunakea’s unusual assets to proceed within the UH Maunakea Lands, consistent with the UH Maunakea Rules.

Some data-gathering programs do not constitute land uses (as the term is used in this Master Plan) because they do not involve the alteration of the land or the erection of solid material that remains for more than 30 days. Similarly, activities such as archaeological research, arthropod monitoring, and geologic mapping do not constitute land uses. Examples of data gathering efforts that may qualify as land uses include the installation and long-term operation and maintenance of such things as ground level and subterranean condition (e.g., temperature, moisture, etc.), snow-depth monitoring stations, seismometers, geodetic monitoring stations, song meters, and air quality monitoring stations.

Data gathering land uses would be sited as necessary to support the research goals of individual programs. Achieving those goals may require measurements at different elevations, data from various sides of Maunakea, or the collection of information from locations similar to other locations around the world where the same sorts of data are being gathered. UH will evaluate siting alternatives to ensure that data gathering activities, facilities, and equipment avoid and/or minimize potential impacts by, for example:

- Considering previously disturbed areas, including active and decommissioned astronomy sites, when program research goals do not require undisturbed areas.
- Siting equipment outside of buffers established in consultation with SHPD around archaeology sites (Figure 4-2).
- Considering visual impacts.

Actual site selection criteria will be proposal-specific, based on type and longevity of use, and other factors. They will be established via the appropriate proposal review process (see Part 3).
This sentence makes no sense yet. It needs additional words such as "... conditions monitoring devices" -- two new words added to specify what is being installed.
A proposed data gathering use will not be approved if it cannot avoid and/or minimize impacts to the extent deemed appropriate by UH and DLNR.

### 3.2 ASTRONOMY DECOMMISSIONINGS

This Master Plan calls for there to be no more than nine (9) astronomy sites with operational astronomy facilities in the MKSR by the end of 2033 (Section 4.1.2). This section outlines the process by which UH will accomplish this commitment.

#### 4.3.2.1 Ongoing Decommissioning of Two Astronomy Sites

As summarized below, the sponsors of the CSO (Astronomy Site 10) and Hōkū Keʻa (Astronomy Site 9) have each already submitted a decommissioning Notice of Intent (NOI), MKMB and DLNR have approved their NOIs, and they are fully engaged in the decommissioning process laid out in the CMP. They have also both issued Draft Environmental Assessments detailing their proposed decommissioning efforts and associated impacts (Caltech 2021, UH Hilo 2021). The decommissioning of these two facilities partially fulfills CDUP HA-3568 Special Condition #10, which states “The University will decommission three telescopes permanently, as soon as reasonably possible.”

UH has decided that these two sites will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of Astronomy Site 9 may be considered during or after the decommissioning process.

#### 4.3.2.2 Upcoming Decommissioning of Three Astronomy Sites

Which astronomy facilities and sites will continue beyond 2033 and which shall be decommissioned will be established via the process outlined in Appendix D. It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033. Two additional facilities will not be selected for continued operation via the process outlined in Appendix D. The two facilities are expected to be identified by the end of 2025, allowing seven years for them to completely decommission prior to the end of 2033.

UH has decided that the three sites once occupied by these three decommissioned astronomy facilities will not be available for future astronomy use, including recycling. However, as discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of decommissioned astronomy site may be considered during or after the decommissioning process. In addition, as described in Section 4.3.4.3 and shown in Figure 4-4, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy in the event that one of those sites is decommissioned and the other is recycled.

#### 4.3.3 CONTINUED OPERATION, MODIFYING, AND/OR RECYCLING ASTRONOMY SITES AND FACILITIES

##### 4.3.3.1 Continued Operation of Existing Facilities

Over the 20-year period of this Master Plan most astronomy facilities not decommissioned will likely continue to operate in their current general configuration. Internal alterations (e.g., installing new instrumentation, replacing mechanical and electronic equipment, etc.) are likely to be made
#068

Posted by **kimberly nichols** on **09/23/2021 at 3:19pm** [Comment ID: 73]

Type: Suggestion

Agree: 0, Disagree: 0

"As soon as reasonably possible"? Decommissioning and removal should be completed before discussion of new build begins.

#069

Posted by **Lehuakona** on **10/25/2021 at 9:32pm** [Comment ID: 370]

Type: Suggestion

Agree: 0, Disagree: 0

As stated before, it is unwise to make final decisions on the sites. Future conditions and forces could vary greatly from what is foreseen today.

#070

Posted by **anonymous** on **10/26/2021 at 9:29am** [Comment ID: 420]

Agree: 0, Disagree: 0

The NSF have said that UH did not even consult them when deciding which telescopes to decommission. How do we know that these decommissioning promises will be held up? The communication between the partners seems thin and ripe for friction and changing of plans.
in virtually all of these at the discretion of the facility owner and operator. Work needed to maintain the exterior of the facilities (e.g., resurfacing the dome or parking areas) and minor alterations that affect the exterior of the facility may also occur. External maintenance and alteration projects will need to follow the project review process described in Part 3 of this Master Plan. Examples of possible alterations may include such things as the attachment of equipment such as cameras, weather equipment, or adaptive optics equipment to the exterior of a dome to aid observing or attaching photovoltaic (PV) panels to the roof of support buildings.26

4.3.3.2 Potential Modification and Recycling Projects

As used in this Master Plan:

- “Modification” of an astronomy facility entails changes to an existing facility that are made in order to modernize or improve its capabilities that go beyond the alterations discussed in Section 4.3.3.1. Examples of possible modifications include enlarging or reconfiguring a dome to accommodate a larger telescope or the constructing additional building space to accommodate more equipment or support infrastructure.

- “Recycling” an astronomy site involves the complete removal of an existing astronomy facility and the construction of a new astronomy facility in its place. Recycling is consistent with preserving nine operating astronomy facilities at any one time and keeping facilities on existing, previously disturbed sites.

Modification and/or recycling will be considered only at sites not decommissioned per the commitments outlined in Sections 4.1.2 and 4.3.2. Other than the possible adjustment to Astronomy Site 7 and Astronomy Site 8 boundaries outlined in Section 4.3.4.3 (which would result in a site roughly equivalent in size to the average of the two), modification and recycling projects will not involve a change in the size or boundaries of the astronomy sites.

UH’s assessment of the likelihood that facilities at each of the astronomy sites will be modified or recycled over the life of this plan is summarized in Table 4-2. As indicated in Table 4-2, the only presently known potential modification or recycling project in the MKSR is the modifications to CFHT (Astronomy Site 5) that is under discussion to accommodate the Maunakea Spectroscopic Explorer (MSE) project. If implemented, the MSE project, which has not yet been evaluated or approved by UH, would transform the CFHT 3.6-meter telescope into a 10-meter class dedicated multi-object spectroscopic facility with an ability to simultaneously observe more than four thousand objects. It is not yet known if the MSE project will be officially proposed to UH. If it is, it most likely be considered a modification project because, as envisioned now, it would retain the existing CFHT foundation and base structure.

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26 PV panels have been added to the Keck and Gemini support buildings. Other astronomy facility operators are also likely to add them to support buildings in the coming years.
#071

Posted by David Manu`a Heaukulani on 10/06/2021 at 11:07am [Comment ID: 106]

Type: Suggestion
Agree: 0, Disagree: 0

I am speaking on behalf of the Aloha ʻĀina Bureau of HULI Corporation, a non-profit social welfare non-governmental organization. We question section 4.3.3.2 Potential Modification and Recycling Projects. This appears to allow any astronomy facility to implement construction such as modifications to accommodate a larger telescope. We oppose any further construction on Mauna Kea. We suggest that you disallow any modifications or recycling projects to any existing astronomy facility.

#072

Posted by James A. Monk on 09/24/2021 at 8:39pm [Comment ID: 77]

Type: Typo
Agree: 0, Disagree: 0

Remove the word "the" which is superfluous here.
### Table 4-2: Probability of Modification or Recycling by Astronomy Site

<table>
<thead>
<tr>
<th>Astronomy Site (acres)</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 1: Subaru (5.36)</td>
<td>Highly unlikely</td>
<td>Japan sets funding of the facility in 10-year increments and does not show any signs of shifting priorities away from Subaru, its principal astronomy asset. Subaru is likely to complement the MSE project, which will add to its long-term utility if the MSE project becomes a reality.</td>
</tr>
<tr>
<td>Sites 2 and 3: Keck I &amp; II (1.48 &amp; 1.97)</td>
<td>Highly unlikely</td>
<td>Keck is the single most impactful astronomy facility in the world. Investments in instrumentation and interferometry by Keck will enable it to continue its leadership.</td>
</tr>
<tr>
<td>Site 4: IRTF (1.62)</td>
<td>Slight</td>
<td>The IRTF provides critical support for NASA’s exploration of the Solar System. There is no evidence that NASA’s priorities will change in a way that would substantially reduce the need for IRTF. However, this astronomy site is one of the few that hosts a relatively small telescope (4-meter class) and is of sufficient area and remoteness from other facilities that it could be recycled with a larger facility (10-meter class, perhaps a facility similar to the Vera C. Rubin Observatory facility in Chile).</td>
</tr>
<tr>
<td>Site 5: CFHT (1.87)</td>
<td>Moderate</td>
<td>CFHT has been working on the MSE concept for a decade and continues to pursue partners to make that a reality; therefore, it has the highest probability of modification or recycling.</td>
</tr>
<tr>
<td>Site 6: Gemini North (1.96)</td>
<td>Highly unlikely</td>
<td>The AURA manages this facility in concert with the Gemini South facility in Chile. Continued investment by NSF and other Gemini partners is anticipated, as well as technology sharing among the two Gemini telescopes and other NSF-supported facilities.</td>
</tr>
<tr>
<td>Site 7: UH 2.2m (88&quot;) (1.94)</td>
<td>Moderate</td>
<td>UH considered this site for recycling when the Pan-STARRS project was being planned. The size and geometry of the site and its proximity to Gemini North and other resources mean that this site is unlikely to be recycled to host a facility substantially larger than the existing structure. See Section 4.3.4.3 regarding possible recycling once site boundary is altered.</td>
</tr>
<tr>
<td>Site 8: UKIRT (0.77)</td>
<td>Slight to moderate</td>
<td>UKIRT has been one of the most impactful facilities in recent years due to its wide-field camera and ability to engage in time-domain astronomy. As its efforts with the wide-field camera wind down over the next decade, the likelihood of modification or recycling may increase. The size of the site and proximity to other resources suggest that its recycling would not yield a facility substantially larger than the existing one. See Section 4.3.4.3 regarding possible recycling once the site boundary is altered.</td>
</tr>
<tr>
<td>Site 9: Hōkū Ke’a (0.53)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 10: CSO (0.74)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 11 – JCMT (2.91)</td>
<td>Highly unlikely</td>
<td>JCMT continues to be very impactful and is part of the Event Horizon Telescope, which is a long-baseline submillimeter interferometer. Maunakea will continue to play an important role in such efforts due to its latitude. However, it is unlikely that modification or recycling will occur due to the large and ongoing investment in submillimeter facilities in the southern hemisphere. Located in “submillimeter valley,” this site is not attractive for recycling to an optical or infrared facility.</td>
</tr>
<tr>
<td>Site 12 – SMA (2.82)</td>
<td>Highly unlikely</td>
<td>Factors discussed above related to JCMT apply to the SMA as well, and the Smithsonian has not indicated any change in priorities or funding.</td>
</tr>
</tbody>
</table>
#073

Posted by CP on 10/26/2021 at 10:03pm [Comment ID: 541]
Type: Suggestion
Agree: 0, Disagree: 0
There should be a total cap for height and footprint - not just saying 9 sites but also placing limits on the size and height - individually and/or collectively - or at least this should be an ongoing discussion point with cultural and environmental leaders working directly with designers/astronomers - all having equal power at the table- with tendency to lean towards the cultural leader when there is no consensus on compromise.

#074

Posted by Helaakaiminaauao on 09/12/2021 at 1:05pm [Comment ID: 27]
Agree: 0, Disagree: 0
amazing work from Subaru, Keck, JCMT. Continued excellence

#075

Posted by James Secritario on 10/26/2021 at 5:51am [Comment ID: 403]
Type: Suggestion
Agree: 0, Disagree: 0
The decommissioning/recycling of telescopes should focus on removing the infrastructures off of Maunakea, rather than increasing their size.
### Astronomical Sites and Facilities

<table>
<thead>
<tr>
<th>Astronomy Site (acres)</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 13 – TMT (6.00)</td>
<td>Extremely unlikely</td>
<td>The TMT has a CDUP to build on this site during the term of this Master Plan. If constructed, it will have an operating life of at least 50 years.</td>
</tr>
<tr>
<td>Site 14 – VLBA (2.01)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
</tbody>
</table>

Source: UH and the MKOs

Although the current MSE project concept involves the facility at Astronomy Site 5 (CFHT) becoming slightly taller (no change to building footprint at ground level), it is not a foregone conclusion that all modification or recycling projects will result in larger facilities. Instead, technological advances could result in larger aperture telescopes being developed on astronomy sites in ways that require minimal disturbance and result in minimal height and size increases, or even allow existing facilities to be replaced with smaller ones. Moreover, not all astronomical research requires large-aperture telescopes. There will always be demand for 2- and 4-meter class telescopes, and it is possible that an astronomy site that presently has a 2- or 4-meter class telescope could be modified or recycled with a similar size facility that takes advantage of the many technical advances that have occurred since the mid-1980s when telescopes of this size were last installed in the MKSR. Such recycling could substantially increase the scientific power of a site without increasing (and potentially decreasing) the footprint, bulk, and impacts of the facilities that are present.

### 4.3.4 Other Potential Astronomy-Related Projects

#### 4.3.4.1 Optical Hawaiian Array for Nanoradian Astronomy (OHANA) Project

The astronomy facilities on Maunakea are experimenting with the use of fiber optics for two different purposes:

- The first is to transmit the visible light or infrared radiation collected while observing a celestial object at one facility to another facility so that instruments in the other facility can analyze the radiation (the GRACES project).\(^{27}\)

- The second is to combine the light from up to seven existing telescopes, the so-called Optical Hawaiian Array for Nanoradian Astronomy (OHANA) project. The OHANA project would interconnect some or all the optical/IR facilities on Maunakea (Subaru, Keck, IRTF, CFHT, Gemini, UH2.2m, and UKIRT) to create an interferometer capable of providing ultra-high-resolution images of the near-infrared universe. The image that could be produced by the linked facilities would be up to 80 times sharper than the image from one of the 10-meter Keck telescopes. The OHANA project is challenging and if it moves forward, it will probably be implemented in phases and take decades to implement fully. However, this

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\(^{27}\) The ongoing Gemini Remote Access to CFHT ESPaDOnS Spectrograph (GRACES) project is the result of a cooperation between the Canada-France-Hawaii Telescope (CFHT), Gemini, and NRC-Herzberg (Canada). It combines the large collecting area of the Gemini North telescope with the high resolving power and high efficiency of the ESPaDOnS spectrograph at CFHT to deliver high resolution spectroscopy across the optical region.
do not use OHANA for this project name

TMT should be removed from the Master Plan. It does not have the support of the Hawaiian Community and the People of Hawaii. This counteract the purpose for this proposal.

TMT should be removed from the Master Plan. It does not have the support of the Hawaiian community and the people of Hawaii and counteracts the purpose of this proposal.

50 years is a dubious claim. This was Subaru's original plan, but they have consistently funneled funds to other projects, allowing Subaru to rely on other investors well before their halfway mark. Since Japan is a major investor, it is likely they will act in a similar manner in the future: investing their resources in the latest big project.

Construction has not started and it was supposed to by September of 2021 to remain valid. This construction permit is invalid.
Agree: 0, Disagree: 0
and take this "Hawaiian" out!

#082

Posted by Caitlin Cosmian on 10/23/2021 at 11:43pm [Comment ID: 257]
Type: Suggestion
Agree: 0, Disagree: 0
I am a resident of O'ahu, the fourth generation in my family to live here. I strongly oppose the construction of the TMT on Mauna Kea, and believe Kanaka Maoli kia'i should be in charge of decision making about land use on the Mauna.

#083

Posted by James Schwartz on 09/16/2021 at 8:46am [Comment ID: 57]
Agree: 1, Disagree: 0
When will the TMT begin construction?

#084

Posted by Gerald F Kalisik on 10/10/2021 at 4:49pm [Comment ID: 154]
Agree: 0, Disagree: 0
It is important that the TMT be built in order to facilitate astronomical and scientific research. The TMT will also facilitate educational and job opportunities for local people.
highly collaborative undertaking would greatly expand the capability and utility of the existing facilities.

The OHANA project would require fiber optic cables between the facilities and a large laboratory space for the “delay line” that is an essential component of interferometers. Sufficient laboratory space for the project is already available within one of the existing facilities. Converting the area within the facility for this use might require some internal modifications, but it is unlikely to require modifications that would change the exterior of the facility. However, interconnecting the facilities would involve the installation and maintenance of underground cables. These cables would likely follow the alignments of other utilities (electrical and communication) that already run between the astronomy sites. Implementing OHANA might require the installation of additional underground conduit along those routes between the astronomy sites. Because they are common infrastructure improvements comparable to existing roadways, electrical power feeds, and communication lines, the conduits and cables would not be required to comply with Master Plan guidelines regarding the confinement of astronomy improvements to astronomy sites. The OHANA project, or similar connections between the astronomy sites, would likely be developed in phases as the concept is proven and resources become available.

4.3.4.2 Joint Development of Astronomy Sites

Astronomy Sites 2 and 3 (which contain the W. M. Keck Observatory) were developed jointly by a consortium consisting of the University of California and the California Institute of Technology (Caltech) between 1984 and 1996. These two astronomy sites lent themselves to joint development as they are contiguous, share a long border, and the ground is relatively level across the two sites. Should Astronomy Sites 2 and 3 be recycled in the future (which is considered highly unlikely, Table 4-2), they could be jointly developed again.

While IfA considers it unlikely that other astronomy sites will be jointly developed, but the possibility cannot be completely dismissed. Astronomy Sites 5, 6, 7, and 8 are contiguous, and it is conceivable that two of them (e.g., 6/7 or 7/8) could be jointly developed. While their different elevations and geometry make that challenging, it is conceivable that new technology, materials, and/or design concepts may create an opportunity for this over the term of this Master Plan, and such a joining would be consistent with the intent of this plan.

4.3.4.3 Potential Combination and Boundary Amendment of Astronomy Sites 7 and 8

A more likely alternative to joint development is combining and amending the administrative boundary of Astronomy Sites 7 and 8 so that a single new state-of-the-art astronomy facility could be developed on a portion of the area where two facilities (UH 2.2 and UKIRT) currently exist. This would make it possible to: (i) address proximity issues with Astronomy Site 6 (Gemini), (ii) mitigate erosion risks at Astronomy Site 8, and (iii) maintain an astronomy site of sufficient size for recycling. Each of these items is discussed below:

- **Proximity issues** are created when one astronomy facility dome creates air turbulence that adversely affects astronomical seeing conditions at a nearby facility. Currently, the UH 2.2 dome on Site 7 is roughly 300 feet from the Gemini dome on Site 6 (measured from the center of one dome to the center of the other). Ideally, the two domes would be separated by 500 feet to minimize the potential for proximity issues.
#085

Posted by James A. Monk on 09/24/2021 at 8:49pm [Comment ID: 78]
Type: Typo
Agree: 0, Disagree: 0
Remove the word "but". Not needed.

#086

Posted by mcpeekm on 10/04/2021 at 12:13pm [Comment ID: 87]
Type: Suggestion
Agree: 0, Disagree: 0
Hardening the trail is not advisable. To close off the the trails to tourist and allowing
cultural sciences and practices to occur.
This would again, further modify the land. That of which has already been greatly
affected the landscape of the land itself. The human pretense of western practices
have already affected the ecology negatively.

#087

Posted by anonymous on 10/26/2021 at 9:34am [Comment ID: 422]
Agree: 0, Disagree: 0
Does this not have any oversight? I believe that any changes on the Mauna should go
through the same process. There needs to be more information about the underground
conduits and their installation in the ground. Especially with where they are and how it
will affect the landscape and the spacing in between the telescopes.

#088

Posted by Steven Urrutia on 10/26/2021 at 10:17pm [Comment ID: 546]
Type: Suggestion
Agree: 0, Disagree: 0
The proposed Ohana project largely neglects UH leaders commitment to strategy
1.5.1: "Involve the community in decision-making process early and often through the
CMS volunteer advisory groups". There is no notice of conversations between
stakeholders and community leaders to ensure this proposal of project is a product of
notable community decision-making practices. Not only is it negligent, but it reflects the
institutions manipulative practices in misleading narratives about diverse dialogues
between community members.
• **Erosion issues** at Astronomy Site 8 (UKIRT) are related to the proximity of the road located to the northwest and at a lower elevation than the facility. Grouted rubble pavement (GRP) has been installed on the slope in this area to address the erosion. Additional measures may be needed to address the erosion if Astronomy Site 8 (UKIRT) continues to be utilized.

• **Astronomy Site sizes** on the subject ridge (Astronomy Sites 5, 6, 7, and 8) range from 0.77 acres (UKIRT on Site 8) to 1.96 acres (Gemini on Site 6). A site of roughly 1.5 acres is considered the minimum necessary to support a modern optical/IR facility that would most likely be developed through the recycling of a site on this ridge, and closer to 2.0 acres would be preferable.

Figure 4-4 illustrates the amendment of the Astronomy Site 7 and 8 boundaries that would allow this; the resulting site would be referred to as Astronomy Site 7.5. A reconfiguration along this line would address each of the points above by allowing the development of a new facility with a dome that is roughly 500 feet from the Gemini dome that is setback from the erosion problems and has a size of roughly 1.5 acres. The total area of the site that is delineated in Figure 4-4 for site 7.5 is roughly 1.34 acres, which is equal to the average size of existing Sites 7 and 8, substantially less than the combined areas (2.7 acres) of Sites 7 and 8, and is completely within areas that are already permitted for astronomy facilities.

This amendment of Astronomy Site 7 and 8 boundaries would only occur if: (i) one, but not both, of Astronomy Sites 7 are 8 were to be decommissioned; and (ii) the Astronomy Site that continues is recycled. It is possible that both required events could occur during the 20-year term of this Master Plan. If it does come to pass, it would result in the continuation of one astronomy site where there are now two. The design guidelines (Part 3 of this Master Plan) that are considered in relation to the existing facility on the subject astronomy site (i.e., dome height) would be calculated on the basis of the UH 2.2 facility currently on Astronomy Site 7.

### 4.3.4.4 Multiple Small Telescopes on One Astronomy Site

All astronomy sites on Maunakea currently host a single telescope. It is becoming more common for modern astronomy facilities to have multiple similar-sized telescopes in a single dome (e.g., the original PanSTARRS concept). As astronomy sites on Maunakea are recycled, it is possible that future facilities may host multiple telescopes of similar aperture. If such changes are made these will continue to be treated as a single astronomy facility.

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28 Astronomy Site 12 (SMA), is a single interferometer telescope comprised of multiple antennas. Most of the existing facilities have secondary telescope(s) that are used for spotting and other purposes. The secondary telescopes are typically much smaller than the primary telescope and, in some cases, are mounted on the exterior of the dome.
Questionable if you think about the smithsonian very large array satellites
Figure 4-4: Potential Amendment of Astronomy Site 7 and 8 Boundaries

Source: PSI
see earlier comment regarding a system for total footprint and height cap on individual sites as well as for the entire area. This is a doubling of developed concrete area. Concrete impacts environment, runoff, erosion, water quality.
5 ROADWAYS, UTILITIES, AND MANAGED ACCESS

The discussion in this chapter addresses only those roadways, utilities, and managed access facilities located outside astronomy sites and the previously disturbed portions of Halepōhaku. Roadways, utilities, and managed access facilities are discussed separately from the uses specific to Halepōhaku (which are discussed in Chapter 3) and the MKSR (which are discussed in Chapter 4) because they cross boundaries and are independent from, but provide interconnections between, those areas and their land uses.

5.1 ROADWAYS

At one time, the Hawai‘i Department of Transportation (HDOT) anticipated making improvements to the 4.7-mile-long portion of the Maunakea Access Road above Halepōhaku that remains unpaved. However, that paving project is no longer in the HDOT’s budget. Hence, this segment of the Mauna Kea Access Road will continue to require frequent maintenance, and the use of two-wheel-drive vehicles north of/above Halepōhaku will continue to be prohibited, consistent with HAR § 20-26-28.

Should the existing and approved roads be damaged by natural process (e.g., erosion, earthquake) to the point that they cannot reasonably be restored in their current location, they will be replaced with infrastructure of similar capacity nearby.

Maunakea Observatories Support Services (MKSS) has identified the following potential access road projects (see Figure 5-1) and is presently evaluating them.

1. **Project 1.** Paving a roughly 0.5-mile-long segment at the upper end of the currently unpaved portion of the Mauna Kea Access Road. This work has been recommended because the segment has historically required much more frequent grading and other maintenance than have other unpaved road segments.

2. **Project 2.** Improving and paving the roughly 0.5-mile unpaved portion of the Mauna Kea Access Loop Road from Astronomy Site 12 (SMA) past Astronomy Site 1 (Subaru) to Astronomy Site 3 (Keck II). This would eliminate roadway-related dust, reduce the effort required to maintain the roadway, and make it easier to clear snow. In addition to paving, retaining walls could be modified and the travelway widened in the vicinity of Astronomy Site 3 (Keck II).
If the case of erosion is caused by natural occurrences. All operations will cease.
Figure 5-1: Potential Road Project Locations

Source: PSI
3. **Project 3.** Improving or retiring the older, southern, switchback portion of the Mauna Kea Access Summit Area Loop Road. This portion of the Summit Area Loop Road has proven to be less stable than the more recently built, northern, currently partially unpaved, portion of the Summit Area Loop Road. The southern, switchback portion of the Loop Road has been damaged by erosion and has required more maintenance than the northern route. This does not appear to be due to age alone. Therefore, if the northern portion of the loop is fully paved (Item 2 above), the southern switchbacks may be either improved or retired.

- Improvement would consist of drainage, subsurface structural modifications, and grading modifications and would likely not noticeably change the character of the roadway. This option may be preferred because reliance on a single access route would: (i) reduce resilience in the event of damage from a natural event (e.g., storm, earthquake, etc.) or accident that resulted in the closure of a portion of the Loop Road; and (ii) eliminate the option of operating the Summit Area Loop Road as a one-way route on snow days when there are more non-astronomy vehicles in the summit area.

- Retirement would consist of removing the hardened surfaces and retaining walls and then allowing the area to naturalize without further human intervention unless permits require additional measures. This option may be preferred if conditions continue to worsen and improvements, repairs, and/or maintenance become prohibitively expensive or other factors lead UH to this approach.

4. **Project 4.** Safety improvements as deemed appropriate throughout the extent of the road network; improvements such as additional guardrails, pullouts, and runaway truck ramps will be considered.

If the results of its evaluation studies indicate that they are cost-effective, UH will seek funding and project-level approvals for the projects listed above and other roadway needs as they become apparent.

### 5.2 UTILITIES

No expansion of or major modifications to utility infrastructure beyond that already approved is foreseen. Electrical, telecommunication, and related equipment and facilities will, however, require periodic maintenance and/or replacement to ensure that they remain fully functional and able to meet the changing needs of the facilities.

Should a non-UH entity propose and be authorized to install and operate new facilities or equipment that requires utility connections, it will be the responsibility of the project proponents to obtain approval for and install the necessary utility connections. UH will work with the project proponents and with the utility providers to provide the necessary services. This Master Plan does not address the siting, design, or other aspects of such utility extensions, if needed. These issues will be addressed through the project review process described in Part 3 of this Master Plan.

#### 5.2.1 ELECTRICAL POWER

The approved electrical power supply facilities to the UH Maunakea Lands, including Halepōhaku and the upper slopes of Maunakea, are adequate to serve existing, approved, and all foreseeable
#092

Posted by anonymous on 10/26/2021 at 10:10am [Comment ID: 427]

Agree: 0, Disagree: 0

If there are other reasons (due to development) that the road is less stable and there is the option of closing the road -- then the road should be closed. This is again another example of taking care of the Mauna that should be prioritized. The repairs being too expensive should not be the main reason why this road would be restored to the natural land. Take out the threats of developmental erosion and prioritize the caring of the Mauna.
loads and demands over the life of this Master Plan. No expansion of the power transmission and distribution system is likely to occur over the 20-year period of this Master Plan, except those required to serve new land uses that are approved in areas outside the astronomy sites, if any. Small data gathering land uses will likely not require electric power connections because they will be encouraged to run on batteries, PV panels, and/or other off-the-grid methods. Bathrooms and other facilities may require a power connection if their demand cannot be met by solar panels and batteries.

Individual astronomy sites may add PV panels to their rooftops, as Keck and Gemini did in early 2020, to produce electricity. Where PV panels are installed, they will reduce the amount of electrical power each facility draws from the Island’s electrical grid, and that must pass through the transmission and distribution facilities on Maunakea. However, because the output of these panels will be a small fraction of the amount of power required, they will not dramatically reduce the amount of electrical power that will be needed from the HECO system.

Ongoing maintenance of the existing electrical power system will continue throughout the UH Maunakea Lands during the term of this Master Plan. Maintenance is likely to include activities such as transformer, switchgear, relay, and conductor replacement as part of regularly scheduled maintenance or to replace failed equipment. Maintenance may include the replacement of sections of underground conduit and cable should they be damaged, become exposed, or fail. When replacement is necessary, it may result in minor changes to the equipment to comply with the then-current electrical code requirements.

5.2.2 COMMUNICATION AND DATA

MKSS and the astronomy facilities have confirmed that the existing fiber-optic lines that provide communication and data service to the UH Maunakea Lands are adequate to serve existing, planned, and foreseeable loads and demands at their facilities over the life of this Master Plan. New facilities, most likely data gathering projects beyond the astronomy sites, may require connections to the fiber-optic lines to provide real-time communications, remote operation, and data downloads. Efforts will be made to avoid the need for new hard-wire connections; however, if new connections are required, cabling will be placed underground in previously disturbed areas to the extent feasible.

The existing communication and data transmission facilities will continue to be maintained at a high level during the term of this Master Plan. Existing telecommunications equipment such as switches and routers will be replaced and upgraded as needed to ensure its continued reliability and to improve the data transfer rate along the existing fiber-optic system. These upgrades will support the continued trend toward remote-viewing, remote-operation, and increased data-production by new telescope instrumentation. It is possible that some of this maintenance may result in small changes to the system to comply with ever-evolving electrical codes and standards. UH anticipates that the vast majority (and quite likely all) of these will involve internal equipment

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29 The upgrade of the existing electrical power supply that has been approved as part of the TMT Project (CDUP HA-3568) is considered part of the “approved” electrical power system.
#093

Posted by HiloResident on 10/06/2021 at 2:18pm [Comment ID: 122]
Type: Suggestion
Agree: 0, Disagree: 0

It might be worth strengthening the security around the fiber-optics lines to avoid damage (e.g., the cables that were damaged during the previous astronomy protests).

#094

Posted by mcpeekm on 10/04/2021 at 12:21pm [Comment ID: 89]
Type: Suggestion
Agree: 0, Disagree: 0

This should not even be entertained as an idea. All future projects that could or could not occur are not admissible.
changes that will not affect the external appearance of the system or require substantial construction work.

Related to communications and data, the OHANA project (described in Section 4.3.4.1) would involve the installation of fiber-optic cables between the optical/IR astronomy facilities. The OHANA fiber-optic cables would be placed within previously disturbed alignments, such as existing roadways or existing utility corridors. Furthermore, should the OHANA project advance, UH may take the opportunity to replace, maintain, or improve other utility infrastructure (e.g., electric, communication, and data) that is aging and, in a few locations, being exposed by erosion, in conjunction with that work in order to minimize ground disturbance.

### 5.2.3 WATER SUPPLY

Over the term of this Master Plan, potable water will continue to be provided as it is today; trucking water obtained from municipal sources in Hilo to Halepōhaku and the astronomy sites as necessary to satisfy demand.

The continued trend toward remote viewing and operation along with the decommissioning of certain astronomy sites has reduced, and is likely to reduce even further, the use of water in the MKSR. Because remote-viewing and increased automation have reduced the number of people staying at Halepōhaku, water use is substantially lower than when the facility was fully utilized by the astronomy community. The level of water use at Halepōhaku in the future will depend largely on how access is managed in the future and the extent to which educational and other uses become established and draw users. However, most of the alternatives that are being considered would leave water use there below historical levels, and none would increase demand beyond that which could be readily satisfied by continuing to truck in water as needed to resupply the existing storage tanks.

All water supply facilities will be maintained regularly over the term of this Master Plan. As with all systems, tanks and piping may need to be refurbished and/or replaced over time. When replaced, minor changes may be necessary to comply with then-current codes and to facilitate the use of products that are available at the time the work is done.

### 5.2.4 WASTEWATER MANAGEMENT

There is no centralized wastewater collection system in the UH Maunakea Lands, and there is no plan to develop one over the term of this Master Plan. Accordingly, wastewater will continue to be handled as described below.

**MKSR.** Wastewater generated at each of the astronomy sites will be managed by each facility through permitted individual wastewater treatment systems. Those facilities that continue operation beyond 2033 will be required to properly abandon their existing wastewater treatment system and replace it with a zero-discharge wastewater system.

**Halepōhaku.** All wastewater will either be routed to other permitted wastewater treatment systems or new septic tanks with leach fields or an alternative method permissible by applicable regulations.
This was mentioned before in previous plans and never was established.
5.3 FACILITIES TO MANAGE ACCESS

It is UH’s policy to manage access to its Maunakea Lands in a manner that balances public access with UH’s obligation to: (i) protect and conserve the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manage activities to minimize potential adverse effects on the landscape and resources; and (iii) protect public health and safety. The CMP and the UH Maunakea Rules are consistent with and reflect this policy. The CMP, building on prior plans that addressed access, provides guidance and identifies many access management methods. Since then, the UH Maunakea Rules were adopted; they provide authority for UH to implement many CMP provisions related to access management, including, but not limited to, the following:

- Requiring that persons entering the UH Management Area have completed an “orientation regarding cultural and natural resources, safety matters, and other relevant information” (HAR § 20-26-5).
- Charging fees for entrance and parking (HAR § 20-26-6).
- Installing a gate or other access control structure to manage vehicular access to portions of the UH Management Area (HAR § 20-26-38(a)).
- Closing or limiting access to all or portions of the UH Management Area, when needed to protect the public from hazardous conditions (HAR § 20-26-38(b)(1)).
- Managing access by private vehicles “...for public safety and welfare, for the protection of resources, and to reduce congestion” (HAR § 20-26-38(b)(2)).
- Mandating public access by shuttle vehicles in lieu of private vehicles (HAR § 20-26-38(b)(2)).
- Establishing public access hours for the UH Management Area, provided that hunting shall be allowed pursuant to the DLNR’s hunting rules (HAR § 20-26-38(c)).

As discussed below, UH is moving forward on multiple fronts to exercise the powers that the adoption of HAR Chapter 20-26 recently granted. Two conceptual phases of managed access are envisioned at this time. The first is described in Section 5.3.1 and UH’s goal is to have it in place by the end of 2022. The second, which would likely involve the establishment of a shuttle system, is discussed in Section 5.3.2. UH will continue to gather input on its proposed managed access procedures and facilities, adjust them as necessary, and then seek the necessary approvals prior to their implementation. Input will be sought via the review of this Master Plan, community engagement via CMS advisory boards and committees, and other community outreach efforts.

5.3.1 CONCEPTUAL INITIAL PHASE ACCESS MANAGEMENT FACILITIES

As presently conceptualized, the initial phase of managing vehicular access to UH Maunakea Lands above Halepōhaku will consist of the installation and operation of the modest facilities
#096

Posted by CP on 10/26/2021 at 10:14pm [Comment ID: 545]
Type: Suggestion
Agree: 0, Disagree: 0
time slots, pre-registration, etc

#097

Posted by Pua Brown on 10/25/2021 at 2:00pm [Comment ID: 314]
Type: Correction
Agree: 0, Disagree: 0
I can think of several activities that have and continue to negatively impact the cultural landscape and natural resources and the delicate ecosystems on Mauna Kea - all 21 telescopes that are currently on the Mauna! Yes, there are 21 telescopes counting the submillimeter array, which consists of 8 telescopes. You have built roads that have increased traffic to Mauna Kea. You have blasted the mountain to build these massive telescopes. There have been several fuel leaks that could undermine the underlying groundwater aquifer with no geological study of the underlying rock formations! Endemic species that still exist on Mauna Kea are being forced to extinction. The cumulative environmental impacts of these telescopes is off the charts. Your solution is restrict access? Will this restrict access for Kanaka Maoli, the rightful stewards of these lands who need to access the Mauna for religious practice? Will this restrict traditional and cultural gathering rights? Hawaii State Constitution Art. 12, § 7
Section 7: "The State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778, subject to the right of the State to regulate such rights."

United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) Article 10: "Indigenous peoples shall not be forcibly removed from their lands or territories."
Article 12
"1. Indigenous peoples have the right to manifest, practise, develop and teach their spiritual and religious traditions, customs and ceremonies; the right to maintain, protect, and have access in privacy to their religious and cultural sites; the right to the use and control of their ceremonial objects; and the right to the repatriation of their human remains."

#098

Posted by sam nelson on 10/24/2021 at 5:28pm [Comment ID: 266]
Type: Suggestion
Agree: 0, Disagree: 0
Why limit access. I disagree with this recommendation
#099

Posted by CP on 10/26/2021 at 10:13pm [Comment ID: 544]
Type: Suggestion
Agree: 0, Disagree: 0

tour businesses only

#100

Posted by dgarcia2727 on 10/26/2021 at 4:27pm [Comment ID: 489]
Type: Suggestion
Agree: 0, Disagree: 0

Limiting access to Mauna Kea will be detrimental to Native Hawaiians and cultural practitioners that need access to the Mauna. It is clear that UH is attempting to diffuse actions to defend Mauna Kea from UH's desecration. This is unacceptable and must be removed from your plan.

#101

Posted by Jonah Bobilin on 10/21/2021 at 2:18pm [Comment ID: 213]
Type: Suggestion
Agree: 0, Disagree: 0

Document does not address how the installation of a gate to control access to the UH Management Area, including the summit of Mauna Kea, will impact kānaka maoli who visit the mountain for spiritual purposes. Restricting public access to the summit of Mauna Kea for reasons outlined in this document (ecological, public safety, etc.), without negatively affecting the ability of Hawaiians to access the mountain does not seem feasible. Restricting the ability of Hawaiians to access the mountain does not seem in alignment with the stewardship intentions and goals outlined in this document. Therefore, unless UH is able to address these matters of access for spiritual and cultural purposes to the indigenous community's satisfaction I oppose the installation of any gate or access control structure.

#102

Posted by CP on 10/26/2021 at 10:12pm [Comment ID: 543]
Type: Suggestion
Agree: 0, Disagree: 0

yes

#103

Posted by Pua Brown on 10/25/2021 at 2:25pm [Comment ID: 322]
Type: Correction
Agree: 0, Disagree: 0

This is absolutely not okay and clearly meant to block Native Hawaiians from freely accessing Mauna Kea when we need to. We are the rightful stewards and protectors of
this land. You have no right to regulate and restrict our access. We internationally recognized rights to cultural and religious freedom of worship and the perpetuation of our culture that this would clearly violate.

#104

Posted by Pua Brown on 10/25/2021 at 2:11pm [Comment ID: 318]
Type: Correction
Agree: 0, Disagree: 0
You must not charge or restrict entrance of Native Hawaiians to access our most sacred land. You must not charge a fee to Kanaka Oiwi who no longer live in Hawai’i and part of the diaspora that is exacerbated US occupation.

#105

Posted by Pua Brown on 10/25/2021 at 2:13pm [Comment ID: 319]
Type: Correction
Agree: 0, Disagree: 0
Absolutely not. This is a violation of Kanaka Maoli rights to religious freedom. Native Hawaiian access to Mauna Kea must not be restricted.

#106

Posted by HiloResident on 10/06/2021 at 2:21pm [Comment ID: 123]
Type: Suggestion
Agree: 0, Disagree: 0
Does this include all visitors?

#107

Posted by Pua Brown on 10/25/2021 at 2:15pm [Comment ID: 320]
Type: Correction
Agree: 0, Disagree: 0
There must be protection for religious practice and gathering rights. It is hard to believe that shuttle vehicles (I hope not more tour buses) would be allowed but private vehicles of Native Hawaiians would not be allowed.

#108

Posted by proudkanaka on 10/26/2021 at 6:43am [Comment ID: 404]
Type: Correction
Agree: 0, Disagree: 0
UH does not have the authority and should not be installing a gate to keep people out from using resources rightfully theirs.

#109
I do not think this is a good idea- Most hawaii residents have 4WD and can access in their own vehicle

#110

Who is the leader on this? UH?

#111

The land on Mauna Kea is ceded lands, aka stolen lands. UH does not own that land and should stop using jargon that suggests as such.
required to implement the fundamental access-related provisions of the UH Maunakea Rules (e.g.,
visitors must complete orientation, may park only in designated areas, may not use two-wheel-
drive vehicles, etc.). In addition, during the peak visitor demand portion of the day, which has
been sunset viewing, the number of certain vehicles able to proceed above Halepōhaku would be
capped.\textsuperscript{31}

To effectively manage the number of vehicles advancing above Halepōhaku and increase
compliance with the UH Maunakea Rules, certain facilities will be needed. The primary new
facility may be a kiosk (Figure 5-2) on Mauna Kea Access Road adjacent to Halepōhaku. A gate
may also be placed near the kiosk. The portion of the Mauna Kea Access Road currently
considered appropriate for these facilities include where the road is adjacent to Halepōhaku (Figure
5-3). Several operational processes are under consideration as well (Figure 5-2). The location,
scope, and design of the facilities, and the operation plan will be established following a detailed
assessment of engineering and operation considerations, additional community consultation, and
completion of the appropriate project review process (Part 3 of this Master Plan). Access
management prior to completion of these facilities may be accomplished by stationing authorized
personnel on the roadway to ensure that those vehicles and people proceeding above Halepōhaku
are doing so in compliance with the applicable rules.

\textbf{Figure 5-2: Schematic Illustrating Conceptual Initial Phase Facility Operation}

Current concepts include capping the number of non-2WD vehicles driven by nonresidents during the sunset viewing period (and requiring advance ticket purchase for access), and capping or not capping the number of non-tour, non-2WD vehicles driven by Hawai‘i residents during the sunset viewing period (and requiring free registration).
#112

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:18pm [Comment ID: 485]

Type: Suggestion
Agree: 0, Disagree: 0

It would be unacceptable to restrict or police the access of Kanaka Maoli to their mauna.

#113

Posted by rromo on 10/05/2021 at 9:01am [Comment ID: 97]

Type: Suggestion
Agree: 0, Disagree: 0

A similar gate should be included on the egress side of the road. Otherwise, the public will just drive around the gate during times when the booth is not manned. MK users can have cards, or pin numbers to exit the gate during times in which the booth is not manned.

#114

Posted by anonymous on 10/26/2021 at 10:33am [Comment ID: 438]

Agree: 0, Disagree: 0

This seems like another way to keep Native Hawaiians out. What is the point of this facility and more importantly, why now?

#115

Posted by mcpeekm on 10/04/2021 at 1:13pm [Comment ID: 91]

Type: Correction
Agree: 0, Disagree: 0

All Kānaka Maoli are permitted free entry for cultural practices and cultural studies.

#116

Posted by Uilani Naipo on 10/26/2021 at 8:16pm [Comment ID: 515]

Type: Suggestion
Agree: 0, Disagree: 0

not ideal ... driver is on the opposite side of the kiosk.

#117

Posted by Doug Arnott on 09/12/2021 at 1:47pm [Comment ID: 30]

Type: Correction
Agree: 0, Disagree: 0

This booth is on the passenger side of the vehicle...card readers and pin pads need to be on the driver side..
Or the booth placed in the middle and the road widened at that spot to accommodate separated lanes.

#118

Posted by sam nelson on 10/24/2021 at 5:30pm [Comment ID: 267]
Type: Suggestion
Agree: 0, Disagree: 0
This is public land - why limit access? There is no need for this

#119

Posted by mellow023 on 10/25/2021 at 6:04pm [Comment ID: 340]
Agree: 0, Disagree: 0
NO MORE TELESCOPES ON THE MAUNA. Anything educational can be built somewhere NOT sacred. Adding a gate limiting access to the Mauna will limit culture practitioners from going to worship the Mauna. This should NOT be done. I strongly oppose this because kanaka maoli should be able to worship and be in ceremony when they are called to be, hence free access to the summit. And NO COMMERCIAL TOURS. These are not places for people to look and tour around. Mauna is a place of sacredness and love for deities.

#120

Posted by Pua Brown on 10/25/2021 at 3:31pm [Comment ID: 334]
Type: Correction
Agree: 0, Disagree: 0
You must not restrict access for Native Hawaiians.

#121

Posted by Cassidy Bennett on 10/25/2021 at 1:50pm [Comment ID: 311]
Type: Correction
Agree: 0, Disagree: 0
There should not be a gate limiting access to the Mauna.
Figure 5-3: Conceptual Schematic Indicating Area for Managed Access Initial Phase Facilities

Source: PSI
Area by Hale Pohaku needs to be improved and expanded to educate the public on all aspects of the mountain, both scientific and cultural.
Accessory facilities would be needed wherever the kiosk, and potentially a gate, is built. These may include, but may not be limited to: (i) road/intersection improvements to enable “U” turns (this is needed to afford those who approach the kiosk, but are not allowed to proceed up the mountain, to safely turn around); (ii) lighting to provide safety in the vicinity of the access management facilities; (iii) utility connections to provide communications links and electrical power; (iv) signs to provide warnings and instructions to vehicle drivers; and (v) boulders or other barriers to inhibit circumventing the management facility.

5.3.2 Phase 2 Access Management Facilities Concept

As presently conceptualized, the second phase of managing public access to UH’s Maunakea Lands involves the establishment and operation of a shuttle system. The specific new facilities on UH Maunakea Lands that would be needed to support a shuttle system are not yet well-defined because the shuttle concept has not yet been fully developed. However, they are likely to include, the following:

- The relocation of the facilities installed in Phase 1 or the installation of additional gates and/or kiosks within Halepōhaku or the adjacent portion of the Mauna Kea Access Road.
- Additional parking areas and/or shuttle storage/maintenance space at Halepōhaku, in the unlikely event that the shuttle terminal is at Halepōhaku.
- Shuttle stops, with shelter and signs, at various locations at Halepōhaku and in the MKSR, likely in areas used for visitor parking prior to the start of this phase.
- Accessory improvements such as lighting, utilities, and signs.

In addition to those facilities listed above that would be on UH Maunakea Lands, a new visitor parking area and shuttle base facility would likely be necessary on non-UH land somewhere along the Mauna Kea Access Road between Saddle Road and Halepōhaku. Signs and other accessory improvements would also likely be necessary on non-UH land below Halepōhaku. UH presently anticipates that it would seek to cooperate with the Department of Hawaiian Home Lands (DHHL) or another organization to operate the shuttle, especially if the base facility is on DHHL land. The cooperating organization, along with other stakeholders, would play a significant role in identifying and siting the facilities required to implement the shuttle phase.

Public input will continue to be sought and the economic viability of a shuttle phase will continue to be evaluated and only implemented when warranted.
Making things easier to access, more signs, more kiosks, will innately bring more traffic. Really looking at what is sustainable amount of traffic and creating a plan to manage those different types of users will ultimately keep numbers down, while allowing cultural practitioners the freedom of time and movement. Currently DLNR requires permits for camping - one price local one price tourist. A similar system with pre-registration, and possibly a separate system for Native Hawaiians may accomplish the goal of managing traffic.

If it is located on DHHL land, then it belongs to Hawaiians, as does the rest of this Mauna. It should not be under the jurisdiction of UH.

Having a cultural center at the base (Mauna Kea Access Rd) should be considered. This center should be have rest facilities, vendor (to provide hydration), and education - both educational, health awareness of going up, scientific information of the science reserve, and what to expect (to include cost). This site should be Hwn-own and Hwn-operated businesses and vendors. This is real important that the first "face" to visitors, should be locals - priority of Hawaiians, that demonstrate code of conduct and protocol (even if it's just 5 min stop here). The current visitors center (even if they do the reconstruction/redesign) does not have enough footprint to provide a thorough user experience and education.

As long as the old decommissioned scopes are removed, I support the TMT replacing them with the caveat that the public has physical access and educational benefits, open house etc. If king Kalakaua was alive, I think he would support it as well, because he was a renaissance man... brought technology to Hawaii. Our Iolani Palace had electricity before the White House or Buckingham Palace; Lahainaluna School is the oldest school west of the Rocky Mountains and owned the first printing press in the
west!

There’s lots of people, even kanaka, who support TMT, but feel scared to speak out.

Good luck!

#127

Posted by mcpeekm on 10/04/2021 at 1:16pm [Comment ID: 92]
Agree: 0, Disagree: 0
First, land must be permitted to all Kānaka Maoli. Before further usage of DHHL lands are to be accessed.

#128

Posted by anonymous on 10/26/2021 at 10:34am [Comment ID: 439]
Agree: 0, Disagree: 0
After all these years and NOW a gate is going to be built? There is not enough sufficient evidence pointing to why this would be needed now

#129

Posted by rromo on 10/05/2021 at 9:03am [Comment ID: 98]
Type: Suggestion
Agree: 0, Disagree: 0
the lower parking lot at the VIS (gravel) could be used as the shuttle station.

#130

Posted by sam nelson on 10/24/2021 at 5:31pm [Comment ID: 268]
Type: Suggestion
Agree: 0, Disagree: 0
I object to a shuttle system

#131

Posted by rromo on 10/05/2021 at 9:06am [Comment ID: 99]
Type: Suggestion
Agree: 0, Disagree: 0
For the purpose of the shuttle system, I would recommend looking at other sites that have successfully implemented a similar program. One example is Sabino Canyon in the Coronado National Forest in Tucson, AZ.  https://www.fs.usda.gov/recarea/coronado/recarea/?recid=75425

#132

Posted by Devon Bearden on 09/15/2021 at 9:25am [Comment ID: 53]
From what I understand, this land is sacred to native Hawaiians. I think it's great you are asking for people's opinions here but I believe the most respectful thing to do is to seek out the opinion of native Hawaiians in particular.

#133

Posted by anonymous on 10/26/2021 at 10:40am [Comment ID: 441]

Installing a shuttle system is another move towards more development and more tourism on the Mauna. This whole plan is just to further your ambitions instead of actually listening to the voices of the people. Why would there be an expansion of tourism here? Adding more facilities and parking, permanent bathroom structures - this is not taking care of the Mauna. There have been so many years of mismanagement and now you're just adding more structures to manage. Even the decommission plans are just temporary before adding more telescopes on the Mauna. Please, listen to us when we say that we do not want anything more up there. The plan of making these new fancy structures do not benefit the Mauna or the Native Hawaiians - it's just a facade to continue your own plans. Please listen to us. Please.
DRAFT MASTER PLAN FOR THE UNIVERSITY OF HAWAIʻI MAUNAKEA LANDS
E Ō I KA LEO (LISTEN TO THE VOICE)*

*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

SEPTEMBER 2021
#001

Posted by shennessey on 10/25/2021 at 11:36pm [Comment ID: 396]
Type: Suggestion
Agree: 0, Disagree: 0
Hear my voice: I do not consent to the construction of TMT or any other development on Maunakea. Not now, not ever.

#002

Posted by Anonymous on 10/20/2021 at 4:30am [Comment ID: 203]
Type: Correction
Agree: 0, Disagree: 0
STOP THIS DISGUSTING DESTRUCTION OF NATIVE LANDS. Haven’t you done enough damage? Think about someone besides yourself for once in your ****** life

#003

Posted by pcross on 10/25/2021 at 9:13am [Comment ID: 290]
Agree: 0, Disagree: 0
We do not need any more telescopes!

#004

Posted by NormajeanVas on 10/09/2021 at 5:25pm [Comment ID: 146]
Agree: 1, Disagree: 0
The Stars!! I am a Second generation Teotihuacahn Nahua people (descended from the Aztecs in Mexico). I have lived on Oahu for many decades now, and do not understand the hesitancy from the Native Hawaiians to observe the stars and the universe. We explore and live from the ocean, which is also spiritual with many sacred under-water sites. Mauna Kea is spiritual and should be the extended eye with which we explore the stars. Some native Hawaiians believe that Polynesians are descended from the people from South America. We are so much alike that I believe it to be true. I feel it in my blood, which is considered sacred, that TMT should be built. Aloha!
Part 3: Implementation
E Ō I KA LEO (LISTEN TO THE VOICE)
TABLE OF CONTENTS

PART 3: IMPLEMENTATION

INTRODUCTION..........................................................................................................................1

6 PROPOSAL REVIEW PROCESS.................................................................................................................. 6-1
6.1 SUBMITTING A PROPOSAL .................................................................................................................. 6-2
6.2 PHASE 1 SCREENING AND ASSESSMENT ......................................................................................... 6-2
6.3 PHASE 2 PROPOSAL REVIEW .............................................................................................................. 6-4
6.4 PHASE 3, TYPE B PROPOSAL REVIEW .............................................................................................. 6-7
6.5 PHASE 4, TYPE C PROPOSAL REVIEW .............................................................................................. 6-9
6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE .............................................................6-11
6.6.1 Type A ........................................................................................................................................ 6-11
6.6.2 Type B ........................................................................................................................................ 6-11
6.6.3 Type C ........................................................................................................................................ 6-12

7 DESIGN GUIDELINES .................................................................................................................................. 7-1
7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS ............................................................ 7-1
7.1.1 Management of Native Materials ................................................................................................. 7-1
7.1.2 Import of Aggregate Materials .................................................................................................. 7-1
7.2 GUIDELINES APPLICABLE TO NEW ASTRONOMY FACILITIES IN THE MKSR ......................... 7-2
7.2.1 All Improvements to Remain within Subject Astronomy Site ...................................................... 7-2
7.2.2 Dome Height ................................................................................................................................. 7-3
7.2.3 Height of Structures Other than Domes ....................................................................................... 7-4
7.2.4 Limit on Overall Bulk of Facilities on Astronomy Sites ............................................................. 7-5
7.2.5 Color of Facilities ........................................................................................................................ 7-5
7.2.6 Snow and Ice Considerations ..................................................................................................... 7-5
7.2.7 Landscape Plantings ..................................................................................................................... 7-6
7.2.8 Parking ........................................................................................................................................ 7-6
7.2.9 Fences, Walls, and Barriers ......................................................................................................... 7-6
7.2.10 Fuel System and Hazardous Materials ...................................................................................... 7-6
7.2.11 Wastewater System .................................................................................................................. 7-7
7.2.12 Sound Generation ..................................................................................................................... 7-7
7.2.13 Maximize Extent of Remote Operation ..................................................................................... 7-7
7.2.14 Exceptions to the Guidelines for Astronomical Facilities ..........................................................7-7
7.3 GUIDELINES APPLICABLE TO OTHER FACILITIES AND USES IN THE MKSR ....................... 7-7
7.4 DESIGN GUIDELINES FOR HALEPŌHAKU (TMK PARCEL 12) .................................................... 7-8
7.5 GUIDELINES APPLICABLE TO ROADWAY, UTILITY DEVELOPMENT, AND SIGNAGE: ................. 7-8
7.5.1 Roadways .................................................................................................................................... 7-9
7.5.2 Utilities ........................................................................................................................................ 7-9
7.5.3 Signage ........................................................................................................................................ 7-9
7.6 EXEMPT FACILITIES .......................................................................................................................... 7-11

8 MASTER PLAN ADOPTION, EFFECTIVENESS, AND FUTURE AMENDMENTS ..................................... 8-1

9 REFERENCES.............................................................................................................................................. 9-1
No TMT should be built on Mauna Kea EVER.
LIST OF FIGURES

Figure 6-1: Phase 1 Screening and Assessment Process Flowchart ........................................ 6-3
Figure 6-2: Phase 2 Review Process Flowchart ..................................................................... 6-5
Figure 6-3: Establishing Proposal Type Flowchart .................................................................. 6-6
Figure 6-4: Phase 3, Type B Proposal Review Flowchart ...................................................... 6-8
Figure 6-5: Phase 4 Type C Proposal Review Flowchart ........................................................... 6-10
Figure 6-6: Review Flowchart and Timeline: Type A Proposal ............................................... 6-13
Figure 6-7: Review Flowchart and Timeline: Type B Proposal ............................................... 6-14
Figure 6-8: Review Flowchart and Timeline: Type C Proposal ............................................... 6-15
Figure 7-1: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Hilo ................................................................. 7-3
Figure 7-2: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Waimea ................................................................. 7-4
# ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronyms</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
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<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
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<td>BOR</td>
<td>UH Board of Regents</td>
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<td>CDUA</td>
<td>Conservation District Use Application</td>
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<td>CDUP</td>
<td>Conservation District Use Permit</td>
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<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<tr>
<td>CIP</td>
<td>Capital Improvement Project</td>
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<td>CMP</td>
<td>Comprehensive Management Plan¹</td>
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<tr>
<td>CMS</td>
<td>Center for MaunaKea Stewardship</td>
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<tr>
<td>CRMP</td>
<td>Cultural Resources Management Plan</td>
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<td>CSO</td>
<td>Caltech Submillimeter Observatory</td>
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<td>CMS</td>
<td>Center for MaunaKea Stewardship</td>
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<td>DESI</td>
<td>Dark Energy Spectroscopic Instrument</td>
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<td>Department of Hawaiian Home Lands</td>
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<td>DLNR</td>
<td>Department of Land and Natural Resources</td>
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<td>General Lease S-4191 from BLNR to UH, which expires December 31, 2033</td>
</tr>
<tr>
<td>GRACES</td>
<td>Gemini Remote Access to CFHT ESPaDOnS Spectrograph</td>
</tr>
<tr>
<td>GRP</td>
<td>Grouted rubble pavement</td>
</tr>
<tr>
<td>HAR</td>
<td>Hawai‘i Administrative Rules</td>
</tr>
<tr>
<td>HDOT</td>
<td>Hawai‘i Department of Transportation</td>
</tr>
<tr>
<td>HECO</td>
<td>Hawaiian Electric Company</td>
</tr>
<tr>
<td>HRS</td>
<td>Hawai‘i Revised Statutes</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating, ventilation, and air conditioning</td>
</tr>
<tr>
<td>IfA</td>
<td>Institute for Astronomy</td>
</tr>
<tr>
<td>‘Imiloa</td>
<td>‘Imiloa Astronomy Center of Hawai‘i</td>
</tr>
<tr>
<td>IR</td>
<td>Infrared</td>
</tr>
<tr>
<td>IRTF</td>
<td>NASA Infrared Telescope Facility</td>
</tr>
<tr>
<td>JCMT</td>
<td>James Clerk Maxwell Telescope</td>
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</table>

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tr>
<td>KKM</td>
<td>Kahu Kū Mauna</td>
</tr>
<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
</tr>
<tr>
<td>MKO</td>
<td>Maunakea Observatories</td>
</tr>
<tr>
<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
</tr>
<tr>
<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>MSE</td>
<td>Maunakea Spectroscopic Explorer</td>
</tr>
<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
</tr>
<tr>
<td>NAR</td>
<td>Natural Area Reserve (DLNR)</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>OCCL</td>
<td>Office of Conservation and Coastal Lands (DLNR)</td>
</tr>
<tr>
<td>OHANA</td>
<td>Optical Hawaiian Array for Nanoradian Astronomy</td>
</tr>
<tr>
<td>OMKM</td>
<td>Office of Maunakea Management</td>
</tr>
<tr>
<td>PV</td>
<td>Photovoltaic</td>
</tr>
<tr>
<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
</tr>
<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
</tr>
<tr>
<td>TMK</td>
<td>Tax Map Key</td>
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<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
</tr>
<tr>
<td>UC</td>
<td>University of California</td>
</tr>
<tr>
<td>UH</td>
<td>University of Hawai‘i</td>
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<tr>
<td>UH Hilo</td>
<td>University of Hawai‘i at Hilo</td>
</tr>
<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
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<tr>
<td>VIS</td>
<td>Visitor Information Station</td>
</tr>
<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
</tr>
<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
</tr>
</tbody>
</table>
INTRODUCTION

This part of the Master Plan, Part 3, discusses the implementation of this Master Plan, including the proposal review process, design guidelines, and amendment procedure. Part 1 of the Master Plan provides important context for the understanding of the facilities and land uses that may be proposed over the life of this Master Plan. Part 2 of the Master Plan discusses the facilities and land uses that UH believes may be proposed within the UH Maunakea Lands over the period of this Master Plan.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under the DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan.33

The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives outlined in Part 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands.34 The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. Part 3 of this Master Plan also includes a framework for UH to consider proposals not identified in this Master Plan.

Proposals that are considered land uses will first need to be reviewed and approved by UH (Chapter 6). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring a Conservation District Use permit or approval.

32 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

33 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled “Public and Commercial Activities on Mauna Kea Lands” and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP, which is about the management of the UH Maunakea lands.

34 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
It needs to be approved by the Hawaiian people. If the "State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua'a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778," (Const. Art. 12, § 7) you must seek the consent and approval of the ahupua'a tenants and descendants before any proposal that will impact Mauna Kea's natural ecosystems and landscape moves forward.

Any proposals that impact the 'Aina need to have an Environmental Impacts Study and a Cultural Impact Study. All funding, including the money needed for decommissioning needs to be secured prior to construction so it doesn't further drain and tax the Hawaiian people. I resolutely demand that no more construction happens on Mauna Kea. If you will not listen to or respect the will, demands, and wishes of the Hawaiian people, you will be forced to perpetuate state violence against us and arrest us again like you did to na kupuna in 2019. The world is watching. If you are to ignore us - which you seem determined to do, all permits need to be in place BEFORE construction begins - not after. If construction begins without the necessary permits, EA and EIS, and water permits, and all funds secured, the project must not move forward and be abandoned so as to not force more of an emotional and financial burden on the Native Hawaiian people or those residing in Hawai'i.

Kanaka Maoli and their allies are asking for the Native Hawaiian culture and sacred land to be protected and respected. Going forward with this plan is willfully insensitive and disrespectful of their pleas.

"...in this Mater [sic] Plan."
6 PROPOSAL REVIEW PROCESS

The University of Hawaiʻi (UH) will only allow a project proposed on UH Maunakea Lands to proceed to subsequent planning steps after it has gone through a vigorous review for consistency with all applicable UH policies, plans, procedures, and other considerations outlined in Part 3 of this Master Plan. This rigorous review is necessary due to the area’s sensitive environment and public interest in proposals on UH Maunakea Lands.

All proposals that represent new land uses on UH Maunakea Lands, or that would substantially alter previously approved land uses on these lands, must complete the internal UH review and approval process described below before proceeding. This includes but is not limited to: (i) work on any astronomy site, roadway, utility line, building, or other type of structure; (ii) excavation, filling, or change to surface topography; and (iii) planting or removal of vegetation. Proposals that consist entirely of interior work in an existing structure (e.g., projects that do not alter the exterior of an existing facility such as installing a new instrument on a telescope) are typically not land uses; consequently, this review and approval process would not apply.

The internal UH review process outlined in this chapter is a framework for how UH determines whether a land use proposal within the UH Maunakea Lands may proceed with seeking permits and approvals from other regulatory authorities. The process begins with an entity submitting a proposal (Section 6.1) and then one or more phases of review depending on the proposal’s suitability, scope, and scale. During the Phase 1 review (Section 6.2), the proposal is screened and assessed to establish whether it is appropriate for the UH Maunakea Lands. All proposals considered appropriate then advance to the phase 2 review (Section 6.3) and potentially other phases of review.

The process laid out in this Part 3 is separate from other applicable agency permits and approvals. After UH approves a particular land use proposal, the proposal proponents will need to obtain a permit or approval from DLNR or BLNR under DLNR’s Conservation District Rules (HRS Chapter 183C/HAR Chapter 13-5) since all UH Maunakea Lands are also within the Conservation District. Because UH Maunakea Lands are state lands, the State environmental review process is triggered (HRS Chapter 343/HAR Chapter 11-200.1). Consultation with DLNR’s State Historic Preservation Division is usually required, given the potential effects on historic property and native Hawaiian burials (HRS Chapter 6E). These are just a few examples of the permits and approvals that may be required from other regulatory agencies. The UH review process laid out in this Part 3 does not replace any subsequent required approvals. However, the UH review process is intended to complement and support future efforts and ensures early planning, community outreach, and agency consultation before a proposal is advanced.

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35 For purposes of this Master Plan, “land use” has the same meaning as defined under DLNR’s Conservation District Rules at HRS § 13-5-2, which provides as follows: “‘Land use’ means: (1) The placement or erection of any solid material on land if that material remains on the land more than thirty days, or which causes a permanent change in the land area on which it occurs; (2) The grading, removing, harvesting, dredging, mining, or extraction of any material or natural resource on land; (3) The subdivision of land; or (4) The construction, reconstruction, demolition, or alteration of any structure, building, or facility on land.” As further provided under HRS § 13-5-2, the term land use “does not include the taking of . . . wildlife that is regulated by state . . . hunting laws nor the gathering of natural resources for personal, non-commercial use or pursuant to Article 12, Section 7 of the Hawaii State Constitution or section 7-1, HRS, relating to certain traditional and customary Hawaiian practices.”
6.1 SUBMITTING A PROPOSAL

A project proponent can officially submit their proposal by completing and submitting the most recent version of a Project Proposal Form, which will be available online after this Master Plan is finalized. UH and entities that have existing facilities within the UH Maunakea Lands submit their proposals via a Five-Year Outlook Plan, which they submit annually. The Five-Year Outlook Plan describes all the projects that each entity anticipates undertaking over the next five years.

The required content and format of the Project Proposal Form and the Five-Year Outlook Plan may change over the period of this Master Plan. At minimum, it is expected that these documents will always require the following information:

- Proposal name and purpose;
- Proposal location, if known;
- Proposal description, including: (i) square footage of added space (if any), (ii) necessary infrastructure requirements, (iii) construction crew and equipment likely required, and (iv) need for/estimate of volume of ground disturbance; and
- Anticipated start date and duration.

6.2 PHASE 1 SCREENING AND ASSESSMENT

The first phase of UH’s review process involves the screening and assessment of a proposal to determine if it is appropriate for siting on UH Maunakea Lands. This phase of review is conducted after a proponent officially submits their proposal; the process is illustrated in Figure 6-1. The Phase 1 screening and assessment centers on the proposal’s ability to address and/or comply with the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable,
  - Employ world-class technology, research techniques, and design.
- Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
in each of these administrative phases it is critical that a respected Hawaiian leader be in a position of co-managing these reviews. If we want UH and Astronomy to have a successful future it needs to increasingly be led by Hawaiian leaders.

Benefit the islands and the Hawaiian people.

If we want to be progressive we need to get away from 'not significantly harm' this has a track record of meaning the project will go on regardless of harm being done. If UH receives another term of stewardship it is time to improve on commitments and language and procedure should enforce that.

There is no specific requirement (under minimum requirements) about HOW any proposed project will honor and BENEFIT the Native Hawaiian people. Much of this draft master plan highlights the need to align with Native Hawaiian cultural values. If such is so important, then include in proposal requirement.
- The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

- Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated.

**Figure 6-1: Phase 1 Screening and Assessment Process Flowchart**

Proponent submits proposal to CMS (using Project Proposal Form)

Step 1. CMS staff evaluate proposal against criteria listed in Section 6.2, which include:
- Ability to comply with UH policies, this Master Plan, and the CMP.
- Requires Maunakea’s unusual resources or position/elevation for success.
- Consistency with Conservation District purposes and subzone objectives, conditions of existing permits (if applicable), and design guidelines.

CMS staff prepare evaluation report (report can be verbal or written, depending on scope of proposal).

Step 2. CMS ED (or UH Hilo Chancellor designee) reviews evaluation report, consults with others as they deem necessary (which may include UH administration, advisory bodies, other state agencies, and others), and makes decision.

Is proposal appropriate for UH Maunakea Lands?

Yes

3.a Proceed to Phase 2 review (Figure 6-2). When CMS indicates it is required, Proponent identifies a UH proposal sponsor in consultation with CMS.

No

3.b Proposal rejected as submitted; process ends.

Source: CMS

UH will only entertain proposals that it believes meet the criteria listed above. CMS staff will be the first to assess the proposal and prepare a written and/or verbal report (Step 1). The CMS Executive Director (or UH Hilo Chancellor designee) will consider the staff’s report and may seek input from others (Step 2). Those sought out for early input will depend on the scope of the proposal and may include affected units within UH, members of the CMS advisory bodies, regulatory agencies with jurisdiction or expertise, Hawai‘i Island community, native Hawaiian...
Kanaka Maoli are NOT part of this process. Why are the most impacted community NOT part of this process?
No community consultation either, it's like you're not serious about listening to our leo! Kahu Ku Mauna has not been consulted even though they are part of the flowchart to be consulted.

I adamantly oppose this plan and know that UH should stop everything and all the leases. Just listen to the kanaka maoli and elders telling you about protection, love, and care.
cultural practitioners, or other interested persons. In general, input will be sought from people that
(i) have expertise in the field of research or endeavor being proposed, (ii) have expertise
concerning potential impacts, and (iii) those operating facilities or conducting activities near the
proposed location, if a specific location has been identified. Once a decision has been reached,
CMS will prepare a letter to the proposal proponent (Step 3) outlining if the proposal is appropriate
for UH Maunakea Lands or not, and if not, why.

At the discretion of the CMS Executive Director, UH may require that the proponent identify a
UH sponsor. The input process described above may aid in identifying the proposal sponsor if one
has not already been identified.\textsuperscript{36} The UH sponsor should be knowledgeable and supportive of the
proposal and should assist CMS with future proposal review steps, if necessary. The sponsor
should be project specific; for example, an IfA astronomer might sponsor an astronomy project, or
a UH climate scientist might sponsor a weather station proposal.

\section*{6.3 Phase 2 Proposal Review}

Most proposals found to be appropriate for UH Maunakea Lands during the Phase 1 screening and
assessment will advance to Phase 2 review with no action required by the proposal proponent.
However, there are a few exceptions: (i) if the proposal proponent was directed to identify a UH
sponsor during Phase 1, then the Phase 2 review will only commence once the UH sponsor has
been selected; and (ii) if the proposal is a decommissioning, then the proposal proponent shall
prepare and submit a Notice of Intent (NOI) and a Phase 1 Environmental Site Assessment (ESA),
prior to the commencement of the Phase 2 review.

Figure 6-2 provides a flowchart illustrating the Phase 2 review process. The process involves
CMS staff, the CMS Executive Director, CMS advisory bodies, and culminates in a determination
by the CMS Executive Director (or UH Hilo Chancellor designee). The primary purposes of the
Phase 2 review include:

- \textit{Establishing the proposal type.} There are three proposal types (Type A, Type B, and Type
  C); Figure 6-3 illustrates the considerations associated with establishing the proposal type.
  Proposal types are generally determined based on project complexity and impacts, requiring
  more intense review as we move from Type A to Type C.

- \textit{Providing general comments.} During this first detailed review of the proposal, the CMS
  staff and advisory bodies will provide general comments typically consisting of (i) requests
  for additional information, such as more detailed descriptions of certain proposal
  components, field studies, and technical reports; (ii) advice on potential measures to avoid,
  minimize, or mitigate proposal impacts; and (iii) if the proposal is a Type C proposal, input
  on the Implementation Plan content.

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\textsuperscript{36} Project proponents are encouraged to plan their project and work with a UH sponsor before and after the review process.
However, any relationship between the proponent and sponsor before or after the project review process is beyond the scope of
the review process. In the case of projects proposed by CMS, the project proponent will be the CMS project manager and that
individual will not be involved in drafting the staff report in this or subsequent project review processes.
Figure 6-2: Phase 2 Review Process Flowchart

Step 1(a). If required after Phase 1 ESA, **Proponent identifies** a UH proposal sponsor in consultation with CMS; if a decommissioning, **Proponent provides** NOI and Phase I ESA.

Step 1. **CMS staff prepares report** that proposes Type (A, B, or C; which is informed by discussions with DLNR; see Figure 1-3), provides comments, and lists draft conditions.

Step 2. **CMS ED reviews and approves staff report** and authorizes proceeding to Step 3.

Step 3. **Kahu Kū Mauna (KKM) and Environment Committee (EC) review and comment** on proposal and associated CMS report.

Step 4. **Maunakea Management Board (MKMB) reviews** proposal, associated CMS report, plus KKM and EC input, and provides a recommendation.

Step 5. **CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, then **decides** which type each proposal is and what conditions should be imposed, if any, or rejects the proposal; the determination is documented in a letter to Proponent.

6.a If Type A, this determination shall serve as UH's approval. Proponent can proceed (as applicant) with downstream disclosures, approvals, and/or permits, if any (see Section 6.6.1 and Figure 6-6)

6.b If Type B, proceed to Phase 3 review described in Section 6.4 and Figure 6-4; also see Figure 6-7 for Type B process overview.

6.c If Type C, proceed with Phase 4 agreement and review described in Section 6.5 and Figure 6-5; also see Figure 6-8 for Type C process overview.

6.d Proposal rejected as submitted; Proponent may revise and resubmit.

Source: UH
Figure 6-3: Establishing Proposal Type Flowchart

The UH Type determination is guided by consultation with OCCL under its Conservation District Rules (HAR Chapter 13-5). This consultation occurs before an application is submitted; OCCL will not make a formal determination on whether a site plan approval, departmental permit, or board permit will be required, if at all. The purpose of the UH Type designation is to facilitate planning at the earliest practicable time and allocate appropriate staff time and resources to UH review.

CMS staff, Proponent, and UH proposal sponsor (if applicable) review HAR Chapter 13-5, as amended, and discuss with OCCL the type of CDUP that will likely be required for the proposal, if any. CMS staff will then recommend the type of UH review and approval that is appropriate.

- Minor alteration; Minor repair; Replacement
- Moderate alteration; Repair, maintenance, operation
- New facility/project
- Decom, complete and full
- Decom, not complete and full
- No approval necessary*

- Site Plan Approval
  - UH Type B
- Departmental Permit
  - UH Type C
- Board Permit

Note: * In some cases, no approval is necessary from DLNR; however, the Chairperson of BLNR has discretion regarding whether a permit or approval is required and what type of permit or approval is appropriate.

Decom = decommissioning.

Source: UH

- **Identifying potential conditions.** For all proposal types, except Type A, this is the first of at least two UH review cycles. Therefore, the conditions identified during Phase 2 review may be dropped, modified, and/or expanded during subsequent phases of review. In the case of Type A proposals, the conditions identified during Phase 2 review will be fully developed and the only conditions placed on the proposal by UH.
CMS and the advisory bodies have latitude to identify secondary purposes of the Phase 2 review depending on the scope, scale, or type of proposal.

In Step 1 of the Phase 2 review, CMS evaluates the proposal and prepares a staff report that addresses the primary purposes listed above; this includes a recommendation regarding the proposal type – Type A, Type B, or Type C – based on the considerations outlined in Figure 6-3. CMS may consult with the proposal proponent, UH sponsor, DLNR, and others to assist and inform its evaluation. In Step 2, the CMS ED reviews and approves the staff report before it goes to the CMS advisory bodies for consideration in Steps 3 and 4. The advisory bodies review the proposal and CMS’ recommendation and provide their input on the matter to the CMS ED (or UH Hilo Chancellor designee) who then, in Step 5, makes a formal determination regarding the proposal’s type, the proposal comments that will be provided to the proponent, and which conditions will be attached to the proposal. Those decisions will be documented in correspondence from UH to the proposal proponent.

For proposals determined to be Type A, the UH review process ends at the completion of the Phase 2 review. For other proposal types, the UH review process proceeds to Phase 3 or Phase 4, as discussed in Sections 6.4 and 6.5.

### 6.4 PHASE 3, TYPE B PROPOSAL REVIEW

Those proposals determined to be Type B will proceed to the Phase 3 review. The Phase 3 review will commence once the proposal proponent provides any information requested at the completion of the Phase 2 review (Step 1). In the case of decommissioning proposals that intend to completely remove their facility and fully restore the site, the proponent shall provide additional Environmental Due Diligence products (EDD), if any are required, a Site Decommissioning Plan (SDP), and a Site Plan Approval application.

Figure 6-4 summarizes the Phase 3, Type B proposal review process. The process is similar to the Phase 2 review in that the process involves a review and report by CMS staff (Step 2), the review and approval of that report by the CMS Executive Director (Step 3), review and consideration of the proposal by the advisory bodies (Steps 4 and 5), and a written statement being provided to the proponent at the completion of the Phase 3 review process (Step 6). The scope of the Phase 3 review is different from the Phase 2 review wherein Phase 3 places emphasis on (i) advising the proponent on how best to comply with the CMP; (ii) advising the proponent how to avoid, minimize, or mitigate potential proposal impacts; and (iii) developing conditions that UH will place on the proposal. CMS and the advisory bodies have latitude to widen the scope of the Phase 3 review depending on the scope, scale, or type of proposal. It is also anticipated that during Step 2, CMS and the proponent will work to resolve, via project clarifications, modifications, or other means, concerns raised by CMS.
Figure 6-4: Phase 3, Type B Proposal Review Flowchart

Step 1. **Proponent provides** CMS with requested information (e.g., more developed plans and Site Plan Approval application) for the Type B proposal, when it becomes available; if a decommissioning proposal (complete removal and full restoration) **Proponent provides** additional EDD products (if any triggered), Site Decommissioning Plan (SDP), and Site Plan Approval application.

Step 2. **CMS reviews** additional information, consults with Proponent (who revises proposal, if appropriate), and prepares a staff report.

Step 3. **CMS ED reviews and approves** staff report and authorizes proceeding to Step 4.

Step 4. **KKM and EC review and comment** on additional information and associated CMS report.

Step 5. **MKMB reviews** additional information, associated CMS report, KKMC input, Environment Committee input, and public input, then provides a recommendation.

Step 6. **CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, consults with UH Hilo Chancellor, then **provides Proponent written statement with conditions**, if any.

Application and UH conditions agreeable to both CMS and Proponent?

Yes

Proponent proceeds with obtaining necessary permits and approvals.
- Proponent complies with UH conditions and is applicant for approvals and permits.
- UH signs as landowner where required.
- Proponent consults with UH as appropriate.

No

If the proposal proponent finds the UH conditions acceptable and both the proposal proponent and UH find the Site Plan Approval application acceptable, then UH will sign the site plan approval application and UH conditions agreeable to both CMS and Proponent?
application as “landowner” and the project proponent may proceed with obtaining any and all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B proposal.

If the proposal proponent finds the UH conditions unacceptable, then the proposal proponent shall provide additional information and/or modify their proposal and return to Step 1 of the Phase 3, Type B proposal review.

6.5 PHASE 4, TYPE C PROPOSAL REVIEW

Type C proposals are those that are assessed during Phase 2 review likely to require a departmental (i.e., DLNR) or board (i.e., BLNR) CDUP. Developing plans for and obtaining authorization to construct and operate a Type C proposal on Maunakea is a more intensive process that entails early and continuing consultation with UH, DLNR, the public (with special emphasis on the Native Hawaiian and Big Island communities), and other county, state, and federal agencies.

The Phase 4, Type C proposal review process is summarized in Figure 6-5 and consists of two parts: (i) the development of a proposal-specific Implementation Plan, which are Steps 1 through 6 of the Phase 4 review process; and (ii) the implementation of the proposal-specific Implementation Plan, which is Step 7 of the Phase 4 review process. The proponent shall draft an Implementation Plan for UH’s review and approval. The draft Implementation Plan shall include the proposal’s scope, schedule, budget, and long-term operation and maintenance plan. The draft Implementation Plan shall be proposal specific, but should consider the following topics:

- Roles and responsibilities.
- Anticipated disclosures, approvals, and permits triggered.
- Points of UH/CMS review throughout disclosure, approvals, and permit process.
- Membership/makeup of a proposal-specific Phase 4 review committee.
- Procedure to be followed at each point of UH/CMS review.
- Schedule and review period durations.
- Other proposal specific considerations.

Once the proponent has provided the draft Implementation Plan, CMS and its advisory bodies will review and consider it as outlined in Figure 6-5 (Steps 2 through 6), which is similar to the Phase 2 review process. If the resulting Implementation Plan is acceptable to UH and the proposal proponent, the proponent will lead the implementation of that plan. If the proposal proponent or UH find the Implementation Plan unacceptable, the proposal proponent may modify their proposal and return to Step 1 of the Phase 4, Type C proposal review process.

The Implementation Plan should include a proposal-specific Phase 4 review committee that consists of members of the CMS advisory bodies and community members that are knowledgeable in various aspects of the proposal and its potential impacts. It is further anticipated that this
committee will review proposal materials, such as design drawings, environmental disclosure documents, and permit applications as the planning and review process progresses.

**Figure 6-5: Phase 4 Type C Proposal Review Flowchart**

1. **Proponent provides additional proposal information and a draft Implementation Plan.**

2. **CMS prepares staff report.**

3. **CMS ED reviews and approves staff report and authorizes proceeding to Step 4.**

4. **KKM and EC review and comment** on proposal information, draft Implementation Plan, and CMS report.

5. **MKMB reviews** proposal information, draft Implementation Plan, KKM input, EC input, and public input, then provides a recommendation.

6. **CMS ED (or UH Hilo Chancellor designee) and reviews all available information and advice then approves or denies the Implementation Plan.**

7. **Proponent leads, and UH/CMS supports, the execution of the Implementation Plan, including the proposal-specific Phase 4 review process.**
   - Phase 4 review committee
   - Disclosure documents
   - Necessary approvals
   - Permit applications (proponent is applicant, UH signs as landowner, if necessary)
   - Land agreements/right-of-entry which may require UH BOR approval and BLNR consent.
   - Etc.

Source: UH
I suggest explicitly including avenues for wider community input, in particular the Hawaiian indigenous community, as part of any Phase 4, Type C Proposal Reviews in Step 4 of the review process. I do not consider review and comments by KKM to be sufficient in this matter. This should be of particular importance given the local community's deteriorating confidence in UH as a steward of Mauna Kea due to the controversy surrounding the development of TMT.

If this document is called "listen to the voice" and there is no listed community input here, whose voice is being listened to here?

Where does the consent and opinion of the Native Hawaiian people come in? There needs to be engagement, review, consideration and consent given by the Native Hawaiian people before any proposal moves forward.
6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE

The following subsections provide an overview of the review process for each project type.

6.6.1 TYPE A

Type A proposals are expected to have negligible potential for adverse impacts and are anticipated not to require a Site Plan Approval or CDUP. Between 2000 and 2020, most proposals at existing facilities on UH Maunakea Lands were classified as similar to Type A projects because they tend to consist of efforts to keep existing facilities operating efficiently and safely instead of structural modifications. This trend is expected to continue in the coming years. Proposals involving the following may be considered Type A proposals:

- Repairs to existing equipment and structures.
- Like-to-like replacement of component external parts.
- Painting and resurfacing.
- Small new external equipment additions (e.g., cameras and weather sensors mounted on existing facilities, roof-mounted solar panels, and signs).
- The installation and operation of small data gathering instruments for periods of measured in months.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3). Given the small scale of these proposals and their negligible potential for adverse impact, the review process would be relatively short, on the order of 2 to 4 months. Figure 6-6 provides an overview of the process and timeline for Type A proposals.

Despite being Type A, additional permits and approvals may be required before these projects are implemented. Such permits and approvals are beyond the scope of the UH project review process outlined in this Master Plan and may include, but are not limited to, CDUP and building permits. The proposing party must obtain all required approvals and permits, if any, prior to implementing the project.

6.6.2 TYPE B

Type B proposals are those that are likely to require Site Plan Approvals from DLNR. Between 2000 and 2020, a small proportion of the proposals at existing facilities, generally no more than one or two per year across the 13 astronomy facilities, would fit in the category of Type B projects. Proposals involving the following may be considered Type B proposals:

- Modifications to an existing facility that involve a noticeable change in its outward appearance (e.g., a change to a façade or building addition).

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37 The terms Type A, Type B, and Type C were not used prior to this Master Plan. The vast majority of projects at existing facilities were characterized as a “minimal” project over the last 20 years.

38 The term Type B was not in use before this Master Plan. A small portion of the projects were characterized as “minor” projects.
#017

Posted by HiloResident on 10/06/2021 at 2:30pm [Comment ID: 125]
Type: Suggestion
Agree: 0, Disagree: 0
Suggest being more specific, like less than 1 year, if that is the intent. All durations of time can be measured in months, whether it's 0.0002 months or 10,000 months.

#018

Posted by HiloResident on 10/06/2021 at 2:27pm [Comment ID: 124]
Type: Suggestion
Agree: 0, Disagree: 0
Does this type A proposal include repainting of telescope facilities to blend into the landscape?
• Reconstruction of infrastructure that involves ground disturbance.
• Decommissioning projects that proceed with the intent of complete removal and full restoration and the incorporation of adaptive management lessons learned from previous decommissioning project.
• The installation and operation of data gathering instruments for periods of time measured in single-digit years.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then complete a UH Phase 3 review (Section 6.4) prior to proceeding with other disclosure, approval, and permit processes. Figure 6-7 provides an overview of the process and timeline for Type B proposals. It is anticipated that a Type B proposal would take from 8 months to 1.5 years to complete the UH review process if the proposal proponent provides requested information and a draft Site Plan Approval application within 3 months of the completion of Phase 2.

At the conclusion of the Type B process, the proposal proponent is responsible for obtaining all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, Site Plan Approval, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B project.

6.6.3 TYPE C

Type C proposals are likely to require departmental (e.g., DLNR) or board (e.g., BLNR) CDUPs. It is anticipated that Type 3 projects will be rare during the term of this Master Plan. Proposals involving the following may be considered Type C proposals:
• Astronomy site modification.
• Astronomy site recycling.
• Decommissioning projects that do not intend a complete removal and full restoration.
• Proposals that require large volumes of earth movement.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then, unlike other proposal types, gain UH acceptance of a proposal-specific Implementation Plan, which the proponent will then implement (Section 6.5). Figure 6-8 provides an overview of the process and timeline for Type C proposals. It is anticipated that Type C proposals would take from 9 months to 1.5 years to achieve approval of their proposal-specific Implementation Plan if the proponent develops a thorough Implementation Plan within three months of completing phase 2.

Although it is the proponent’s responsibility to comply with all applicable rules and regulations, obtain necessary approvals, and acquire necessary permits, UH will remain engaged throughout the Implementation Plan so that the proponent can benefit from UH’s knowledge and experience and the input from those on the Phase 4 review committee.
Figure 6-6: Review Flowchart and Timeline: Type A Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

Phase 2: Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?
- Type A
  - Type A, UH review complete (vast majority or proposals over last 20 years)
  - Conditions agreeable to both CMS and Proponent?
    - Yes
      - Proponent obtains necessary permits and approvals
        - Proponent is applicant
        - UH signs as landowner where required
        - Proponent consults with UH as appropriate
    - No
      - This chart does not apply (see Figure 6-7 or Figure 6-8 for Type B and Type C, respectively)

- No Type A
  - This chart does not apply (proposal rejected as submitted)

Period of time dependent on Proponent and permitting agencies (UH does not play an active role)

All permits, approvals, and agreements obtained?

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Source: UH
You are omitting a guarantee that community input will be part of each phase. The balance of power is still skewed in UH’s favor with too many checkpoints where community input will be screened to not be considered in final steps of decision-making.
Figure 6-7: Review Flowchart and Timeline: Type B Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

No: Proposal rejected as submitted
Yes:

Phase 2: First Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Not Type B: This chart does not apply
Type B: Proceed with Phase 3 review

Phase 3: Type B Proposal Review (see Figure 6-4)
- Proponent provides more information and draft Site Plan Approval application
- CMS reviews, discusses with proponent
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides

CDUA and UH conditions agreeable to both CMS and Proponent?

No:

Proponent obtains necessary permits and approvals
- Proponent is applicant
- UH signs as landowner where required
- Proponent consults with UH as appropriate

All permits, approvals, and agreements obtained?

No: Proponent cannot implement project per plans, UH conditions, and approval/permit conditions
Yes:

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Source: UH
Figure 6-8: Review Flowchart and Timeline: Type C Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

- Phase 1: Screening and Assessment (see Figure 6.1)
  - CMS reviews and consults with others as warranted
  - CMS ED (or UH Hilo Chancellor designee) decides

  Is proposal appropriate for UH Maunakea Lands?

  - Yes
    - Type C proposal
    - Proceed with Phase 4 review

  - No
    - Proposal rejected as submitted

- Phase 2: First Review (see Figure 6.2)
  - CMS reviews and discusses with DLNR
  - KKM and EC review/comment
  - MKMB advises
  - CMS ED (or UH Hilo Chancellor designee) decides

  What Type is the proposal?

  - Type C
    - Type C, proceed with Phase 4 review
  - Not Type C
    - This chart does not apply

- Phase 4: Type C Proposal Review, steps 1 through 6 (see Figure 6.5)
  - Proponent provides additional proposal information and an Implementation Plan with proposal-specific Phase 4 review process
  - KAM and EC review/comment on plan
  - MKMB advises
  - CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides

  Implementation Plan accepted?

  - Yes
    - Proponent can implement project per plans, UH conditions, and approval/permit conditions

  - No
    - Proponent implements the Implementation Plan
      - Release documents
      - Necessary approvals
      - Permit applications
      - Land agreements/right-of-entry which may require approval of UH BOR and consent of BLNR
      - Etc.

  All permits, approvals, and agreements obtained?

  - Yes
    - Proponent can implement project per plans, UH conditions, and approval/permit conditions

  - No

Source: UH
#020

Posted by Helaakaiminaauao on 09/12/2021 at 1:10pm [Comment ID: 29]

Agree: 0, Disagree: 0

Good to have a specific flowplan like this but I hope it doesn't make everything slower

#021

Posted by drkthomp on 10/25/2021 at 9:14pm [Comment ID: 361]

Agree: 0, Disagree: 0

Somewhere is this review process should explicitly include community input, especially in line with "listening to the voice". Seems contrary to stated values.

#022

Posted by Cassidy Bennett on 10/25/2021 at 1:52pm [Comment ID: 312]

Type: Correction

Agree: 0, Disagree: 0

No community input is listed specifically in this part of the flowchart.
7 DESIGN GUIDELINES

This chapter provides guidelines for astronomy facilities in the MKSR, certain other facilities in the upper slopes of Maunakea, and structures in Halepōhaku. The purpose of these guidelines is to minimize potential adverse effects, apply lessons learned to date, and encourage consistency among the current and future land uses. UH will be actively evaluating project designs and specifications from initial concept through final design. This will be true whether a project originates within UH or is proposed by a sub-lessee or other 3rd party.

These design guidelines apply to all structures that will remain on the site once construction activities are complete; they do not apply to temporary items that are only present at the site during construction. For example, while the guidelines discourage the use of fences, during the construction phase, temporary chain-link fencing may be used to delineate and secure the construction site.

7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS

The following specific guidance regarding the management of native excavated material and imported construction material should be followed by all proposed projects within the UH Maunakea Lands unless a proponent demonstrates a compelling reason for an exception and that incorporates community input via the CMS advisory groups regarding the exception.

7.1.1 MANAGEMENT OF NATIVE MATERIALS

Excavated native rock and soil material should be managed (i.e., removed and stockpiled) in a way that allows the site to be restored as nearly as possible to its original condition when the facility is decommissioned. Accordingly:

- The amount of native rock material disturbed by a project should be kept to a minimum consistent with the design requirements of the facility.
- Native material should not be crushed, or otherwise altered, more than necessary to move it to a stockpile or amended to the point where it cannot readily be used during the site restoration process unless it consists of massive lava flows and will be used as on-site fill material after it is crushed.
- All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.

7.1.2 IMPORT OF AGGREGATE MATERIALS

The importing of aggregate materials shall be kept to a minimum and shall not occur unless material already present in the project area is demonstrably insufficient or of unacceptable quality. Any imported aggregate material must be removed to the maximum extent practicable when the facility is decommissioned.
Could you define what is meant by native material?
Where imported aggregate material must be used, it shall not be mixed with native material or be visible at the ground surface after construction is complete, except in parking areas. Material imported for fill and parking area surfacing shall be consistent with the surrounding native material to the degree possible (i.e., have a color like that of the adjacent lava rock or cinder).

In the case of concrete batching, aggregate materials may be imported to the Batch Plant Staging Area and utilized in the production of concrete. It is required that imported aggregate be used for concrete batching instead of native rock.

7.2 GUIDELINES APPLICABLE TO NEW ASTRONOMY FACILITIES IN THE MKSR

Unlike previous master plans, which envisioned expansion of astronomy uses within the summit region, UH has committed to: (i) removing astronomy uses from some of the astronomy sites on which it is presently authorized (i.e., decommissioning); and (ii) confining new astronomy developments (i.e., modification and recycling projects) to the remaining sites on which astronomy facilities are presently authorized. The design guidelines presented in this section apply only to new or substantially modified facilities; they do not apply to continued operation of existing astronomy facilities where no substantial external changes occur or sites that are decommissioned. The fundamental purposes of the guidelines are to (i) encourage designs and the use of materials that are appropriate to the environment and place, and (ii) minimize the chance that modification or recycling projects will unduly degrade the existing cultural, natural, or astronomical resources present on UH Maunakea Lands while also allowing facility sponsors the flexibility needed to modify and/or upgrade their facilities in ways that will enable them to continue to achieve their intended scientific objectives that the operators are seeking.

7.2.1 ALL IMPROVEMENTS TO REMAIN WITHIN SUBJECT ASTRONOMY SITE

Any new astronomy developments (modifications or recycling) that may occur over the term of this Master Plan will take place on the defined astronomy sites that remain available for consideration. One possible exception involves the potential combination of Astronomy Sites 7 and 8 in a specific situation, which is detailed in Part 2, Section 4.3.4.3, of this Master Plan.

Limited grading (i.e., the removal or addition of material that alters topography) beyond the defined astronomy site boundaries may occur only if and where off-site grading occurred when the facility was developed. For instance, where associated driveways and utility connections are not within the astronomy site, grading and other work needed to maintain those appurtenant facilities and build the proposed project may occur. Similarly, limited excavation within previously disturbed areas needed to accommodate complex-level underground infrastructure such as has been proposed for the conceptual OHANA Project (Part 2, Section 4.3.4.1), would be allowed. Past side-casting of material does not qualify an area as having been previously graded or disturbed; only designed cut and fill qualifies an area as previously graded or disturbed.

39 In the case of the SMA site, which accommodates dispersed and mobile facilities, no new grading in the non-exclusive easement area other than that needed to maintain existing facilities will be allowed.
7.2.2 **DOME HEIGHT**

UH foresees the possibility that it may receive between one and three facility modification or site recycling requests that involve an increase in the dome height during the term of this Master Plan. In all cases, the maximum height of new astronomy facility domes is to be minimized (including by utilizing improvements in technology, materials, and engineering), and project proponents must demonstrate to the satisfaction of UH that whatever dome height they propose is essential to the facilities’ satisfactory performance and/or to meet the purpose and need of the project. In addition, UH will only consider project proposals where the proposed heights are in accord with the limits described in this section. The limits have been developed to minimize the potential for a new significant adverse visual impact over the life of this Master Plan.

A new dome may not exceed the height of the domes (as measured from the ground on which they are constructed) on nearby/adjacent astronomy facilities that house similarly-sized and similar types of telescopes. A new dome may not appear higher in the sky than does Gemini when viewed from the benchmark location in Hilo\(^{40}\) (Figure 7-1) or Subaru when viewed from the benchmark location in Waimea\(^{41}\) (Figure 7-2).

A modification or recycling project could substantially increase the height of the new facility relative to the existing facility on the site. For example, Astronomy Site 4 is now home to a 3.2-meter telescope (IRTF) in a dome that reaches 66 feet above existing grade. A recycling of that site to accommodate an 8- or 10-meter telescope may result in a dome height similar to nearby/adjacent astronomy facilities with that size telescope (e.g., Keck and Subaru), resulting in a dome on Astronomy Site 4 that extends from ~110 to ~150 feet above grade. However, not all modification and recycling proposals will likely substantially increase the height of the new facility. For example, based on recent conceptual designs, the MSE project would not substantially increase the height astronomy facility on Astronomy Site 5 (currently CFHT).

**Figure 7-1: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Hilo**

![Figure 7-1](image_url)

Notes: Waiakea Peninsula at Liliʻuokalani Park and Garden is the benchmark location in Hilo. AS = Astronomy Site
Source: PSI

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40 Waiakea Peninsula at Liliʻuokalani Park and Garden is the benchmark location in Hilo.
41 The corner of Lindsey Road and Māmalahoa Highway is the benchmark location in Waimea.
This guideline is written with the idea that "all" viewers dislike seeing the telescopes. It should be acknowledged that some individuals enjoy the view of the telescopes as an awe-inspiring reminder of the complex search for truth and knowledge and the ability of humans to create such benign capacity. These viewers see the telescopes as an enhancement, a birth of children from the mauna, and not an insult or degradation.
Allowing height increases consistent with the limitations in this section minimizes the potential for new significant visual impacts. It also means that the tallest current facilities, as viewed from the benchmark locations (i.e., Gemini, and Subaru), cannot increase their dome heights.

### 7.2.3 Height of Structures Other than Domes

In general, any new structure other than domes (e.g., support buildings) constructed on an astronomy site may extend no more than 25 feet above grade. However, exceptions may be made allowing portions to reach up to 40 feet above grade if a user can demonstrate to the satisfaction of UH that: (i) a height greater than 25 feet is essential to the satisfactory performance of the facility, or (ii) the project’s purpose and need requires technical components or facilities that require it to exceed a height of 25 feet. These criteria are established to limit visual impacts and the size of mountaintop facilities; it is set at 25 feet because that height allows for a two-level structure and existing facilities generally do not exceed that height.

Equipment that can readily be placed underground (e.g., water tank) should be so-located to minimize the extent of above-ground structures provided the project can comply with the management of native materials guideline. This does not apply to fuel storage tanks; see Section 7.2.10 below. In general, bulky exterior equipment that cannot be placed underground must be limited to a height of no more than 10 feet above ground level.\(^{42}\) However, if a user can demonstrate to the satisfaction of UH that this is not technically feasible, then the equipment may be up to 20 feet above ground level.

\(^{42}\) This limit applies to bulky equipment like tanks, air handlers, and the like. It does not apply to less bulky equipment such as weather stations and sky cameras that may need to be higher to adequately support operations.
7.2.4 LIMIT ON OVERALL BULK OF FACILITIES ON ASTRONOMY SITES

With technological improvements, an increase in remote observing and robotic operations, and design advancements, UH anticipates that the overall size of astronomy facilities, in proportion to the size of their primary mirror, will continue to decrease. The structures that are constructed as part of any modification or recycling project shall be as compact as is deemed reasonable and safe while achieving the purpose and need of the project.

7.2.5 COLOR OF FACILITIES

Color affects both the visibility and the thermal properties of the facilities. Because of this, in choosing colors for facilities, designers should select ones that minimize the visual impact while also helping to manage the thermal loads on astronomy facilities. Accordingly, based on currently available information regarding available coatings and construction materials, all modification and recycling projects are expected to conform with the guidelines in the following subsections. UH may periodically update these guidelines if new products or materials that are more effective become available.

7.2.5.1 Color of Dome and Dome Support Structures

Based on the information that is currently available, domes and dome support structures should adhere to the following color guidelines.

- The rotating dome and shutter should have a reflective aluminum-like coating;
- The base of the dome should be lava- or cinder-colored; and
- All other visible surfaces, including concrete, should be colored with dark earth tones, lava, or cinder color.

7.2.5.2 Support Facilities and Equipment Color

Based on the information that is currently available, support facilities and equipment structures/housings should adhere to the following color guidelines.

- The sides and rooftops of all support facilities should be lava- or cinder-colored to match the adjacent surface color; and
- Utility pull boxes and other external equipment should be lava- or cinder-colored to match the surrounding landscape. No raw, uncolored concrete surfaces should be used.

7.2.6 SNOW AND ICE CONSIDERATIONS

Given the snow and ice that is present in the summit region during a substantial portion of the year, all structures and points of ingress/egress should be designed in such a way as to: (i) facilitate access for snow removal equipment; (ii) minimize hazards related to falling snow and ice; and (iii)
#025

Posted by **Carl Shaad** on **09/14/2021** at **10:39am** [Comment ID: 46]

Type: Suggestion  
Agree: 0, Disagree: 0  
A reflective aluminum color is an extraordinary visual distraction affecting the natural beauty of Mauna Kea. A huge metallic dome on top of a mountain may be a thing of beauty to many astronomers, but to the rest of us it just looks like an ugly pimple on the end of one's nose. I'm sure the scientific community can devise a different color scheme that provides the required amount of "cooling" for the equipment. If not, I know of some very talented theme park painting experts that can effectively make visual obstructions blend in with the surroundings. PLEASE CONSIDER A LESS OBTRUSIVE COLOR.

#026

Posted by **Carl Shaad** on **09/14/2021** at **10:57am** [Comment ID: 47]

Type: Suggestion  
Agree: 0, Disagree: 0  
CHANGE ALL REFERENCES OF "SHOULD" to "MUST" IN SECTION 7.2.5. The choice of colors must not be optional, and must not be arbitrarily chosen by the builder. Furthermore, due to the immense size of many of these structures, a solid monochromic color does not provide an effective camouflage. The requirement should be for a drab color, mottled to imitate the natural surroundings as much as possible. A talented facade painter can achieve this effect by blending earth-tone colors to look very much like the actual lava field surrounding the facility.  
DO NOT ALLOW A MONOCHROMIC PAINT JOB ON ANY EXTERIOR PORTION OF A FACILITY THAT WILL BE PUBLICALLY VISIBLE. FACILITIES MUST BE DESIGNED TO VISUALLY BLEND IN WITH THE SURROUNDINGS, EFFECTIVELY "DISAPPEARING" WHEN VIEWED FROM A DISTANCE.

#027

Posted by **HiloResident** on **10/06/2021** at **12:52pm** [Comment ID: 121]

Type: Suggestion  
Agree: 0, Disagree: 0  
It would be helpful if there was a blanket approval for this preferred color of the dome and structure for all telescopes. My understanding is that it is easier to repaint the existing facilities the same color that they are now, than to repaint them to these 'better' colors, simply because of the extensive permitting process for these changes to occur.

#028

Posted by **Doug Arnott** on **09/12/2021** at **2:53pm** [Comment ID: 32]

Type: Suggestion  
Agree: 0, Disagree: 0
Due to us having a flat roof in Hilo for 30 years we have gathered a lot of actual experience on roof color and heat attraction. Aluminum and chrome are heat attractants...touch your bumper when car is in the sun. Superwhite colors like GACO roof coating are cold to bare feet on hot days as was White Sands National Park composed of Gypsum....there are new coatings touted in Solar Photovoltaic news that are even more efficient at repelling the suns heat. It seems unwise to specify a color that is NOT the best for the job which is purest white possible.
avoid/minimize building geometry, walls, and overhangs that are likely to produce snowdrifts that inhibit ingress/egress.

### 7.2.7 Landscape Plantings

No landscape plantings of any type are allowed in the MKSR.

### 7.2.8 Parking

Parking areas on modified and/or recycled astronomy sites should be kept to the smallest size consistent with the safe and efficient operation and maintenance of the facility which they support while complying with applicable rules or regulations, including the Americans with Disabilities Act of 1990 (ADA). They should also be designed with sensitivity to existing topographic contours so that they minimize the need for earthwork, blend in with the natural landforms, and do not stand out unnecessarily from their surroundings. Parking surfaces should not be paved and should match the surrounding landscape, as discussed in 7.1.2.44

### 7.2.9 Fences, Walls, and Barriers

Fences, walls, and barriers should be used only where needed to protect human health and safety and, in all cases, should be designed to fit as unobtrusively as practical into the existing terrain. Where possible, fence and wall alignments should follow natural contours rather than maintaining a straight alignment without a specific operational need. The use of locally available material is required unless it is incapable of fulfilling the required function. No non-engineered material from outside of the Maunakea summit region shall be used.

Rock walls, including concrete walls with rock veneer, should be used in lieu of fences unless extraordinary circumstances make that impractical. The height of such walls should not exceed 42-inches above ground surface unless: (i) they serve as retaining walls, or (ii) are used to shield equipment, and (iii) do not affect view planes substantially more than the equipment would if the wall were not present.

Like rock walls, barriers, including guardrails, should be designed to minimize visual impact. Accordingly, they should not exceed a height of 42-inches above ground and should have colors and finished surfaces consistent with the surrounding landscape. Guardrails should be wire style, like existing guardrails in the summit region.

### 7.2.10 Fuel System and Hazardous Materials

New facilities on recycled sites that include bulk petroleum fuel storage for emergency generators will utilize only above-ground, double-walled fuel storage tanks and pipelines with spill containment systems and leak detection. If fuel facilities are relocated or modified as part of an astronomy facility’s major modification project, the fuel systems should use above-ground, double-walled fuel storage infrastructure.

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44 It is expected that loading zones may need to be paved; however, paving should be limited.
Modified and new facilities will be designed to minimize the use of hazardous materials to the maximum extent feasible.

### 7.2.11 WASTEWATER SYSTEM

New facilities in the MKSR (i.e., astronomy facilities constructed on recycled sites) will be required to have zero-discharge wastewater systems. Facilities that continue operating beyond 2033 will also be converted to zero-discharge wastewater systems.

### 7.2.12 SOUND GENERATION

Heating, ventilation, and air conditioning (HVAC) and other non-mobile equipment with the potential to generate objectionable noise shall be designed and operated in a manner that limits the amount of sound that emanates from it. This means that, at a minimum, it should comply with the provisions of HAR Chapter 11-46, as applicable.

### 7.2.13 MAXIMIZE EXTENT OF REMOTE OPERATION

To the extent that it is technically, operationally, and economically feasible, any modified or new facilities should be designed to be operated remotely and/or robotically, and operators should make as full use of these features as is practicable.

### 7.2.14 EXCEPTIONS TO THE GUIDELINES FOR ASTRONOMICAL FACILITIES

UH may allow exceptions to any of the design guidelines in Chapter 7, except those related to the number of astronomy sites and the height and bulk of facilities on them. For this to occur, the facility designer/operator must demonstrate, to UH’s satisfaction, that strict adherence to the guidelines is likely to prevent the satisfactory performance of the facility or prevent the project from achieving its purpose and need. The facility operator will also need to demonstrate that the proposed exceptions will not result in significant adverse effects.

Requests for exceptions may be approved if they are minor in nature and if the proposed project is otherwise consistent with the overall goals and objectives of this Master Plan. UH will make decisions regarding requested exceptions only after it receives and evaluates input from the Phase 4 proposal review committee, MKMB, and Kahu Kū Mauna.

### 7.3 GUIDELINES APPLICABLE TO OTHER FACILITIES AND USES IN THE MKSR

Other facilities and uses the UH foresees potentially being developed in the MKSR are limited in scope. Examples of other potential facilities and land uses over the life of this Master Plan include: (i) fencing areas of high native biodiversity, (ii) public restrooms and shelters, (iii) public parking, (iv) data collection facilities or instruments, and (v) signs. Such proposed projects will be subject only to the design guidelines contained in Section 7.1 and whatever conditions DLNR/BLNR place on them during the CDUP approval process.

Those designing non-astronomy facilities should consider the guidelines for astronomy facilities in Section 7.2 and seek to comply with them. For instance, non-astronomy facilities should, to the
extent possible: (i) be designed like astronomy support facilities and astronomy equipment and not exceed 25 and 10 feet in height, respectively; (ii) have flat or low-slope roofs; (iii) use lava or cinder colors (no untreated concrete); and (iv) have zero-discharge waste systems.

7.4 DESIGN GUIDELINES FOR HALEPÔHAKU (TMK PARCEL 12)

This Master Plan envisions the construction of very few entirely new facilities within Halepôhaku. To the extent that existing facilities are modified, or entirely new facilities are constructed, their scale, architectural style, and design motifs should be consistent with those already present within Halepôhaku’s different areas. More specifically:

- Renovations of existing facilities should seek to maintain their present size, with no increase in roofed area allowed unless specifically approved by the T3PRC.
- In general, any new facility constructed at Halepôhaku should have a scale like that of the facilities already present. In quantitative terms this means: (i) the height of new facilities should not exceed two stories and 30 feet above the finished grade and, like the existing dormitories, be designed to partially disguise that there is a second level; and (ii) total aggregate floor area of the structures present will increase by no more than 30 percent over the amount now present. The only exception to this is at the VIS, should it be established that a larger increase is necessary to improve visitor education and/or the visitor experience.
- The colors, textures, and materials that are used for any new construction should be consistent with those used for the existing structures that are near them, (e.g., dark earthen tones for all walls and roofs and A/C pavement and/or dark-colored concrete for all paving).
- All new plantings should be done using native species adapted to the māmane-dominated subalpine woodlands environment in which Halepôhaku is situated and follow guidance in the CMP.
- To minimize erosion, low impact development practices should be employed.
- Any new fences, walls, and barriers should be designed and constructed in accordance with the guidelines for those in the summit area laid out in Section 7.2.9.

Because of the uncertainty regarding the need for new facilities at Halepôhaku related to managed access and visitor experience, these design guidelines are general in nature.

7.5 GUIDELINES APPLICABLE TO ROADWAY, UTILITY DEVELOPMENT, AND SIGNAGE: ALL AREAS

As emphasized throughout this Master Plan, little new development is envisioned over its 20-year term. Because of that, only a small amount of roadway, utility, and other work is envisioned. The design of such improvements, as needed, will be in keeping with similar existing facilities, with changes made only where needed to comply with new regulatory requirements or then-current codes.
There is no doubt the existing visitor center is inadequate in size and capacity to fulfill the need for enhanced visitor education and enjoyment, both cultural and scientific.

I see no uncertainty regarding the need. Pre-pandemic visitor experiences demonstrated the need.
7.5.1 **ROADWAYS**

To the extent practicable, roadway maintenance, repairs, and restoration will be accomplished without the use of extensive cut slopes or fill and with minimal change to the road right-of-way. Road improvements will be designed to maintain the character and functionality of the existing roads. Road capacity will not be increased unless necessary to address access issues and public safety. Wire style guardrails, like existing guardrails in the summit region, will continue to be used.

7.5.2 **UTILITIES**

Due to radio frequency interference concerns, limited telecommunication services are present in the summit region. These services pre-date radio astronomy on Maunakea and are limited to emergency response purposes, but the enhanced communications capabilities that will be needed during the term of this Master Plan can be provided simply by upgrading equipment within existing buildings.

The existing electrical service is adequate for all the existing facilities. The upgrades to the electrical power system needed to accommodate the development of the TMT project on Astronomy Site 13 have been permitted by the BLNR as part of CDUP-3568, and it is assumed that they will be installed when that facility is constructed. All power lines will be placed underground. Accessory utility structures will be screened or designed to blend into the natural terrain using surface treatments and/or finish colors.

7.5.3 **SIGNAGE**

The *Maunakea Sign Plan* was developed in accordance with Management Action EO-4 of the CMP. The plan provides guidance for the placing and maintenance of permanent and temporary external signs on UH Managed Lands on Maunakea. This Master Plan is intended to ensure that signage does not exceed the lowest level necessary and to comply with the CMS policies, Conservation District Rules, and other applicable laws and policies on signage. To help implement the signage plan, CMS maintains an inventory of all signs. The inventory, which includes all permanent signs, includes the following for each sign: (i) a photograph of the sign; (ii) the location of the sign (GPS coordinates); and (iii) the category of the sign as identified in the Sign Plan.

The *Maunakea Sign Plan* establishes guidelines for the following broad categories:

- **Traffic Control Devices.** The plan calls for signs, markings, and other devices used to regulate, warn, or guide traffic on roads or highways to follow the guidance contained in the latest edition of the *Manual on Uniform Traffic Control Devices* (MUTCD).\(^{45}\)
- **“Do Not” Signage.** Signage in this category provides information on prohibited activities such as alcohol consumption, tampering with historical sites, littering, or hiking off-trail.

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\(^{45}\) When MUTCD guidance is unavailable or does not address circumstances on Maunakea, the U.S. Forest Service “Sign and Poster Guidelines for the Forest Service” standards are to be consulted.
• **Health and Safety Signage.** This category includes signage in the summit area to reinforce awareness of safety issues and hazards (e.g., speeding, using 4-wheel drive and low gear, underage children, pregnant women and persons in poor health, proper clothing, etc.). Health and safety signs or information posters at the VIS are in English, Hawaiian, and Japanese languages and include universal symbols for health and safety issues.

• **Interpretive Signs.** This category includes: (i) trail markers for primary trails; (ii) signage alerting people to areas of sensitive cultural and natural resources and instructing them to stay on trails; and (iii) educational signage providing information to the visitor on what they are seeing.

The Maunakea Sign Plan calls for signs to be made from materials that can withstand severe weather (e.g., wind, snow, sun) and to use traditional Hawaiian place names and, whenever possible, include the Hawaiian language along with English. It also contains specific guidance for any sign that directly or indirectly identifies a cultural site, providing that such signs will be considered only after consultation with the Kahu Kū Mauna Council and the State Historic Preservation Division (SHPD).

The Maunakea Sign Plan includes several other relevant provisions, including requirements that:

- Signs be designed to convey a simple, clear message that is appropriate to the user setting.
- Signs, even temporary in nature, be professionally printed and installed.
- Unnecessary signs be removed.
- All signs be designed and installed to withstand sustained 120 mph winds, be resistant to fading from intense solar radiation, and have a finish that is resistant to the abrasion caused by wind-blown cinder.
- Visitor information signs have a brown background with white or yellow lettering and use pictograms when possible, excluding interpretive and wayside exhibits.

Finally, the plan provides detailed guidance regarding the installation and maintenance of signage within the management area. Specific provisions include the following:

- A requirement that no permanent signs be installed without prior approval by CMS (and in some cases DLNR).
- A ban on the routine installation and use of temporary barriers and signs except for emergencies or unanticipated public safety purposes.
- Diligent maintenance of all installed signage. This includes: (i) regular inspection of all signs; (ii) speedy repair or replacement of vandalized, damaged, or missing signs; (iii) keeping signs free of vegetation to maintain visibility; (iv) reviewing sign content annually to ensure continued relevance and accuracy; and (v) reuse of materials from obsolete, damaged, or surplus signs whenever possible.

In addition to these Maunakea Sign Plan guidelines, signs should be bilingual (i.e., English and Hawaiian) and incorporate iconography to the extent appropriate. This especially applies to the interpretive signs.
7.6  EXEMPT FACILITIES

The construction of structures intended and used for cultural practices, e.g. ahu and other pōhaku structures resembling historic sites, may be subject to Conservation District Rules and other land use regulations. Components of the CMP address cultural practices, but no design guidelines in this Master Plan apply to such structures or facilities.
8 MASTER PLAN ADOPTION, EFFECTIVENESS, AND FUTURE AMENDMENTS

The UH BOR adopts this Master Plan to guide land use decisions by UH in the UH Maunakea Lands. It is intended to provide policy-level guidance and criteria to UH decision-makers. This is not a regulatory document. This Master Plan shall be interpreted and implemented so that it is consistent with applicable laws and agency regulations which shall prevail if there is a conflict.

It is anticipated that this Master Plan will not be amended during its 20-year life because (i) it will not need to be updated as individual projects advance through the project review and approval process and are developed, (ii) it includes, but it not limited to, the land uses most likely to be considered over the life of this Master Plan, and (iii) land uses not specifically identified in this Master Plan can be proposed, approved, and developed under the process adopted in this Master Plan, without amending this Master Plan. If specific terms and procedures require an amendment of this Master Plan, proposed amendments would follow the Type B proposal review process (Section 6.6.2, Figure 6-7) with the amendment proponent serving as proposal proponent. Thereby, the proposed amendment would be considered by the advisory bodies, including KKM, EC, and MKMB, where public input is heard. Approval would advance beyond the CMS ED to the UH Hilo Chancellor, then UH President, and lastly the BOR, where public input is again heard.

This Master Plan replaces and supersedes past plans adopted by UH related to Maunakea, including the *Mauna Kea Science Reserve Master Plan*, adopted by the UH BOR on June 16, 2000.
9 REFERENCES


Hawai‘i Administrative Rules (HAR) § 13-5-2, *Conservation District*.


University of Hawai‘i

Your references seem heavily skewed towards scientific and economic standpoints—where is your scholarship on the social, cultural, and spiritual contexts of this issue?


University of Hawai‘i at Hilo


DRAFT MASTER PLAN FOR THE
UNIVERSITY OF HAWAIʻI MAUNAKEA LANDS
E Ō I KA LEO (LISTEN TO THE VOICE) *

*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

SEPTEMBER 2021
#001

Posted by **pcross** on **10/25/2021** at **9:13am** [Comment ID: 289]

Agree: 0, Disagree: 0

We do not need to add anything more to Mauna Kea, There are enough people fighting against it so why do we not listen to them and protect this sacred Mauna.

#002

Posted by **Amber Needham** on **10/26/2021** at **9:52am** [Comment ID: 426]

*Type: Suggestion*

Agree: 0, Disagree: 0

Master Plan testimony

The new UH Mauna Kea Master Plan, though thoughtful in some areas including improvements for community use to already existing structures and areas, still proposes the building of the Thirty Meter Telescope (TMT). Today this remains an undesirable, offensive, oppressive and unnecessary construction project for the well-dug-into mountain, myself and tens of thousands of aloha ʻāina who have stood in protest since 2015 and even prior. The modification/recycling of current telescopes is also a red flag for concern because it is not clear what future construction, further impact on landscape, such actions will entail. As a proposal for management, the authors, boards and committees that are in charge of consideration, must realize the intent of management itself —for sustainability—and the proposed collaboration that this plan frequently references. If this plan is approved, UH will not only have again ignored the collaborator’s (community, people of Hawai‘i, especially native Hawaiians) views and concerns, but further disrespected and disengaged with an enormous body of scientists, environmentalists, astronomers, teachers and people of all ages, who are fervently saying “NO” to the building of TMT. A good manager will know when enough is enough. I do not agree with this new master plan and encourage UH to cancel the Thirty Meter Telescope entirely.

#003

Posted by **Diana Radich** on **10/07/2021** at **5:40pm** [Comment ID: 132]

Agree: 0, Disagree: 0

Get the thirty meter telescope built. 70% want it and so let's stop pandering to small groups and do what the majority wants. Also, I was a teacher for 30 years here on the Big Island and we know that the first day of school, you need to show the students who is boss for classroom management. Day 1 shut down protestors and stop wasting all this time and money.

#004

Posted by **Anonymous** on **10/20/2021** at **4:31am** [Comment ID: 204]

*Type: Correction*

Agree: 0, Disagree: 0
The Hawaiian government is corrupt and the gods will have their revenge for this destruction.
APPENDIX A. SUMMARY OF OUTREACH AND CONSULTATION

Summary of Participating Stakeholders

This section summarizes the stakeholders that participated in the review of earlier pre-publication versions of this Master Plan. Their participation typically included (i) reviewing of earlier versions of the entire document, summaries or outlines of the Master Plan, or components of the plan or UH’s governance structure; and (ii) meeting with UH representatives 1 to 3 or more times. Those that participated are summarized in the table below.

Additional stakeholders were contacted and declined to participate. UH also sought to consult with other parties but received no response. Stakeholders and parties who declined or did not respond are not identified.

Stakeholders Who Have Participated to Date

<table>
<thead>
<tr>
<th>UH System</th>
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<tbody>
<tr>
<td>David Lassner, President</td>
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<tr>
<td>Michael Bruno, Provost</td>
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<tr>
<td>Vassilis Syrmos, VP</td>
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<tr>
<td>Hawai‘inui‘kea School of Hawaiian Knowledge, Dr. Jonathan Osorio</td>
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<tr>
<td>UH School of Ocean &amp; Earth Science &amp; Technology, Dr. Donald Thomas</td>
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<tr>
<td>UH School of Travel Industry Management, Dr. Daniel Spencer</td>
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<tr>
<td>UH Hilo Chancellor</td>
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<tr>
<td>UH Hilo Chancellor’s Maunakea Advisory Committee</td>
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<td>Hanakahi Council</td>
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<tr>
<td>UH Hilo Physics &amp; Astronomy Dept.</td>
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<tr>
<td>Some members of Kuali‘i Council</td>
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<td>‘Imiloa</td>
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<td>Scotty Paiva, Rangers</td>
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<tr>
<td>CMS Team</td>
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<td>MKSS Team</td>
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<td>MKMB</td>
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<td>KKM</td>
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<table>
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<tr>
<th>Astronomy Organizations</th>
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<tr>
<td>UH Institute for Astronomy</td>
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<tr>
<td>Canada-France-Hawaii Telescope</td>
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<td>Keck</td>
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<td>UKIRT Observatory</td>
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<td>NASA Infrared Telescope Facility</td>
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<td>Subaru Telescope</td>
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<td>Gemini North</td>
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<td>Very Long Baseline Array</td>
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<tr>
<td>James Clerk Maxwell Telescope</td>
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<td>Submillimeter Array</td>
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<tr>
<td>TMT</td>
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UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.

I trust UH is doing everything in its power to ensure TMT is built as 20% of TMT’s annual $1M lease rent will go to the Office of Hawaiian Affairs for the benefit of the native Hawaiian population it serves. In addition, $250,000 of TMT’s $1M annual contributions to the THINK fund goes to the Pauahi Foundation, which provides college scholarships exclusively for Native Hawaiian students.

Once completed, TMT will expend about $40 million annually in observatory operations and employ about 140 employees. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible.

Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!

Please define the term "Maunakea’s cultural landscape". This term should include both historical cultural landscape and our current cultural cultural landscape.
<table>
<thead>
<tr>
<th><strong>Association of Universities for Research in Astronomy</strong></th>
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<tr>
<td><strong>Elected Representatives</strong></td>
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<tr>
<td>Office of Sen. Schatz</td>
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<td>Office of the Governor</td>
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<td>Rep. Yamane</td>
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<td>Rep. Saiki</td>
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<td>Rep. Tarnas</td>
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<td>Office of the Mayor</td>
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<td><strong>Federal Agencies</strong></td>
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<td>Army PTA</td>
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<td>Hakalau Forest, USFWS</td>
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<td>US Forest Service, Dept. of Agriculture</td>
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<td>NSF</td>
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<td><strong>State Agencies</strong></td>
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<td>DLNR</td>
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<td>Hawai‘i Tourism Authority</td>
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<td>Department of Hawaiian Home Lands</td>
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<td>HDOT</td>
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<td>DLNR-Division of Forestry and Wildlife, Hawaii‘i Island</td>
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<td>Office of Planning</td>
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<td>Mauna Kea Forest Restoration Project</td>
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<td>Mauna Kea Watershed Alliance</td>
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<td>Ahu Moku</td>
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<tr>
<td><strong>Community Members/Organizations</strong></td>
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<tr>
<td>PUEO</td>
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<tr>
<td>Anonymous</td>
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<tr>
<td>Ross Wilson</td>
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<td>Kepa Maly</td>
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<td>Gerald DeMello</td>
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<tr>
<td><strong>Commercial Tour Operators</strong></td>
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<td>Super Vacation Hawai‘i</td>
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<td>Arnott’s Lodge &amp; Hiking Adventures</td>
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<td>Taikobo Hawai‘i</td>
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<td>Mauna Kea Summit Adventures</td>
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<td>Hawaii Forest &amp; Trail</td>
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<td><strong>Visitor, Commerce &amp; Economic Development</strong></td>
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<tr>
<td>Island of HI Visitors Bureau</td>
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<tr>
<td>Japanese Chamber of Commerce</td>
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<tr>
<td>Some members of the Hawai‘i Island Economic Development Board (HIEDB)</td>
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</tbody>
</table>
Adjustments to Master Plan Based on Input Received

The Master Plan has evolved dramatically based on the input received from the stakeholders consulted to date. The following is a summary of some of the more substantial modifications made based on the consultations conducted:

- The Foreword was added.
- The Education Goal and the associated objectives were added (Section 1.4.3) and highlight indigenous learning among other disciplines.
- UH committed to never reusing five of the astronomy sites decommissioned prior to the end of 2033 for astronomy in the future (previously UH had committed to never reusing three of the sites).
- Added that there are limits to the number of decommissioned astronomy sites that UH would consider for the development of non-astronomy facilities. No more than two decommissioned astronomy sites on the summit ridge and one decommissioned astronomy site elsewhere will be considered for non-astronomy facilities such as parking and gathering places.
- UH committed that no professional research astronomy facilities will be proposed at Halepōhaku and that the only telescopes present at Halepōhaku will be the proposed UH Hilo Educational Telescope and portable stargazing telescopes.
- Added a statement that there is some uncertainty regarding whether the TMT project will proceed on Maunakea, and if it does not proceed, this Master Plan will continue to guide UH decisions regarding how to use Astronomy Site 13.
- Adjusted the Phase 1 access management facilities and concept so that, among other things, it includes a kiosk that is staffed during periods of active access management.
- Modified the proposal review process so that, among other things, the UH proposal types are closely aligned with the likely level of Conservation District review and approval the proposal will trigger.
- Clarified the criteria that proposed facilities and developments within UH Maunakea Lands must meet. Added to the criteria that the proposal would need to greatly benefit from the conditions present within the UH Maunakea Lands.
- Added that all facilities within the MKSR will be required to convert to zero-discharge facilities if they are to continue beyond 2033.
- Stated that, beyond its educational purpose, the facilities at Halepōhaku may be available to support conservation actions on Maunakea outside of the UH Maunakea Lands.
I am concerned that this quiet decision was made in response to a small number of stakeholders, and does not represent a balance among the entire population of Hawaii. This decision has economic impacts to the public with a more limited use of the science preserve.
APPENDIX B. SUMMARY OF MISSION, VISION, AND VALUES EXPRESSED IN VARIOUS UH SYSTEM, UH HILO, IFA, AND ‘IMILOA PLAN DOCUMENTS

The following subsections review the mission, vision, and values expressed in plan documents of UH units and programs that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH’s activities on Maunakea.

UH System

As stated in the BOR Policy (RP) 4.201:

“The primary mission [emphasis added] of the university is to provide environments in which faculty, staff and students can discover, examine critically, preserve and transmit the knowledge, wisdom, and values that will help ensure the survival of present and future generations with improvement in the quality of life.

In carrying out that mission, it is the basic purpose [emphasis added] of the university to afford all qualified people of Hawai‘i an equal opportunity for quality college and university education at both undergraduate and graduate levels.

As the only provider of public higher education in Hawai‘i, the university embraces its unique responsibilities to the indigenous people of Hawai‘i and to Hawai‘i’s indigenous language and culture. To fulfill this responsibility, the university ensures active support for the participation of Native Hawaiians at the university and support vigorous programs of study and support for the Hawaiian language, history, and culture.

Within its unique geographical location, the university will serve as a leader in how it stewards the resources of the islands and the world for the benefit of all. The university shall be a global leader and model for the integration of sustainability throughout its teaching, research, operations, and public service. The university recognizes than an important knowledge base in sustainable island systems resides in the indigenous people of Hawai‘i and all those for whom Hawai‘i is home. The university commits to consult with local cultural practitioners and sustainability experts on best practices in sustainable resource allocation and use for the well-being of our communities, our state, and the world. Critical resources include energy, food, water, land and sea as they are integrated with the relationships of family, culture, community, justice, work, and economy in the present and future.

In addition to this overall mission, RP 4.201 also outlines missions for four sub-units within the University: (i) the University of Hawai‘i at Mānoa; (ii) University of Hawai‘i at Hilo; (iii) University of Hawai‘i West O‘ahu; and (iv) University of Hawai‘i Community Colleges. Two of these, the University of Hawai‘i at Hilo and Hilo Community College, are primarily involved in activities related to Maunakea.
RP 4.201 asserts that at “a minimum, the system mission incorporates the vision, purpose, and common values of the university system, emphasizing the fundamental commitment to access and quality.” It emphasizes the importance of respecting and taking advantage of UH’s special advantage and distinction in Hawaiian, Asian, and Pacific affairs. It affirms UH’s commitment to diversity within and among all racial and ethnic groups served by public higher education in Hawai‘i and calls upon the President and the Chancellors to ensure that the unique commitment to Native Hawaiians is fulfilled.\(^{46}\)

RP 4.201, lays out minimum considerations that should be included in separate mission statements for the major units of the University system when presented to the BOR for approval. These considerations are fundamental commitments to the following: (i) access to and the provision of quality education; (ii) special advantage and distinction in Hawaiian, Asian, and Pacific affairs; (iii) diversity within and among all racial and ethnic groups served by public higher education in Hawai‘i; (iv) unique commitment to Native Hawaiians; (v) social, cultural, environmental, and economic sustainability in operations; education, research and service; planning, administration, and engagement; and (vi) cultural and community connections.

**UH Hilo**

The University of Hawai‘i at Hilo’s (UH Hilo) mission statement (as expressed in Annex I to SPC 18/10) states that:

*The University of Hawai‘i at Hilo primary mission is to offer high quality undergraduate liberal arts and professional programs together with selected graduate degree programs where need warrants and the university has strong expertise. Programs at UHH are intended to include both theoretical and applied research and to benefit Hawai‘i Island and the state through resource centers, community partnerships, continuing education, and distance learning programs by using Hawai‘i’s natural and cultural environment as a learning laboratory for teaching, research, and service activities.*

The UH Hilo vision statement is:

*We will be acclaimed as a university community that works together across disciplines and diverse perspectives to prepare student scholars to thrive, compete, innovate and lead in their professional lives. We will engage every student in applied learning that links theory with practice in ways that are*  

\(^{46}\) The policy calls for that commitment to be fulfilled by: (i) providing positive system-wide executive support in the development, implementation, and improvement of programs and services for Native Hawaiians; (ii) encouraging the increased representation of Native Hawaiians at the university; (iii) supporting full participations of Native Hawaiians in all initiatives and programs of the university; (iv) actively soliciting consultation from the Native Hawaiian community and specifically Puko‘a, the system-wide council of Native Hawaiian faculty, staff and students that serves as advisory to the president; (v) providing for and promoting the use of the Hawaiian language within the university; (vi) providing a level of support for the study of Hawaiian language, culture and history within the university that honors, perpetuates and strengthens those disciplines into the future; (vii) encouraging Native Hawaiians to practice their language, culture and other aspects of their traditional customary rights throughout all university campuses and providing Hawaiian environments and facilities for such activities; and (viii) addressing the education needs of Native Hawaiians, the State of Hawai‘i, and the world at large, in the areas of Hawaiian language, culture, and history through outreach.
incorrect character is used for the 'okina in "Hawai'i's"
collaborative with the distinctive natural and cultural environments of Hawai‘i and promotes responsible participation in a global society.\footnote{https://hilo.hawaii.edu/strategicplan/2021-31/vision.php}

The UH Hilo values statement is:

\begin{quote}
We value diversity and strive to be student-focused and relationship-oriented. We seek to become more collaborative, intentional, and innovative. We believe that UH Hilo’s diversity offers strength, but that it is only meaningful if we focus on equity, removing barriers to opportunity, fair treatment, and access for all.\footnote{https://hilo.hawaii.edu/strategicplan/2021-31/clarity.php#core}
\end{quote}

ʻImiloa

Like CMS, ʻImiloa Astronomy Center of Hawai‘i’s (ʻImiloa) is a program organized under the UH Hilo Chancellor. ʻImiloa’s mission is “to honor Maunakea by sharing Hawaiian culture and science to inspire exploration.”\footnote{https://imiloahawaii.org/aboutimiloa}

ʻImiloa’s vision is “ʻImiloa is a place of life-long learning where the power of Hawai‘i’s cultural traditions, its legacy of exploration, and the wonders of astronomy come together to provide inspiration and hope for generations.”\footnote{https://imiloahawaii.org/aboutimiloa}

As expressed on its website (https://imiloahawaii.org/aboutimiloa), “ʻImiloa means to seek far and is the Hawaiian word for both explore and explorer. Through a Hawai‘i lens, ʻImiloa explores the people of Hawai‘i’s place in the genealogy of the universe and continually seeks, learns, and adapts to the islands’ ever-evolving environment that inspires discovery and innovation through the following three core values:

- “Kamaʻāina. We honor our relationship to land, sea, and sky and share this connection through personal and enlightened hospitality.
- “Naʻauao. We steward our collective knowledge and wisdom as provisional resources that illuminate our community today and tomorrow.
- “Hanakahi. We work together, drawing upon individual strengths and talents to harness our collective synergy and advance the mission of ʻImiloa.”

University of Hawai‘i Community College at Hilo

As expressed by the Office of Vice President for Community Colleges,\footnote{http://uhcc.hawaii.edu/ovpcc/mission} the special mission of the UH Community Colleges within the overall mission of the University of Hawai‘i, is to:

\begin{itemize}
\item [47] \footnote{https://hilo.hawaii.edu/strategicplan/2021-31/vision.php}
\item [48] \footnote{https://hilo.hawaii.edu/strategicplan/2021-31/clarity.php#core}
\item [49] \footnote{https://imiloahawaii.org/aboutimiloa}
\item [50] \footnote{https://imiloahawaii.org/aboutimiloa}
\item [51] \footnote{http://uhcc.hawaii.edu/ovpcc/mission}
• Broaden access to postsecondary education in Hawai‘i, regionally, and internationally by providing open-door opportunities for students to enter quality educational programs within their own communities.

• Specialize in the effective teaching of remedial/developmental education, general education, and other introductory liberal arts, pre-professional, and selected baccalaureate courses and programs.

• Provide the trained workforce needed in the State, the region, and internationally by offering occupational, technical, and professional courses and programs which prepare students for immediate employment and career advancement.

• Provide opportunities for personal enrichment, occupational upgrading, and career mobility through credit and non-credit courses and activities.

• Contribute to and stimulate the cultural and intellectual life of the community by providing a forum for the discussion of ideas; by providing leadership, knowledge, problem-solving skills, and general informational services; and by providing opportunities for community members to develop their creativity and appreciate the creative endeavors of others.

• Build upon Hawai‘i’s unique multi-cultural environment and geographic location, through efforts in curriculum development, and productive relationships with international counterparts in Asia and the Pacific in ways that will prepare their students for the global workplace.

**Institute for Astronomy (IfA)**

The Institute for Astronomy (IfA) manages the Haleakalā Observatories on Maui and the Maunakea Observatories on Hawai‘i Island and carries out its own program of fundamental research into the Sun, planets, and stars, as well as interstellar matter, galaxies, and cosmology. The IFa reports to the Office of the Provost at the University of Hawai‘i at Mānoa. It has close links with the UH Mānoa Department of Physics and Astronomy through the astronomy graduate program, and IfA faculty members teach many introductory astronomy courses on the Mānoa Campus.

The IfA’s mission statement is as follows:

> The primary mission of the Institute is the production of the highest possible quality of astronomical research; world leadership in the development of ground- and space-based instrumentation; the development and stewardship of the Mauna Kea and Haleakala Science Reserves; and provision of facilities and professional guidance to graduate students of astronomy to enable them to meet curriculum requirements and to gain hands on experience in current astronomical research techniques.  

Its stated goals are as follows:

---

Currently, how many prospective personnel are interested in this program that are native Hawaiian descent? Why do you consider desecration of land and it’s cultural importance that we need to live less important than this employment opportunities you are promoting? You can pursue your intellectual knowledge without desecrating lands that need to be cared for and not destroyed.
Explore the origin and nature of the Universe, and of the galaxies, stars, planets, and other matter that it contains.

Develop new technologies for use in ground-based and space-based observatories.

Spread the understanding of astronomy through our graduate program, through undergraduate courses, and through public education.53

These goals collectively describe a vision that its work enhances human understanding of the universe and broadens public understanding of the benefits that stem from the research and technological advancements that they contribute to.

CMS Management Functions

The following mission is included in the Comprehensive Management Plan (CMP) approved by the BLNR.

To achieve harmony, balance, and trust in the sustainable management and stewardship of the Mauna Kea Science Reserve through community involvement and programs that protect, preserve, and enhance the natural, cultural and recreational resources of Mauna Kea while providing a world class center dedicated to education, research, and astronomy.

53 http://www.ifa.hawaii.edu/ifa2/goals.shtml
APPENDIX C. BOARD OF REGENTS RESOLUTIONS RELATED TO MAUNAKEA
RESOLUTION

21-02

To Further Act on Items Relating to Maunakea Management and Amend Board of Regents Resolution 19-03

WHEREAS, at a special meeting on November 6, 2019, the Board of Regents (“Board”) adopted Resolution 19-03, To Act on Items Relating to Maunakea Management, which directed University Administration to accomplish certain actions with specified timeframes, including the decommissioning of five (5) observatories; engaging in community outreach; developing historical, environmental, and cultural education programs; incorporating uses by Native Hawaiian cultural practitioners within the Maunakea Master Plan update; working with the Department of Hawaiian Home Lands to improve infrastructure and access to Maunakea; and improving the University of Hawaii’s (“University”) management function, structure, and operations;

WHEREAS, the Board appointed a permitted interaction group to review and investigate proposed changes to the Maunakea Master Plan and Comprehensive Management Plan (collectively, “Plans”), to follow up on the requested actions in Board Resolution 19-03 and identify any other critical issues pertaining to the Plans, and make related findings and recommendations to the Board;

WHEREAS, the Board concurs with the findings and recommendations of the permitted interaction group, and formally expresses and reiterates the University’s commitment to accelerated efforts to strengthen its cultural stewardship of Maunakea, to astronomy as a cornerstone of excellence for the University and a significant contributor to the island and state economies and workforce, to maintaining high quality environmental stewardship of Maunakea, and to advocate for a management structure that is inclusive, efficient, and protective of all resources on Maunakea; and

WHEREAS, the Board recognizes that the University’s proper stewardship of Maunakea is a long-term, complex, and challenging process, having its own timeframe, due in part, to anticipated and unanticipated factors outside of the University’s control; and

WHEREAS, the Board remains firmly committed to accomplish the completion of all outstanding actions set forth in Board Resolution 19-03 at the earliest possible date.

NOW, THEREFORE, BE IT RESOLVED that Administration be directed to take the following actions:

1. Provide progress updates to the Board every six months regarding:
   a. Progress made towards accomplishment of action items set forth in Board Resolution 19-03
   b. The restructuring plan adopted by the Board in August 2020

2. At a future 2021 Board meeting, provide a comprehensive presentation on astronomy in the State as well as on Maunakea, and related academic programs, to be followed by a Board discussion on the role of the University in astronomy in Hawaii and the world.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the timelines for action specified in Board Resolution 19-03 are amended as follows:
University of Hawai‘i Board of Regents

RESOLUTION

1. Two (2) observatory sites known as the Caltech Submillimeter Observatory (CSO) and Hōku Ke‘a Observatory (HKO) shall be decommissioned; assuming no permitting, weather, and access issues the target date for CSO decommissioning is no later than April 30, 2023, and HKO no later than August 31, 2024. For purposes of this resolution, the term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction.

2. To ensure the prompt availability of a teaching telescope for the University of Hawai‘i at Hilo Physics and Astronomy Program, a new educational telescope facility shall be established on already developed land at Hale Pōhaku or elsewhere with a target date for permitting, assuming no legal issues, no later than May 30, 2024, and the project being awarded for construction, subject to funding, no later than November 30, 2024. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

3. In collaboration with the Center for Maunakea Stewardship, the ʻImiloa Astronomy Center shall develop and implement a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by September 30, 2021, with implementation targeted to commence no later than December 31, 2021.

Adopted by the Board of Regents
University of Hawai‘i
May 20, 2021
To Act on Items Relating to Maunakea Management

WHEREAS, the Board of Regents believes and acknowledges that Maunakea holds a special and important place in the history, culture, and hearts of the peoples of Native Hawaiian ancestry and all of Hawaii; and

WHEREAS, Maunakea has become a symbol of Native Hawaiian self-determination; and

WHEREAS, the Board of Regents recognizes that the University of Hawai‘i (“University”) has been criticized for past and present management of Maunakea; and

WHEREAS, the Board of Regents realizes that any mismanagement of Maunakea is hurtful and disrespectful to the sanctity and inviolability of this place to Native Hawaiians and others; and

WHEREAS, the Board of Regents in response to past criticisms, has clarified its roles, duties, and responsibilities beginning with the adoption of the Mauna Kea Science Reserve Master Plan (2000), Mauna Kea Comprehensive Management Plan, UH Management Areas (2009), A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea (2009), Natural Resources Management Plan for the UH Management Areas on Mauna Kea (2009), Public Access Plan for the UH Management areas on Mauna Kea (2010), and Decommissioning Plan for the Mauna Kea Observatories (2010) (collectively hereinafter referred to as “Management Plans”); and

WHEREAS, under said Management Plans, the Board of Regents was principally responsible to fulfill and to carry out all of the recommendations, obligations, and duties promulgated under said Management Plans; and

WHEREAS, the Board of Regents takes its responsibility seriously and hereby affirms its commitment to follow through with the recommendations made in the Management Plans to better manage the impacts of the astronomy facilities and operations upon the natural environment, cultural resources, recreational resources, educational resources, and upon the broader community; and

WHEREAS, the Board of Regents has determined that there remain unmet responsibilities and ongoing compliance issues that have delayed completion of certain recommendations and requirements under the Management Plans; and

WHEREAS, THE Board of Regents therefore desires to remove any delays in compliance and to complete ongoing responsibilities in an accelerated and expeditious manner.

NOW, THEREFORE, BE IT RESOLVED that University of Hawai‘i President David Lassner, University of Hawai‘i at Hilo Chancellor Bonnie Irwin, University of Hawai‘i Vice President for Research and Innovation Vassilis Syrmos, Maunakea Support Services (MKSS), Institute for Astronomy (IfA), Office of Maunakea Management (OMKM), and any other necessary, related management or operation entity be directed to cause the following action items to be accomplished in the timeframes as specified herein below:

1. Two (2) observatory sites known as the Caltech Submillimeter Observatory and Hokule‘a site shall be decommissioned no later than December 31, 2021. For purposes of this resolution, the
term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction. These will be the first two of five observatories to be decommissioned.

2. A schedule of decommissioning of these two sites will be laid out on a Gantt chart or other similar visual schedule for each of the above sites indicating function and timeframe for each major step in the decommissioning process to achieve completion on or by December 31, 2021. The schedule for decommissioning shall be presented to the Board of Regents on or before its February 2020 meeting.

3. A new educational telescope facility for the University of Hawai‘i at Hilo shall be established on already developed land at Hale Pohaku or elsewhere, as soon as can be permitted, with a target date no later than December 31, 2021, to ensure the prompt availability of a teaching telescope. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

4. On or by December 30, 2025, a determination will be made on the decommissioning of three (3) additional observatory sites based upon compliance with existing or future permits or governmental approvals. If decommissioning is required, the three (3) observatory sites will be identified and reported to the Board of Regents by January 2026.

5. In collaboration with OMKM and MKSS, the ‘Imiloa Astronomy Center shall develop a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by August 31, 2020. OMKM shall report to the Board of Regents on its plans and progress to implement said educational programs at its February 2020 meeting. Administration shall make a budget request during the 2020 legislative session to fund this action item.

6. Administration shall make a CIP request during the 2020 legislative session for monies to plan, design, and construct an educational center at Hale Pohaku and/or another appropriate site on Maunakea that will educate visitors on cultural, environmental, and astronomy related topics relating to Maunakea.

7. The Maunakea Master Plan update will accommodate uses by Native Hawaiian cultural practitioners.

8. Following consultation with the Maunakea Management Board, Kahu Kū Mauna, ‘Imiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, a reorganization and restructuring plan shall be presented to the Board of Regents as to all advisory, operating, and funding bodies involved in the management of Maunakea by April 2020. The purpose of the plan is to improve operations and management and make it more efficient, effective, and transparent. The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The reorganization and restructuring plan shall be embodied into a governance document that is approved by the Board of Regents.
9. As part of the reorganization and restructuring plan, an in-depth analysis will be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.). The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The results of this analysis, including input from the Maunakea Management Board, Kahu Kū Mauna, ʻImiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, will be presented to the Board of Regents by April 2020.

10. The University will cooperate with the Department of Hawaiian Home Lands (DHHL) to resolve any outstanding issues relating to the roadway infrastructure on Maunakea and will seek opportunities to assist DHHL in its efforts to fulfill its trust duties and responsibilities on the use of its Maunakea lands.

11. As permitted by law, the University should pursue a partnership with an appropriate agency or organization whose primary beneficiary is the Native Hawaiian community, to operate commercial shuttles and tours on Maunakea.

Adopted by the Board of Regents
University of Hawaiʻi
November 6, 2019
RESOLUTION

Affirming Commitment to the Collaborative Stewardship of Maunakea’s Cultural, Natural, Educational and Scientific Resources

WHEREAS, the Board of Regents believes that Maunakea can and should be a global model that provides inspiration, harmony and peaceful co-existence among culture, education, the environment and scientific discovery; and

WHEREAS, the Board of Regents for the University of Hawai‘i embraced the university’s commitment to its responsibilities to Maunakea beginning with the adoption of the Maunakea Science Reserve Master Plan in 2000, the Maunakea Comprehensive Master Plan, Cultural Resources Management and Natural Resources Management Plans in 2009, and the Public Access and Decommissioning Plans in 2010; and

WHEREAS, the board and the university administration also aspire for the university to become a model indigenous-serving university and have committed to principles of sustainability across its mission; and

WHEREAS, the board now hereby affirms the commitment of the university to fulfill its obligations under the plans that have been approved, as well as its broader commitment to the community at large; and

WHEREAS, the board wishes to additionally acknowledge the dedicated work and commitment of the Office of Maunakea Management, the Maunakea Management Board, and the Native Hawaiian Kahu Kū Mauna Council, on behalf of the University of Hawai‘i and the Board of Regents; and

WHEREAS, subsequent to the adoption of the various plans, and with the understanding that collaborative stewardship will continue to be prioritized on all Maunakea lands, the university has now agreed to return approximately 10,000 acres of land on Maunakea that it currently leases that is not used for astronomy, to the State of Hawai‘i; and

NOW, THEREFORE, BE IT RESOLVED that the university intends to return the 10,000 acres to the State of Hawai‘i if possible and pursue a new lease or land tenure for the reduced acreage that will support the continued viability of astronomical research and education in the State; and

BE IT FURTHER RESOLVED that the university work with the State, County of Hawai‘i, Native Hawaiian organizations, and the broader community to evolve collaborative and coherent management and stewardship plans that are consistent with the Comprehensive Management Plan, and that are supported by appropriate administrative rules; and
BE IT FURTHER RESOLVED that the university make it a priority, including through additional financial support, to meaningfully increase the education and engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in the areas of astronomy, celestial navigation and exploration; and that such initiatives include an active educational and outreach program that highlights indigenous knowledge as well as enhanced student access to and utilization of Maunakea-based astronomical resources in the field; and

The Board of Regents, through this Resolution, hereby affirms its commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and directs the university to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.

Adopted by the Board of Regents
University of Hawai‘i
August 24, 2017
APPENDIX D. PROCESS TO ESTABLISH WHICH ASTRONOMY FACILITIES MAY CONTINUE AFTER 2033

In addition to the two facilities (CSO and Hōkū Ke‘a) for which decommissioning notices have already been submitted, the VLBA Antenna (Astronomy Site 14) is also identified to be decommissioned as required by Condition 11 of the TMT CDUP. This leaves the following ten facilities with the potential to continue beyond 2033: Subaru, Keck I, Keck II, IRTF, CFHT, Gemini, UH 2.2, UKIRT, JCMT, and SMA. Of these, the 9-operating facility restriction discussed previously means that with the TMT occupying Astronomy Site 13 and taking up one of the slots, only eight can continue; two will need to be decommissioned by the end of 2033.

At the appropriate time, UH will send a letter to each of the facilities that are not both owned and operated by UH asking them whether they wish to continue beyond 2033 or are committed to decommissioning by that date. The letter will be addressed to the official representative of the organization which owns and/or operates the facility. In most cases this would be the agency that entered the current sublease. The letter will spell out the expected terms that would apply if their facility were it to continue to operate after 2033. The organization will be given ample time to respond, probably at least a year. On the same time scale, UH would decide which of the UH-owned and operated facilities (UH 2.2m and UKIRT) it wishes to have continue beyond 2033. The appropriate time for sending the letter will be after the relevant terms of the new land authorization that UH is seeking are known, along with whatever other requirements might apply, some of which could derive from this Master Plan. UH is already consulting with the non-UH facilities on the terms that might be applicable in the event of a new agreement, and it is expected that consultation and negotiation will be ongoing up until the time that the facility-owner responses to UH are due. Simultaneously, UH will be consulting with advisory bodies, stakeholder groups, and the wider community and will consider the input it receives from these groups and individuals in its decision-making process.

During the period leading up to the response deadline, two of the organizations might merge and support only one of their facility’s operations beyond 2033. It is also possible that another organization might propose to take over a facility that the current operating organization decides not to support beyond 2033. These types of arrangements could also occur at other points in the process described in this section.

Once the responses have been received from the organizations responsible for all of the facilities and UH has made its own decisions, it will be known whether or not there are more than nine facilities, including TMT, that wish to continue beyond 2033. If there are not, then UH would enter into the new agreements with all the non-UH-owned facilities that have expressed their intent to continue operating. The organizations responsible for the facilities that will not be continuing would begin the decommissioning process in time to complete it by the end of 2033.

If the organizations responsible for more than nine facilities indicate a desire to continue, UH will develop and implement a process that it will follow to determine which facilities may continue beyond 2033. Based on the goals and objectives described in this Master Plan, UH will propose alternative facility combinations for consideration, with each alternative consisting of nine facilities drawn from the up to 11 in the MKSR that may indicate an interest in operating beyond...
#010

Posted by Pua Brown on 10/25/2021 at 3:35pm [Comment ID: 335]
Type: Correction
Agree: 0, Disagree: 0
If the UH lease is up in 2033, why are you planning to continue astronomy?

#011

Posted by drkthomp on 10/25/2021 at 9:19pm [Comment ID: 364]
Agree: 0, Disagree: 0
The primary stakeholders, specifically the indigenous community, should be explicitly mentioned here rather than vague terms such as "wider community", especially in light of stated values in the intro.
2033. UH will also propose a decision-making process that will include consultation with the MKO’s, with appropriate advisory groups, and with the wider community. This process will include consideration of the scientific value of both the facility and its site, environmental considerations, and community interests. One aspect of advisory group and community consultation is seeking input on which of the Astronomy Sites are the most culturally important; such input will be one factor that informs UH’s process to identify which facilities will continue operation beyond 2033. It is likely that UH will also propose a “blue-ribbon” committee be established to provide an independent expert assessment of the relative merits of the various facility combinations. Depending on the circumstances, UH may ask the committee for a recommendation in addition to the assessment. The selection process will end with a decision by UH on which facilities will continue after 2033. UH hopes to have this decision made by the end of calendar year 2025, to allow sufficient time for decommissioning under the Decommissioning Plan process.

UH’s target date for having new agreements in place with the continuing non-UH facilities is January 1, 2027. Facilities not continuing would be expected to submit decommissioning NOI’s by that date if they had not yet done so. This will allow seven years for them to complete the decommissioning process. Those Astronomy Sites that are decommissioned will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of certain astronomy site may be considered during or after the decommissioning process.
#012

Posted by Kenneth Hirsch, MD, PhD on 10/15/2021 at 8:51am [Comment ID: 181]
Agree: 0, Disagree: 0
I wish to express my strong support for the past and current efforts made by UH in advancing science in general and astronomy in particular, in ways that are respectful of cultural issues. I hope that the Master Plan is accepted, and implemented, and that as an extension of the Plan, the TMT continues to grow and develop.

#013

Posted by thomasc575 on 10/09/2021 at 5:48pm [Comment ID: 148]
Type: Suggestion
Agree: 0, Disagree: 0
NO TO TMT! KU KIA'I MAUNA!

#014

Posted by HiloResident on 10/06/2021 at 12:43pm [Comment ID: 120]
Type: Suggestion
Agree: 0, Disagree: 0
UH already hires world-class astronomers and shouldn't need to consult with outside groups on what it needs. Please leave this decision to the astronomy departments at UH Hilo and Manoa.
9 INPUT RECEIVED VIA KONVEIO COMMENT FORM
Submittal Number:  1
Date submitted:  9/14/2021
Name:  Jacob Schneider
Organization: 
City, State, Zip:  ,
Comments on Missions, Vision, and Values:  Build TMT
Comments on Goal and Objectives:  Build TMT
Comments on Strategies:  Build TMT
Comments on Halepōhaku facilities:  Build TMT
Comments on management and stewardship facilities in the MKSR:  Build TMT
Comments on education, research, and astronomy facilities in the MKSR:  Build TMT
Comments on access management facilities:  X
Comments on proposal review process:  Build TMT
Comments on design guidelines:  Build TMT
General/Other comments:  Build TMT
Comments on Halepōhaku facilities: Step 1: Remove all the illegal campsites at the intersection of Mauna Kea Access road. Prosecute those that have set-up camps and have them restore the area to its original condition.

Step 2: Restore Hale Pohaku visitor center to accommodate all visitors with restrooms, picnic tables, nighttime stargazing, viewing of 'Silversword' plants and weekend tours to the summit.

Step 3: Restore volunteer programs for star gazing, trail cleanup and guided tours.

Step 4: Limit commercial tours to 10 people/tour and set time schedule that will limit number of tour vehicles in a particular area at any given time.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 3
Date submitted: 9/14/2021
Name: Susan Hultberg
Organization:
City, State, Zip: Hilo, HI 96720

Comments on Missions, Vision, and Values: The UH should NOT be in charge of Mauna Kea. UH has proven to be unresponsive to the input of The Hawaiian people. It is the responsibility and right of the Kanaka Maori. No plan administered by UH will be honored; UH has "Mission", but entirely lacks "Vision" and has no "Values" acceptable to Hawaii's people.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Get UH off the mauna. They have proven themselves to be disastrous stewards. The poet Maya Angelou said, "When someone shows you who they are, believe them the first time."
Submittal Number: 4
Date submitted: 9/14/2021
Name: Carl Shaad
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines: I am not native Hawaiian or culturally opposed to the proposed E O I Ka Leo plan. I will let others comment on the cultural significance of Maunakea. However, I believe there should be much more respect given to the natural beauty of the mountain and environment. Therefore, I am opposed to building more astronomy facilities on Maunakea that look just as visually obtrusive as the existing ones. A huge white dome may look like a thing of beauty to many astronomers, but to the rest of us, it is just like an ugly pimple on the end of one's nose.

I understand that the reason for a reflective color is to minimize the heat build up inside the dome during daylight hours. But a well-designed temperature control system would do better than any paint application. And to minimize the size and cost of an air conditioning system, there are alternative colors and pigments that can achieve whatever additional cooling effect is required. A blanket statement requiring the "rotating dome and shutter... have a reflective aluminum-like coating" (Sec. 7.2.5.1) is unacceptably broad. I'm sure that the scientific community, with a little experimentation, can come up with a less-obtrusive color scheme. If not, I know some talented theme park painting experts that can effectively make visual obtrusions "disappear" through techniques like mottling and dabbing to make the facility look almost exactly like its surroundings when viewed from a distance.

Concerning the TMT in particular, I have never seen an artist's rendering of what that 18-story facility would look like from the ground. I believe the public has the right to know how it would appear if it is constructed as proposed. The usual media-release pretty-picture painting that depicts the TMT from a height above the top of the mountain is a gross misrepresentation, since no one will ever actually view it from up there. Please be more transparent in the visual aspect of the TMT and all other facilities. Regardless of cultural beliefs, most residents would not think that a humongous telescope is an appealing addition to a beautiful mountain.

Mahalo.

General/Other comments:
Submittal Number:  5
Date submitted:  9/15/2021
Name:  Dana Keawe
Organization:  self
City, State, Zip:  Pahoa, HI  96778
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:  I am against and DO NOT support a telescope being moved to Halepohaku.
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Until All the requirements are met to decommission All 5 telescopes there should be NO new telescopes built. No telescope should be built or moved to Halepohaku!
Follow Canary Islands lead and reject TMT being built here on Mauna a Wakea!
Submittal Number: 6
Date submitted: 9/19/2021
Name: Isaac Harp
Organization: Makani Hou o Kaloko-Honokohau
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 7
Date submitted: 9/25/2021
Name: Jackie Murray
Organization: NA
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I would think Native Hawaiians would want to honor their ancestors with a telescope. A telescope is used to continue to seek information about the universe about origins of life. The intrepid peoples who sought a new life used the stars and moon to help guide them. It would seem that a telescope would honor their beginning on the Hawaiian archipelago. Honor the peoples who made the voyage. Do the current Hawaiian mariners who go to sea honor the original voyagers by their efforts to use the stars, sky to guide their way? Boats are built to make sea voyages, the use of astronomy honors the celestial bodies used to guide those boats. An observatory is the vessel needed to continue the work of their forefathers.
Submittal Number:  8
Date submitted:  9/27/2021
Name:  Levi Gerlitzky
Organization:
City, State, Zip:  
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Please continue to allow free & open access to the mountain for locals and visitors alike.
Please permit construction on the mountain for larger telescopes to further scientific research which is also great for the economy and tourism.
Thank you
Submittal Number: 9
Date submitted: 9/29/2021
Name: Jennifer Shimabukuro
Organization: SMS Research
City, State, Zip: Honolulu, HI 96813

Comments on Missions, Vision, and Values: I believe that the approach should be based on respecting each perspective of all parties involved, and I think a peaceful solution would come from the commonalities of each party involved.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 10
Date submitted: 10/1/2021
Name: Tara Rojas
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Please address this during your livestream Wed. Oct 6th 5-7pm:

UH has grossly mismanaged Mauna Kea for 50+ yEArS. Fifty plus years. Documented in reports. Destroyed the conservation district designated and STOLEN Hawaiian Lands of Mauna Kea. This needs to STOP NOW.

Just as the Military Destroyed and continues to destroy HAWAIIAN LANDS and wants to "negotiate" extended their unheard of 65 years for $1 lease promising to "take care" of the land which again was documented and stated in a Court Ruling that they did indeed fail in their duty to care for the land and that they indeed did contaminating and destroy the land...

...now you University of Hawaiʻi have done, continue to do, and are asking to keep doing the same: mismanaging and destroying and unjustly and discriminatorily occupying stolen land that DOES NOT BELONG TO YOU - NEITHER TO HAVE NOR TO MANAGE.

This "new" Mauna Kea Management Plan is an insult - added on to the 50+ yEArS of hewa mismanagement and added on to the 128 years of racism and hewa against HAWAIIANS IN THEIR OWN HOMELAND.

RETURN THE LAND TO THE HAWAIIANS, UH!

MY QUESTION FOR OCT. 6TH 2021 FORUM: WHEN WILL YOU TAKE "NO" FOR AN ANSWER?
Comments on Halepōhaku facilities

Inability to respect our wishes to protect our sacred Mountain from exploitation and development.

Comments on education, research, and astronomy facilities in the MKSR

Inability to respect our wishes to protect our sacred Mountain from exploitation and development.

Comments on Strategies

Strategies should be to return control to Kānaka Maoli, for the University has shown its continued inability to respect our wishes to protect our sacred Mountain from exploitation and development.

Comments on Halepōhaku facilities

I oppose further development on any area of Mauna Kea

Comments on management and stewardship facilities in the MKSR

In “Part 2: Physical Plan” it is clear that the University’s intentions are set on continued commercialization and industrialization of Mauna Kea. There should not be any efforts to further desecrate these sacred lands to accommodate tourists and astronomers.

Comments on education, research, and astronomy facilities in the MKSR

No jurisdiction for these forms of business being conducted. Prove title to the land, who granted the State authority to lease these lands to the University?

Comments on access management facilities

Comments on proposal review process: The University has no legal authority to implement this plan and proposed actions on stolen Hawaiian Kingdom govt. lands and the Crown lands that are private lands of the moʻī.

Comments on design guidelines: The University has no legal authority to implement this plan and proposed actions on stolen Hawaiian Kingdom govt. lands and the Crown lands that are private lands of the moʻī.

General/Other comments: I would like to express that I have little faith that these comments would end in satisfaction, as I doubt the integrity of the University and its willingness to develop a plan truly embedded in the values and understandings of our kūpuna. Nonetheless, I want it on the record that I am opposed to this master plan as it is an extension of illegal occupation and usage of stolen Hawaiian Crown & Government lands, and in support of the ongoing desecration of our sacred lands. This plan is an extension of a fraudulent annexation, referendum, and all other colonial justifications for the usage of native lands in Hawaiʻi.

Let this be my message to not just the University, but the world: Our people [Kānaka Maoli] are challenging not just the University, but the leaders across the world to set a precedent where honoring relationships supersede money and greed. A precedent where ancestral knowledge is honored and respected rather than trampled on for modern science. A precedent where we value a relationship to the land and its native people, rather than asserting ourselves as superior. The Fakehood of Statehood and the lies the United States has spread through its Resolution 1469 to assert dominion over Hawaiʻi Under article 73e, must not go without challenge. Our ancestors understood the most sacred of things, were determined by their necessity to life. We do not need further desecration and pollution on our temple that sits upon the lands of Kaʻohe, in reference to the ‘āheʻe utilized the carry the sacred waters of Kāne. The United States and its trustee the State of Hawaiʻi has no jurisdiction over these lands. Various nations and institutions should not have investments in the desecration of our lands, and have a
responsibility to recognize our rights as the Native people to govern ourselves and support the restoration of our Self-
Determination. To support this is to support the protection of our temple that is currently under siege. To not support this is
to support a notion that ensures the continuity of the Doctrine of Discovery and Manifest Destiny, that some people are
destined to not be able to have the right of Self-Determination. Let a new precedent be established to promote the rights of
all people to determine the destiny of themselves and their land.
“We are not happy Natives” - Haunani-Kay Trask
Submittal Number:  12
Date submitted:  10/4/2021
Name:  Alexandra Bernstein
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:  Priority is environmental maintenance:
- minimization of erosion, including a plan for dealing with feral population that eats new plant growth and roots
- reduce current toxic substances on the Mauna and permit no new introduction of toxic substances
- perhaps plan areas for human use so that humans stay off of areas that are subject to erosion
Comments on Goal and Objectives:  Priority is environmental stewardship. Imagine all the runoff from the mountain was going into your backyard or where you swim. How would you want it to be?
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Get the military to clean up all radioactive waste prior to renewal of their lease. Include in their lease renewal the banning of any materials that contain may leave radioactive waste.
Make any pilot who will fly in or out of Big Island sit down for 5 minutes with a map that clearly shows Waikoloa Village to be a residential area. Make them sign a statement that they will not fly over it at any altitude. Just telling them has not made a strong enough impact on their behavior while in the air. Perhaps require the Army to program the navigation systems with a warning signal that activates when they are over an area with a specific heat signature that indicates human settlement. How hard can that be?
For Army lease renewal, make them choose between paying in advance for repaving Waikoloa Rd. the next time it needs it, or building the DKI Highway extension to Queen K. Since the former is much cheaper, maybe they will jump at the chance to do it.
For Army lease renewal: The Army makes a big show of their recycling & sustainability efforts. This does not include plastics. In addition to household plastics, they use plastic ammunition in training. To renew the lease, force them to start a project that actually recycles plastic into building materials or ships it out of here.
Submittal Number: 13
Date submitted: 10/5/2021
Name: Paul WHITE

Organizations:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I think the plan is generally well done, but I think the implementation will be challenging. As long as management of the facility is not willing and able to ignore the noise made by a few vocal opponents, progress will be difficult. I suggest the Plan needs to be enhanced by adding an expedited fac
Submittal Number: 14
Date submitted: 10/5/2021
Name: PAUL WHITE
Organization: retired
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I think the plan is fine as far as it goes. But I suggest adding a section creating a fact-finding body that can act quickly (say within 60 days) to resolve factual questions about "traditional uses" of the facilities.
Submittal Number: 15
Date submitted: 10/6/2021
Name: Kalena Lanuza
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha, I would like to know how the University of Hawaii plans to address the historical trauma that has and will be caused to the Native Hawaiian people through this plan? As we know, Native Hawaiians have experienced significant trauma and subsequent mental health sequelae as a result of neo-colonialism and occupation of their lands. Specifically, the continued and planned occupation of Mauna Kea has caused many Native Hawaiians, including myself to have a visceral and embodied trauma response to this action. I’m truly curious as to how the university can make further hurting Native Hawaiians make sense when they consider sponsoring this project? As a responsible (assumed) partner in things that move Hawai‘i and Native Hawaiians forward, I feel that this question must be addressed in your presentation. I, along with other Mental Health professionals look forward to your address.
Submittal Number: 16
Date submitted: 10/6/2021
Name: C. Ishihara
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I don’t believe that UH should be creating and implementing a master plan for Mauna Kea given the past history and continued mismanagement of Mauna Kea. How can we trust that UH is not selfishly looking out for their own interests? The evidence is in the plan that UH will continue to push their agenda regardless of the opposition from the community.
Greetings and thank you for welcoming community engagement in this conversation that effects all of us here in Hawai‘i and abroad. As this pandemic has taught us many things one of them is land and ancient knowledge the only thing that will stand the test of time. I had hoped that this Master plan would look very different than it does. The fact that this conversation and coercive plan of Master lease with telescopes still as the focus is a shame. I am a settler and guest here in Hawaii and also have been a student at UH Maui. The Humanity that has been shared through Hawaiian lived experience is powerful and is life changing. The continued collaboration of knowledge, sovereignty, laulima, love in Hawaiian framework is a shared model of maintaining humanity in a world that is working to destroy life in the name of ‘progress. UH renewing the lease is a clear sign that changes must be made. The future operation of TMT do not belong on Mauna Kea, the conversations of how that could happen have been spoken. UH if a steward of The Mauna, of Hawaiian learning, of Aloha ‘Āina would not continue to defend or include TMT in any plans. “The Masters tools will never dismantle the Masters house. So I ask you UH Board, Reagents, Management. E ʻo i ka Leo what voice are you listening to?

Here are a few statements from the newsletter about the new master plan frameworks and I just wanted to make a few points. I know there is much more within the actual plan but we can start at the basic discrepancies that do not honor the statement ‘listen to the voice” as you proclaim. I have not taken the time to read the whole master plan but will add input to this by the date of October 26 as you have stated.

“The overarching goals of the plan are to reduce impacts to the natural resources, especially in the summit region, by limiting development” This statement with its positive intent shows the failure and danger that the mauna is still facing. Goals about limiting development while continuing to develop in a precious fragile natural resource is a contradiction. The language of oppression is loaded with goals. The goals the Fathers of Sociology and Science were full of goals but the plan was eugenics and erasure of ancient knowledge replaced by white theory domination with a smile of cooperation. The science building at UH Maui has a large framed poster of scientist that this Master plan aligns with. It shows over 90% Anglo scientist excludes any Hawaiian scientist, navigators, or astronomers yet Hawaiian were some of the greatest in the world to date. So the Mauna is in danger with this kind of science and ‘goals’.

“UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawai‘i’s economy and employment opportunities.” I would ask to this statement is neglecting the world class brilliance of Hawaiian astronomy and the ability to see the stars. The astronomy program teaches how to use telescopes not to look to the past to see the true indigenous mastery. How is this helping the economy. This continued game of “it is gonna help the economy” has got to stop. Hawaii is being sold off for pennies for plenty benefit outside of Hawai‘i. This language of pimping the Mauna for progress and the benefit of the people is dangerous and devoid of intelligence. People in Hawaii are being displaced, hawaiian being pushed out and the growth of this telescope monstrosity is not the solution. Diversification is a clear statement of colonized behaviors. Hawaii was one of the most ethnobotanically rich places in the world why not focus on the regeneration instead of momentary economic degradation that has shown to be a failure for Hawaii. I know there is a lot of work on the Mauna to protect its precious life and UH is a big part of it. But these telescopes are not that and the clear distinction must continue to be made.

“Providing mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework” This statement is the saddest one for sure. “mechanisms to seek and consider input from the Native Community”. The voice of the Kanaka Maoli should be absolute voice in this matter. To provide mechanism, is
clearly showing that the voice of this program is majority non Kanaka and that is a major problem. The voices and input of how majority Hawaiian feel about this continued telescope development has been clearly stated. Folks laid down their lives, went to supreme court with all proof of the illegal nature of these telescopes, went to jail, started Puʻuhuluhulu university, fed and cared for one another to show give clear input about decision making frameworks. So if all of that happened and you still are not listening what does one have to do to have their voices heard in the decision making frameworks?

I urge you to truly live by the statement of Aloha ʻĀina as you proclaim and E ʻō i ka leo. END THIS COLONIZED NIGHTMARE AND BE TRUE STEWARDS DO NOT DISSECT OUT THE MAUNA OR THE PEOPLE. Please ask yourself what did this pandemic teach you, was it really capital gains that helped us? It was community working together to stay safe and nourish one another. The colonizer justifies invasion because of the economy, what side of history will you participate in. Bless you I pray for you all.

With gratitude and hope, Pahnelopi Mckenzie
Comments on design guidelines: Because such a large facility to incorporate the telescope has to be built, it would be idea to excavate a deep hole on the site that it is to be built on to help hide the telescope from the view of others below the summit. By using a partially subterranean telescope housing, it would have many benefits. Greater protection from the elements, easier access, less of a profile, etc.

If one could look up and see the massive bulk of Maunakea rising to world-record height without a big huge box with a rotating dome dominating its summit, I think we would have gone far when considering the natural aspects of the environment.

General/Other comments:
Submittal Number: 19
Date submitted: 10/7/2021
Name: Michael Tada
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: THE MAUNA IS A BRIDGE TOO FAR. KANAKA MAOLI LITERALLY CANNOT/ MUST NOT EVER ALLOW FOREIGN HANDS TO EVEN DARE TO TOUCH THE SACRED PIKO. I MAY BE A FOREIGNER MYSELF, AND I AM, YET, HAVING LIVED HERE SINCE BIRTH, ALTHOUGH i A'OLE KOKO, YET BECAUSE I'VE HAD GREAT KANAKA KUMU IN GRADE SCHOOL, KAUA'I COCKET, I HAVE NO CHOICE BUT TO YEARN TO BE A KIA'I. AT THE SAME TIME, BECAUSE OF MY JAPANESE KOKO, I AM FINE JUST BEING A BELIEVER AND DICIPLE OF LANAKILA MANGUAL. IF THAT'S ALL I AM ALLOWED TO BE, THAT'S MORE THAN ENOUGH. i BELIEVE YOU ALL KNOW MY HEART. I LOVE YOU GUYS.
Submittal Number: 20
Date submitted: 10/7/2021
Name: S. Kaleikoa Kaʻeo
Organization: Kākoʻo Haleakalā
City, State, Zip: Kula, HI 96789

Comments on Missions, Vision, and Values: To whom it may concern,
Please address the following questions. The following questions need to be adequately addressed in the so-called “Master Plan.” If they are not being addressed, please explain why and cite your legal instruments.

Will the University of Hawaiʻi acknowledge and take international law and customary international law into account in the development of the so-called “Master Plan”? If not, please explain what and cite your legal instruments.

Does the University of Hawaiʻi agree or disagree with Dr. Alfred M. deZayas, United Nations Independent Expert, Office of the High Commissioner for Human Rights “that the lawful political status of the Hawaiian Islands is that of a sovereign nation-state in continuity; but a nation-state that is under a strange form of occupation by the United States resulting from an illegal military occupation and fraudulent annexation”? If not, explain why and cite your legal instruments.

Does the University of Hawaiʻi agree or disagree with Dr. Alfred M. deZayas, United Nations Independent Expert, Office of the High Commissioner for Human Rights that “international laws (The Hague and Geneva Conventions) require that governance and legal matters within the occupied state (in this case, the Hawaiian Kingdom), not the domestic laws of the occupier (the United States)”? If not, explain why and cite your legal instruments.

Does the University of Hawaiʻi own the summit (have legal title as landowners) of Maunakea? If the University of Hawaiʻi is claiming to have legal title to the summit of Maunakea, please explain. Cite legal instruments, chain of title, and proof of title i.e. deed of transfer of title.

What is the documented chain of title for the summit of Maunakea? Does the University of Hawaiʻi own any interest of land title for the summit of Maunakea? Cite legal instruments and proof of title?
If the University of Hawaiʻi is only a leaseholder, why and by what authority does the University of Hawaiʻi have to develop and manage the creation of a “Master Plan” for Maunakea?
Explain how the University of Hawaiʻi became recognized as having “stewardship” over the summit of Maunakea? Is it a legal authority? Provide evidence. In what year and by what legal instrument did the Univeristy of Hawaiʻi become lawfully recognized as having “stewardship” over Maunakea?

When and how were the rights, “koe nô naʻe ke kuleana o kānaka” which is a condition of title from the original award of Maunakea via the 1839 Declaration of Rights, the Hawaiian Constitution(s), and as it has been recognized in numerous court/legal cases extinguished i.e. PASH? In what year and by what legal instrument?
What is the legal basis for the University of Hawaiʻi’s past and future use of the Maunakea Access Road; from the Daniela K. Inouye Hwy at Puʻuhauluhulu to the summit of Maunakea? In what year and by what legal instruments does the University of Hawaiʻi have lawful access? Cite the legal instrument and proof of right of access.

Please explain what “Maunakea is linked to the Hawaiian people” means? What does “linked” define? Does the University of Hawaiʻi recognize the political, legal, and cultural rights and responsibilities that Native Hawaiians have with the summit of Maunakea? Cite the legal instruments and proof of what the University of Hawaiʻi recognizes? What is it based upon?

Does the University of Hawaiʻi hold legal and lawful authority to define, adjust, and alter the legal and lawful rights and responsibilities that Native Hawaiians have with the summit of Maunakea via the development of a “Master Plan”? Cite the legal instruments and provide proof.

Does the Industry of Astronomy (Astronomers) have legal and lawful rights and responsibilities to the summit of Maunakea? What is their legal rights and authority? Cite the legal instruments and provide proof.

Who made this determination that “…and for some the mauna is sacred”? What is this based upon? Who is defining what is sacred for Native Hawaiians? How does the University of Hawaiʻi gain this authority to determine what is sacred for Native Hawaiians? Is the University of Hawaiʻi making this assessment? What is the evidence? Is this a simple opinion by UH Administration?

No ka pond o ka ‘āina, ka lāhui kanaka, a me nā hanauna Hawaiʻi e hiki mai ana i kēia mua aku,

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:
Konveio General Comment Forms

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 21
Date submitted: 10/7/2021
Name: Melissa Tomlinson
Organization:
City, State, Zip: ,

Comments on Missions, Vision, and Values: How can you stand by your mission, vision, and values and still propose TMT? Have you heard the thousands telling you “No”?

Comments on Goal and Objectives: Are there goals to continue removing telescopes to address restoration efforts for when the lease expires in 2033? There is zero plan to move forward with TMT correct? Really I don’t understand how considering the spiritual/religious and cultural impa

Comments on Strategies: Again I’m curious what restoration efforts will be utilized in “the strategy”. What is the university’s strategy to give the land back to the rightful beneficiaries?

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: Does the university have any management and stewardship collaboration goals with Pu‘uhuluhulu University?

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 22
Date submitted: 10/7/2021
Name: Nora Makahanaloa
Organization:
City, State, Zip: Lahaina, HI 96761
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: First of all "WE the people " Have a say to all of this It starts with The Constitution of the State of Hawaii. Let me Start with the "Preamble. We the people of Hawaii and uniqueness as an island State, dedicate our efforts to fullfill the philosophy decreed by the Hawaii State Motto " Ua mau ke ea o ka 'aina i ka pono. The Life of the Land is perpetuated in Righteousness. We reserve the right to control our destiny, to nuture the integrity of our people and culture, and to preserve the quality of life we desire. We reaffirm our belief in a government of the people, by the people and for the people, and with an understanding and compassionate heart towards all the people of the earth, do hereby ordain and establish this constitution for the State of Hawaii. As a kanaka Maoli this is our God given land from the beginning until the end of time. Mahalo nunui!
Submittal Number: 23
Date submitted: 10/8/2021
Name: Thomas Cousins
Organization:
City, State, Zip: Honokaa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: The highly revered Hawaiian voyaging navigators are star gazers and ponderers of the universe. I believe that there can be no better tribute to the sacred Mauna Kea than being chosen to represent the eyes of earth that open the havens for all of its inhab
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 24
Date submitted: 10/9/2021
Name: Jeanne Hempen
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support this plan 100%. Excellent, well organized and person sensitive plan. Based on this plan, I support TMT 100%. Astrology is critical for our future Hawaiian citizens.
Submittal Number: 25
Date submitted: 10/9/2021
Name: Lindsey Caldwell
Organization:
City, State, Zip: Waikoloa, HI
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Native Hawaiian organizations should be the stewards of Mauna Kea not the university
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: A’ole TMT and all unused telescopes should be removed
Comments on education, research, and astronomy facilities in the MKSR: A’ole TMT and all unused telescopes should be removed
Comments on access management facilities:
Comments on proposal review process: A’ole TMT and all unused telescopes should be removed
Comments on design guidelines: A’ole TMT and all unused telescopes should be removed
General/Other comments: Enough is enough! Stop destroying the top of the mountain, stop disregarding the indigenous peoples and their culture.
Konveio General Comment Forms

Submittal Number: 26
Date submitted: 10/9/2021
Name: Rosemary Kauina
Organization:
City, State, Zip: Kailua, Hi  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I would just like to register my support as a Native Hawaiian for the TMT to go forward. We need to diversify our economy and I believe that science and cultural practices can co-exist peacefully on the Mauna. Mahalo, Rosemary Kauina
Submittal Number: 27
Date submitted: 10/10/2021
Name: Kathleen Puou
Organization:
City, State, Zip: Kealakekua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: It should be a spiritual reserve. Not a science reserve. The awe you feel up there is not from knowledge, but spirituality.
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: After all we have taken from the Hawaiian people, I do not understand why you cannot concede TMT. Mauna Kea is for all people of Hawaii, not just a chosen few who feel their mission is above all others. Who is to say that research is more valuable than ones spirituality? At this time of world wide conflicts, I know the choices for expansion, development and profits have taken us astray. People are lost for lack of a connection to the greater gifts of our earth and the universe. No more development on Mauna Kea and return the mountain to those that love, care and respect her.
Comments on Missions, Vision, and Values: I strongly support maximizing use of Mauna Kea for astronomy facilities, keeping current telescopes and adding the Thirty-Meter Telescope.

The currently existing and potential future telescopes on Mauna Kea have an extraordinary value for the State of Hawaii, the country and science. The telescopes help make the University of Hawaii an international hub of astronomy research with a world-class astronomy department, bringing in hundreds of thousands of research dollars and educating tomorrow’s scientists. The state of Hawaii and local communities benefit from the world-renowned scientists that come to work at the telescopes, and often bring spouses who are doctors, dentists, engineers and other experts desperately needed in the State of Hawaii. The telescopes do not pollute: no noise, no air emissions, no water effluent, no light pollution.

Any other state would enthusiastically pursue the opportunity to have such low-impact, world-class science facilities, including the Thirty-Meter Telescope. As a taxpayer in the State of Hawaii, I support science and maximizing use of Mauna Kea for astronomy.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 29
Date submitted: 10/12/2021
Name: Amy Allen
Organization:
City, State, Zip: Honaunau, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities: First observatories should be decommissioned and completely removed and their sites restored until only 9 remain. Furthermore, site 13 should not be developed. Failure to remain at or below 9 observatories constitutes a breach of trust. Until your management resolves the over abundance of existing facilities and have the blessing of native Hawaiians and Mauna protectors asking to develop another site is unconscionable.
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 30
Date submitted: 10/12/2021
Name: Nikea Kumagai
Organization:
City, State, Zip: , 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

Comments on education, research, and astronomy facilities in the MKSR: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

General/Other comments:
Submittal Number: 31
Date submitted: 10/12/2021
Name: Courtney Johnson
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: I do not consent to the building of the TMT on Mauna Kea. Honor and protect sacred land.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 32
Date submitted: 10/12/2021
Name: Crystal Sanders
Organization:
City, State, Zip: ,

Comments on Missions, Vision, and Values: Unless you are listening to Native Hawaiian voices who are demanding the cessation of this plan your “values” are rooted in colonization and genocide. Withdraw your plan for building TMT on Maunakea and return the university lands back to Native Hawaiian stewardship.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Unless you are listening to Native Hawaiian voices who are demanding the cessation of this plan your “values” are rooted in colonization and genocide. Withdraw your plan for building TMT on Maunakea and return the university lands back to Native Hawaiian stewardship.
Comments on Halepōhaku facilities: The physical plan to implement the TMT telescope on the sacred Mauna Kea is abhorrent. To bulldoze this land, sacred to thousands, for this brainchild of greed, simply cannot happen. There are other places. And frankly, even if there are not, then it is still necessary to preserve the Sacred. Do not disturb the Mauna.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on proposal review process: The entire process has clearly been an echo chamber, because if all viewpoints were being equally taken into account, then you would see the thousands of protectors who have been stationed on the Mauna since the announcement. Whatever process that is ongo

Comments on design guidelines:

General/Other comments: Defend the Sacred
Submittal Number: 34
Date submitted: 10/12/2021
Name: Vanea Dawson
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: Besides people with letters after their name who is this actually educating? The public does not have access to what is going on and what the telescopes are actually used for. Nebulas, stars, galaxies, etc are not worth the erasure of an actual, tangible 
Comments on access management facilities: 
Comments on proposal review process: The community does not agree that a telescope should be built on top of Mauna Kea. 
Comments on design guidelines: To put something profane on something sacred goes against the wishes of Hawaiian people. 
General/Other comments: Not only is it causing destruction, it is illegally settling on Hawaiian land that was illegally taken over. It is allowing the erasure of Hawaiian people.
Konveio General Comment Forms

Submittal Number: 35
Date submitted: 10/13/2021
Name: Mara Davis
Organization:
City, State, Zip: honolulu, 12 0

Comments on Missions, Vision, and Values: Mauna kea isn’t being taken care of environmentally right now there shouldn’t be any more construction on sacred land because it bad for the land all the trash and movement. Native hawaiians don’t benefit from more construction on their sacred land.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Mauna kea isn’t being taken care of environmentally right now there shouldn’t be any more construction on sacred land because it bad for the land all the trash and movement. Native hawaiians don’t benefit from more construction on their sacred land.
Submittal Number: 36
Date submitted: 10/13/2021
Name: Charlene holani
Organization: 
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: UH Has not held it’s end in managing The summit of Mauna Kea properly as promised in its past missions/and current proposed TMT. The lies and multiple back door permits (or non permits) show how much disrespect the University holds towards native Hawaiians/ Hawaii’s people and Hawaii the islands itself. Therefore I only see it as just and fair for UH manoa not to move forward with the build of TMT and fulfill their obligations to removing the broken telescopes on MAUNAKEA and maintain and restoring the desecrated resources already done by current telescopes.
Submittal Number: 37
Date submitted: 10/13/2021
Name: Samantha Boyer Boyer
Organization: Samantha Boyer
City, State, Zip: Portland, Oregon 0
Comments on Missions, Vision, and Values: NO TMT CLEAN WATER AND LAND
Comments on Goal and Objectives: NO TMT BEFORE YOU GO TO SPACE MALAMA DIS PLACE
Comments on Strategies: NO TMT ON MAUNA KEA WE COMING FOR COLONIZERS WHEN IT HITS THE FAN
Comments on Halepōhaku facilities: No TMT on the Mauna, keep the waters clean from their coolant system. No way!
Comments on management and stewardship facilities in the MKSR: NO TMT ON MAUNA KEA. CLEAN WATER FOR OUR PEOPLE.
Comments on education, research, and astronomy facilities in the MKSR: EDUCATE US NOT COLONIZERS COMING IN FROM ELSEWHERE TO BUY OUR LAND
Comments on access management facilities: X
Comments on proposal review process: AOLE MAUNA KEA
Comments on design guidelines: STOP TAKING COLONIZER MONEY
General/Other comments: STOP SELLING HAWAII TO IRRESPONSIBLE BEASTS WHO WANT TO TAINT OUR WATERS FOR ONE LOOK AT THE SKY, HAWAIIANS SAILED THE SEAS WITH THE STARS, WHAT THE HELL YOU DOING
Submittal Number: 38
Date submitted: 10/13/2021
Name: Jen Vasquez
Organization:
City, State, Zip: Tigard, OR 0

Comments on Missions, Vision, and Values: The indigenous people of Hawaii have an internationally recognized right to self-determination and have over the past 12 years clearly exercise that right and said no to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands

Comments on Goal and Objectives: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been Mass demonstrations throughout Hawaii and abroad and opposition to the building of the TMT on Mauna Kea. Tens of thousands

Comments on Strategies: Over half a million Kanaka Maoli, Hawaii residents, and world citizens have provided testimony at countless hearings, sign positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

Comments on Halepōhaku facilities: I am all for the advancement of scientific research however for too long indigenous peoples have suffered under the guise of progress. The desecration of sacred lands, of which there is so little remaining that is not already developed, is not worth the additional expansion of buildings for scientific pursuit.

Comments on management and stewardship facilities in the MKSR: Although we cannot make amends for the past we can move forward in partnership with the people of Hawaii to find new ways to explore our galaxy while preserving the history and culture of Hawaii.

Comments on education, research, and astronomy facilities in the MKSR: The indigenous people of Hawaii have an internationally recognized right to self-determination and have over the past 12 years clearly exercise that right and said no to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands

Comments on access management facilities: X

Comments on proposal review process: I am all for the advancement of scientific research however for too long indigenous peoples have suffered under the guise of progress. The desecration of sacred lands, of which there is so little remaining that is not already developed, is not worth the a

Comments on design guidelines: Although we cannot make amends for the past we can move forward in partnership with the people of Hawaii to find new ways to explore our galaxy while preserving the history and culture of Hawaii.

General/Other comments: Over half a million Kanaka Maoli, Hawaii residents, and world citizens have provided testimony at countless hearings, sign positions and petitions opposing the building of the TMT on the summits of Mauna Kea.
Submittal Number: 39
Date submitted: 10/13/2021
Name: Dayton Seto
Organization: Stanford Native American Cultural Center, Hui o Nā Mōkū, Stanford American Indian Organization (SAIO)
City, State, Zip: Stanford, CA 0

Comments on Missions, Vision, and Values: I believe this situation necessitated a discussion process where equity was established through a Ho’oponopono, or Peacemaking, format. It was very clear that the power dynamics were heavily skewed. As a result, the bases behind the vision, mission, and values were also inequitable and heavily subjugating towards the Mauna Kea protectors and the broader Kānaka Maoli people.

Comments on Goal and Objectives: Again, I maintain that balance is impossible without a truly equitable, balanced discussion space. Since this was failed by the framework, proper stewardship and education balances could not be achieved. Further, there has been little to no establishment

Comments on Strategies:

Comments on Halepōhaku facilities: The physical plan is based in the false framework again. It is fully hewa and very evident that no true compromises were made as TMT, the primary concern of these conversations, remains as a full goal.

Comments on management and stewardship facilities in the MKSR: Stewardship, likewise, is impossible as UH does not have authority over the land it claims to. This is well documented legally, but, further, the lack of recognition of Hawaiian sovereignty in our necessary ability to steward the land identifies the need

Comments on education, research, and astronomy facilities in the MKSR: Again, there is a lack of funding and respect for Hawaiian astronomical sciences due to the sole focus on Western astronomy approaches. Though names are important, where these names come from are even more important. Simply naming stars with our names is

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I fully stand as a representative of the Native Hawaiian community at Stanford against this plan as it fails to provide equity, proper land stewardship, furthers harm to the environment, undermines Hawaiian sovereignty, and promotes genocidal attitudes towards Kānaka Maoli people, our culture, and our land.
Submittal Number: 40
Date submitted: 10/13/2021
Name: Ahanu Boyle
Organization:
City, State, Zip: ,

Comments on Missions, Vision, and Values: The empty promises of “mindfulness” in regards to the Mauna are disappointing. What kanaka maoli want is for UH to leave, not stay but “play nice”. Leave. Hewa. Return stewardship to the native Hawaiians who know the Mauna best and can take care of it properly. You will never get a yes from them.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  41  
Date submitted:  10/13/2021  
Name:  Aina Iglesias  
Organization:  Independent  
City, State, Zip:  Honolulu, HI  0  
Comments on Missions, Vision, and Values:  Mauna Kea is sacred. Your mission, vision, and values should include Native Hawaiian input, and it has been made clear that the Native Hawaiian community is opposed any form of desecration to the Mauna, including construction.  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  

Submittal Number:  42  
Date submitted:  10/13/2021  
Name:  Lisa Nakamura  
Organization:  
City, State, Zip:  Honolulu, Hawaii  0  
Comments on Missions, Vision, and Values:  Kanaka Maoli, Hawai‘i residents, and world citizens have made it abundantly clear through mass demonstrations, protests, hearings, and petitions that they oppose ANY construction of TMT on Mauna Kea. Continuing to build on Mauna Kea, therefore, infringes on Kanaka Maoli's internationally recognized right to self-determination.  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:
Submittal Number: 43
Date submitted: 10/13/2021
Name: Sam King
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has done an excellent job managing Mauna Kea in the past 20 years and this plan represents an excellent vision for the future. I am very happy, as a Native Hawaiian, that TMT may be built under this plan. I am 100% in support of TMT. My major complaint about this plan is the restriction on construction of telescopes to 9. We should build as many telescopes on Mauna Kea, in as many locations on Mauna Kea, as would best benefit our State and maximize the perpetuation of Hawaii's celestial navigation history through contributions to advance astronomy. There should not be an arbitrary cap placed on our keiki's future. The use of Mauna Kea for advanced astronomy is one of Hawaii's greatest achievements. We should continue that incredible heritage with pride.
Comments on management and stewardship facilities in the MKSR: The people of Hawaii have repeatedly asked that this land not become a building site. That should be respected. They have a right to autonomy, and a right to their land.

Comments on education, research, and astronomy facilities in the MKSR:

General/Other comments:
Submittal Number: 45
Date submitted: 10/13/2021
Name: Tonee Burley
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values: For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. There have been mass demonstrations in Hawaii and abroad in opposition of the TMT. Thousands have marched and occupied the mountain to stop its desecration.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 46
Date submitted: 10/13/2021
Name: Mary Rose Go
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: The Kanaka Maoli have been fighting to protect Mauna Kea for decades and there have been massive demonstrations for over a decade against the many telescopes up there. It's good that there is interest in including Native Hawaiian input. But the fact that "Maintaining the Maunakea Observatories' status as world leaders in astronomy" is still a major part of the plan shows that folks have not been listening. A leader is someone who listens - a leader does not have to be the best. A leader knows when to step down. And maybe now is the time to figure out how to let other universities shine by decommissioning more telescopes. Listen to the native people of the land you profit from. Enough is enough. No TMT. No more telescopes. No more desecration.
Submittal Number: 47
Date submitted: 10/13/2021
Name: Anon Ymous

Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I wish to voice my support of continued astronomy observations on Maunakea. However, these MUST be done in balance with respect and care for the historical and natural environment.
The observations currently taken on Maunakea are not replicable elsewhere in the world and thus are critical to continued enhancement of our understanding of the universe we live in.
Stewardship of the land must include improved care and respect for the natural environment and its cultural significance.
I believe the current Master Plan strikes a reasonable balance between these goals which are sometimes, but not always, in conflict.
Submittal Number:  48
Date submitted:  10/13/2021
Name:  Sandra Moore
Organization:
City, State, Zip:  Washington, DC  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Across all of these areas, the priority should be centering indigenous voices and their perspective on the stewardship of Mauna Kea. Where this plan contradicts their priorities and impinges on their sacred space, it should be changed.
General/Other comments: As a student of University of Hawai‘i at Mānoa, I have been blessed with the great opportunity to meet with and learn from kanaka maoli during my time here. After listening to their voices and the call to action for the preservation of Mauna Kea from further desecration, I must expressed my deepest support to permanently end the plans for the construction of TMT as well as any future plans to disregard the cultural and religious importance of all of Hawai‘i in exchange for the profits and consumption of outsiders. I demand that UH and it’s affiliates not only listen to Native Hawaiians, but act in accordance with their grievances. It is up to you to practice what you preach rather than act as hypocrites with complete and utter disregard for the lands you occupy.
Submittal Number: 50
Date submitted: 10/14/2021
Name: Lei’ohu Turley
Organization:
City, State, Zip: Makawao, Hawai’i 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawai’i should make decisions for their land that has been developed on for decades without the consent of Native Hawaiian. Further developments should be stopped immediately.
Submittal Number: 51
Date submitted: 10/14/2021
Name: Deborah Estin
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: The indigenous people of Hawai’i have a right to self determination and, over the last 12 years, have exercised that right by clearly saying “No.” to TMT on Mauna Kea, which is on stolen lands.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  52
Date submitted:  10/14/2021
Name:  Sophie Stockum
Organization:
City, State, Zip:  Cleveland, OH  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: The indigenous people of Hawaii have spoken. This is not your land to steward. You must end this project and return Mauna Kea to its rightful stewards. It is abhorrent that you would continue after the widespread backlash. No scientific findings could pos
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  53
Date submitted:  10/15/2021
Name:  Jade Cain
Organization:
City, State, Zip:  Forest Grove, Oregon  0
Comments on Missions, Vision, and Values:  Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  54  
Date submitted:  10/15/2021  
Name:  sarah begley  
Organization:  
City, State, Zip:  wailuku, hi 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  as a native hawaiian and a hawaii resident, i emphatically OPPOSE the building of the TMT or any other telescope on mauna kea. i will never support the building of another telescope on this mountain.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I wholeheartedly agree with this plan. UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  56  
Date submitted:  10/15/2021  
Name:  Gloria Kobayashi  
Organization:  
City, State, Zip:  Hilo, Hawaii  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  TMT on Mauna Kea makes sense and is good for our community. Promotion of astronomy is a way of looking toward the future.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 58
Date submitted: 10/15/2021
Name: William Lester
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It conforms not only to the best practices of scientific advancement but also to the wishes and beliefs of our forefathers - explorers who embraced the skies and the stars. To them, moving forward with discovery and awe is sacred. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 59
Date submitted: 10/15/2021
Name: Howard Hall
Organization:
City, State, Zip: Kamuela, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: My wife and I have lived in Waimea (Big Island) for 60 years and Mauna Kea mountain is the pride of Hawaii. We have watched Mauna Kea become world renown for the finest astronomical achievements of mankind. King Kamehameha would be so proud. The University of Hawaii has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  60
Date submitted: 10/15/2021
Name: Michael Lustik
Organization:
City, State, Zip: , HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Hālepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT has the potential to be the most impactful project to ever be developed in Hawaii, for the scientific knowledge to be gained along with improving education opportunities for keiki, diversifying the economy, and adding jobs in Hawaii. I wholeheartedly support its completion and hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii, and a way to share the Mauna must be found. Please keep it up, Imua TMT!
Submittal Number:  61
Date submitted:  10/15/2021
Name:  james lehner
Organization:  lehner
City, State, Zip:  keaau  HPP, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Please continue with the work toward the TMT... It will be a world class observatory with benefits to all mankind and will a proud example of what the people of Hawaii represent.
Submittal Number: 62
Date submitted: 10/15/2021
Name: Michael Helms
Organization:
City, State, Zip: Mountain View, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I'm a life-long Big Island resident and want to express my support for science and the TMT project. Thank you,
Michael Helms
Submittal Number: 63
Date submitted: 10/15/2021
Name: Cheryl Ernst
Organization: ARCS Honolulu
City, State, Zip: Kailua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the plan and laud the university's efforts to provide opportunities for constructive input and balance stewardship with scholarship. I believe modern astronomy (like historical adze quarrying) can coexist with respect for the mountain and its spiritual significance. Thank you for carrying forward the ancient Hawaiians' tradition of exploration and discovery.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am writing to express my support for TMT. It will add to the world's knowledge, and it will be good for this island. An excellent project! It would be very sad if it was derailed because people in power were swayed by a fringe element. These people seem uninterested in compromise, and uninterested in the welfare of their own people. They mostly want to "stick it to the man" (as we used to say in the 60s)
Submittal Number: 65  
Date submitted: 10/15/2021  
Name: Barnaby Beech  
Organization:  
City, State, Zip: Honolulu, HI 0  

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  

General/Other comments: I'm writing in simply to show support for the effort to bring the 30 meter telescope to Mauna Kea. I think it would be great for the Big Island in general and help develop the economy.
Submittal Number:  66
Date submitted:  10/15/2021
Name:  Sandra Gibson
Organization:  Sea Salts of Hawaii
City, State, Zip:  Kailua Kona, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I would like to voice my support for TMT and the University of Hawaiʻi's plan. Mauna Kea is a truly unique and important place for astronomy and I feel UH is in a perfect position to thoughtfully balance the interests of the different stakeholders.
Konveio General Comment Forms

Submittal Number: 67
Date submitted: 10/15/2021
Name: Karin Lynn
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am an avid supporter of TMT as a win / win / win for science, astronomy, the future, Hawai'i as a whole, the Big Island, our keiki, and even (in many ways) especially for the Kanaka Maoli. We can coexist for the benefit of everyone. If Kalepa Baybayan were still with us (RIP) he would be leading the charge! UH has done a good job managing Mauna Kea over the last 20 years, and obtaining a permit for the construction of TMT was an important piece. Next comes support of actual construction of this state-of-the-art telescope which will put Hawai'i and UH in the forefront of space exploration; I wholeheartedly support its completion. My hope is with UH to do everything in its power to ensure TMT is built! Mauna Kea is now some of the best managed state-owned land in Hawai'i. Please keep it up. Imua TMT!
General/Other comments: UH has become a good steward of Mauna Kea and their new plan is well thought out. Astronomy is a very worthwhile endeavor for UH and Mauna Kea.
Submittal Number: 69
Date submitted: 10/15/2021
Name: Pavel Stankov
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am writing to express my continued support for astronomy in Hawai‘i. TMT offers a unique opportunity for all of humanity to reach new knowledge about our amazing universe. A unique opportunity is possible only in a unique place such as Mauna Kea.
Submittal Number: 70
Date submitted: 10/15/2021
Name: Thomas Lowe
Organization: University of Hawaii, Institute for Astronomy
City, State, Zip: Kula, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: With the downturn in the local economy caused by the COVID-19 pandemic the TMT project would be a much needed boost to the local economy. It's not like we want to build a strip mine on the summit. Astronomy is a clean industry and one of mankind's noblest endeavours. I'm convinced that the old Hawaiians would fully support this project since they had a sophisticated knowledge of the night sky and used the stars for navigation. It's unfortunate that a small but highly vocal minority of Hawaiians want to impose their will on the majority of people that support the project. They've used the courts to try to stop this project and when they consistently lose these court challenges they refuse to accept the rulings. This is not the rule of law, this is anarchy! I don't regard them as "protectors" but anarchists. I think some of them want to return Hawaii to the stone age.
Submittal Number: 71
Date submitted: 10/15/2021
Name: Michael Bernstone
Organization:
City, State, Zip: WAIKOLOA, HI 0

Comments on Missions, Vision, and Values: Critical part of the Hawaii Island economy
Comments on Goal and Objectives: Mauna Kea Observatories perform vital work for many sectors worldwide.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 72
Date submitted: 10/15/2021
Name: Ikaika M
Organization:
City, State, Zip: Honolulu, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a native Hawaiian I fully support our participation in science. The goals of TMT are in direct alignment with our wayfaring ancestors. Please continue advancing our people and all of science through the TMT project. Mahalo
Submittal Number: 73
Date submitted: 10/15/2021
Name: Eric Johnsen
Organization: Creative Solutions
City, State, Zip: Honokaa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I and my circle of friends feel that astronomy is a legitimate best use, among others, of the summit of Mauna Kea. We think that the U of H is an appropriate manager of the area and has been doing a good job. Keep up the good work and build the TMT.
Submittal Number: 74
Date submitted: 10/15/2021
Name: Leslie Karst
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 75
Date submitted: 10/15/2021
Name: Nancy Male
Organization:
City, State, Zip:
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I have used the following wording written by others, but it is true to my feelings. UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Konveio General Comment Forms

Submittal Number: 76
Date submitted: 10/15/2021
Name: Mike Irwin
Organization:
City, State, Zip: Reno, NV 0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: I strongly support astronomy and TMT on the mauna.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support protection of cultural sites and activities on the mauna.
Submittal Number:  77  
Date submitted:  10/15/2021  
Name:  Boyang Zhang  
Organization:  
City, State, Zip:  Honolulu, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best-managed state-owned lands in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  78
Date submitted:  10/15/2021
Name:  Nancy Taylor
Organization:
City, State, Zip:  Kaneohe, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I write in support of the TMT which I believe is the most important project that UH could implement. What an incredible opportunity for UH, the State of Hawaii and, indeed, the world. The fact that the perfect place for this telescope is here in Hawaii is such a blessing. I am in full support of this project.
Submittal Number: 79
Date submitted: 10/15/2021
Name: William N Jardine
Organization: Retired individual
City, State, Zip: Kamuela, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha from and old-timer in Kamuela. I strongly support the new plan for the summit management as well as the TMT project itself. We have seen extraordinary benefits from the scientific endeavors on the mountain, and our children and grandchildren have benefitted greatly in terms of both resources and inspiration. Mahalo for your good work!
Submittal Number:  80
Date submitted:  10/15/2021
Name:  Kenneth Quirin
Organization:
City, State, Zip:  Kailua, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect of obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 81
Date submitted: 10/15/2021
Name: sandra kirkpatrick
Organization: none
City, State, Zip: Keaau, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  82
Date submitted:  10/15/2021
Name:  Kathy Teruya
Organization:
City, State, Zip:  Honolulu, Hi  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  For TMT
Submittal Number: 83
Date submitted: 10/15/2021
Name: Lydia Faletoi
Organization:
City, State, Zip: MILILANI, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Support UH Mauna Kea plan and construction of TMT on Mauna Kea.
General/Other comments: I respect the preservation of Hawai'ian culture, but looking at the issue of astronomy at the summit of Mauna Kea, Mauna Loa and Heleakala, there can be no reasonable objection to any of it. All popular objections are misguided and the current protesters are led by illogical agitators. Astronomy is Hawai'ian. It is how the ancestors of the first Hawai'ians navigated and arrived. The modern protesters are nothing to do with historical Hawai'ian culture. The telescopes are less harmful to the mauna than the quarrying that the pre-contact islanders did up there. People are getting on the anti-TMT bandwagon because they bemoan the illegal termination of Hawai'ian sovereignty and perhaps the loss of some of the less cruel and deadly aspects of the grossly unjust Kapu system. A new religion is being imagined, and it is nothing but a mish-mash of modern hula, American and British missionary Christianity, and new-age mumbo jumbo. To respect the mauna, build the telescope and teach Hawai'ian kids real science.
Submittal Number: 85
Date submitted: 10/15/2021
Name: James Cotter
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Astronomy is important. Learning is important. Mauna Kea is important. Build the TMT!!!
Submittal Number: 86
Date submitted: 10/15/2021
Name: GORDON Sam
Organization: Pearl HawaiiFederal Credit Union - Waipahu, HI
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: We need to keep Hawaii as the top place in Astronomy
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 87
Date submitted: 10/15/2021
Name: Gardner De Aguiar
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am Kanaka Maoli and I support the building of the TMT. Our island needs another industry besides Tourism to sustain its economy. What more fitting industry than Astronomy and other STEM programs? Our island is primed for it and can allow us to be a huge asset to the global theater. It will benefit not only us, but the world over. Hawaiians SHOULD be part of this progressive endeavor.
Submittal Number: 88
Date submitted: 10/15/2021
Name: Patricia Kassis
Organization:
City, State, Zip: Kamuela, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: This is a good plan. I support astronomy on Mauna Kea.
Submittal Number: 89
Date submitted: 10/15/2021
Name: Devin Chu
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha,
My name is Devin Chu, PhD. I grew in Hilo, HI and graduated from Hilo High School, I'm now a postdoctoral researcher in astronomy at UCLA.

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I see TMT as a way for me to return home to Hawaii Island to pursue my career and will provide incredible opportunities for future generations. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!

Mahalo,
Devin Chu
Submittal Number: 90
Date submitted: 10/15/2021
Name: Margaret Anderson
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the plan and UH stewardship. Please keep up the good work. Also please support TMT project as it is important to the world & our future.
Comments on Missions, Vision, and Values: This 'mission' cannot operate in good faith without the involvement of a wide set of stakeholders having actual power in the decision making. The University has not demonstrated its good faith towards the Hawaiian people. If it had, there would be more Hawaiians in positions of power. 'Locals' do not cut it (see Haunani Kay Trask's meditations on localism). Moreover, the ethos of 'science for science's sake' must end. With the same machinations of the ivory tower, this set of values excuses and obscures the harm that can be caused in the pursuit of scientific knowledge. Many branches of science are dealing with this right now (in particular look at the legacy of racism within the medical field). However, the 'purer' sciences (aka hard sciences) have yet to really engage with the harm they can cause. The environmental, cultural and societal effects of science must be considered as part of the value of science. If a large group of people (especially and specifically if they are Indigenous) are standing in opposition to a scientific endeavor, then the purpose, validity, and integrity of that endeavor should be questioned and reconsidered.

UH has frequently professed that it is an Aloha 'Āina university. But there can be no Aloha 'Āina at UH if UH refuses to engage in Aloha 'Āina with the cultural practitioners and rightful stewards of this land. If this is illegible to you, then maybe reflect on why you've chosen "Aloha 'Āina" as a value because it certainly for love of the land.

Comments on Goal and Objectives: One of the frequent refrains of TMT supporters is that jobs and education will go to Hawaiians somehow improving the livelihoods of those Hawaiians. But this is a promise that has been made before and seems empty without explicit, measurable, and enforcea...
Submittal Number:  92
Date submitted:  10/15/2021
Name:  Greg Ruhland
Organization:  
City, State, Zip:  Hilo, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I have lived in Hilo for the last 36 years. I have had my children in this community and now have four of my 11 grandchildren living in Hilo. My son has returned with his wife and they are both physicians in the Hilo emergency room. I wholeheartedly support the community of Hilo and the big Island and especially projects that will contribute to educational opportunities and potential employment opportunities for my family and other big island families. I wholeheartedly support the development of the TMT project on the summit of Maunakea.
Greg Ruhland MD
Submittal Number: 93
Date submitted: 10/15/2021
Name: Michael Hoenig
Organization:
City, State, Zip: Honolulu, HI
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am a former employee of one of the current telescopes on Maunakea, so I think I am qualified to say that UH has done a masterful job of managing the mountain over the past 20 years! Especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii, and of course I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT gets built. Maunakea now constitutes some of the best managed state-owned land in Hawaii. Please keep up the great work!
Submittal Number: 94
Date submitted: 10/15/2021
Name: Douglas Murata
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I fully support UH's role and responsibility as the managing entity over Mauna Kea for the last 20 years, and further support its efforts with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the more significant projects to ever be developed in Hawaii and I wholeheartedly agree with the intent to complete it. Mauna Kea is now some of the best managed state-owned land in Hawaii and its steward has a mandate to look forward to its future, now more than ever. Please keep it up. Imua TMT!
Konveio General Comment Forms

Submittal Number:  95
Date submitted:  10/15/2021
Name:  Laura Moffat-Cintron
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:  I am in favor of TMT.
Comments on education, research, and astronomy facilities in the MKSR:  I favor TMT at Mauna Kea.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  96
Date submitted:  10/15/2021
Name:  Laura Moffat-Cintron
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:  I am in favor of TMT.
Comments on education, research, and astronomy facilities in the MKSR:  I favor TMT at Mauna Kea.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 97
Date submitted: 10/15/2021
Name: Tom Walton
Organization:
City, State, Zip: KAILUA KONA, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I support TMT and astronomy on Mauna Kea
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  98
Date submitted:  10/15/2021
Name:  Ruth Robison
Organization:  UH Hilo (Retired)
City, State, Zip:  Hilo, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:  I have been living in Hawai‘i since 1962, in Hilo since 1982, working at UH Hilo until I retired in 2010. Although UH has made some mis-steps in the past, it has realized the care that must be taken in managing Mauna Kea and demonstrates that in the new M
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  99
Date submitted:  10/15/2021
Name:  Charles Caldwell
Organization:
City, State, Zip:  Mountain View, Hawaii  0
Comments on Missions, Vision, and Values:  I support TMT
Comments on Goal and Objectives:  I support TMT
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:  I support TMT
Comments on access management facilities:  X
Comments on proposal review process:
Comments on design guidelines:  I support TMT
General/Other comments:  I support TMT
Submittal Number: 100
Date submitted: 10/15/2021
Name: Thomas Browder
Organization: Univ. of Hawaii
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done an excellent job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the most inspiring projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure that the TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. I strongly support the completion of the TMT on Mauna Kea.
Submittal Number: 101
Date submitted: 10/15/2021
Name: Jon Sobstad
Organization:
City, State, Zip: Kaunakakai, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 102
Date submitted: 10/15/2021
Name: John Learned
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I don’t support TMT or UH controlling Maunakea lands. Land back! A’ole TMT!
Submittal Number: 103
Date submitted: 10/15/2021
Name: Tina Carvalho
Organization: Pacific Biosciences Research Center, UHM
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hawaii is in a position to further critical research with facilities such as these. Please suppose the education and well-being of Hawaii and global residents by building and supporting TMT!
Submittal Number: 104
Date submitted: 10/15/2021
Name: Peter Daspit
Organization:
City, State, Zip: Kailua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I'm with King Kalakaua in terms of supporting science in Hawaii, and adding to the knowledge of the stars.
I'm with Kalepa Baybayan in terms of supporting TMT in the continuing search for that knowledge.
I'm with all those who know that worship of the past can't be all-consuming now, any more than it ever was in the past.
Submittal Number: 105
Date submitted: 10/15/2021
Name: Don Nunes
Organization:
City, State, Zip: Hilo, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I want the new telescope installed for astronomy and education for our younger people
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 106  
Date submitted: 10/16/2021  
Name: William Lyon  
Organization:  
City, State, Zip: Haleiwa, Hawaii 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I support TMT being built as planned on Mauna Kea!  
I have no doubt it is appropriate to build it there. I have visited the summit at least 30 times and have brought friends and family with me to observe it and have never had any one of my companions feel anything inappropriate about what was taking place at the summit.  
Most if not all of the detractors I have spoken with, have never gone to the summit! How can your opinion be counted if you have never visited or even planned to visit the summit. Mahalo for your time.
Submittal Number: 107
Date submitted: 10/16/2021
Name: Charles Walters
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: 

Submittal Number: 108  
Date submitted: 10/16/2021  
Name: Mary True  
Organization:  
City, State, Zip: Pepeekeo, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I just want you to know that I fully support the TMT. I think Hawaii Island’s economy really needs this shot in the arm. Loud voices from the minority should not be allowed to undermine this wonderful project.
Submittal Number: 109
Date submitted: 10/16/2021
Name: Shannon Murphy
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The UH has gone above and beyond following procedure and trying to get input from even fringe stakeholders in its management of Mauna Kea. TMT will have an enormous impact on astronomy as a whole and on the perception and practice of science in Hawaii in particular, a direction we need more than ever.
Comments on missions, vision, and values:

Comments on goal and objectives:

Comments on strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: No one has said it better than King David Kalakaua: “It will afford me unfeigned satisfaction if my kingdom can add its quota toward the successful accomplishment of the most important astronomical observation of the present century and assist, however humbly, the enlightened nations of the earth in these costly enterprises.”

UH has done a good job of managing Mauna Kea. TMT is one of the best projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.
Submittal Number: 111
Date submitted: 10/16/2021
Name: Johannes Stoessl
Organization: University of Hawaii
City, State, Zip: Honolulu, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  112
Date submitted:  10/16/2021
Name:  John Griffith
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I am strongly in support of the incredible opportunities provided by the Thirty Meter Telescope. I want my children to be able to continue and advance the proud native Hawaiian tradition of studying the stars. I am thrilled by the help this project presents to our local Ohana and scientific communities. Please do not let this opportunity slip away.
Submittal Number: 113
Date submitted: 10/16/2021
Name: Linda Soll
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 

General/Other comments: Thank you for your efforts to promote Mauna Kea astronomy. The TMT would continue UH’s position doing world-class research on Mauna Kea, and benefit so many of us. Please support TMT and all the good-paying jobs it would provide and all the opportunities for educating our keiki.
Submittal Number: 114
Date submitted: 10/16/2021
Name: Laurence Ward
Organization:
City, State, Zip: Honolulu, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha kakou,
I have been a resident of Hawaii since 1966, graduating from Roosevelt High School and the University of Hawaii at Manoa. During this time as well as later after obtaining a naturopathic medical degree from the mainland I also studied the Hawaiian language, interacted with native cultural practitioners and participated in a committee tasked with coming up with a licensure law covering the practice of native Hawaiian healing arts. I also have had a strong interest in astronomy since my youth with my own home-built telescope. I regard the top of Mauna Kea as the crown jewel of global astronomy and have been fascinated with the world class research and findings originating from the various telescopes on the summit. This spirit of exploration and discovery is totally in alignment with the culture and outlook of the Polynesians who first populated the Hawaiian Islands over eight hundred years ago.
I trust the University of Hawaii to be the best impartial and responsible stewards of the Maunakea summit and recognize that there is no place on earth better suited for the placement of the Thirty Meter Telescope than that summit. I hope the University of Hawaii is doing everything in its power to make sure that the TMT is built to unlock the next phase of exploration and discovery we need as we move closer to the eventual expansion beyond our planet.
Please keep up the good work and thank you.
Laurence Ward
Submittal Number: 115
Date submitted: 10/16/2021
Name: Barbara Ells
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: The TNT is a part of Hawaiian heritage. The beginning of the Hawaiian Islands started without anyone knowing what was here. The TNT will give us a hint of what is waiting for us in the universe. Hopefully these hints will help, rather than hinder. Good luck, blessings and hope with this mission.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 116
Date submitted: 10/16/2021
Name: Marcia Nora
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I’m in favor of the TMT Project
Submittal Number:  117
Date submitted:  10/16/2021
Name:  Carol Carpenter
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The TMT is vitally important to Hawaii. It will bring so many good things to the islands like jobs, tourist dollars, educational opportunities, etc., and we need all these things. Construction should start as soon as possible and protestors should not be allowed to halt or stand in the way of progress.
Submittal Number:  118
Date submitted:  10/16/2021
Name:  Lindy Pounds
Organization:
City, State, Zip:  Honaunau, HI  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Konveio General Comment Forms

Submittal Number:  119
Date submitted:  10/16/2021
Name:  Alberta Freidus-Flagg
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. Please firmly commit to UH doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii.
Submittal Number: 120
Date submitted: 10/16/2021
Name: Christine Fukui
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a great job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It will contribute to education, research, increasing knowledge in astronomy and is a green and clean industry! I hope UH is doing everything in its power to ensure TMT is built. Do not let it be built in the Canary Islands! Let it be built in the United States to benefit all of us. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 121
Date submitted: 10/16/2021
Name: Lloyd Dunn
Organization: Lloyd's
City, State, Zip: Kailua Kona, hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I believe history will not smile if the TMT never comes to Hawaii. Everyone knows that the old Hawaiians were astronomers, much more advanced than many of the world's astronomers at the time. To defeat the TMT means to defeat science and progress. I know everyone wants something to fight for or fight against. Some people even don't know what they want but are always ready to fight for it. I get that. Unfortunately saying NO to the TMT is a little like the Taliban, a group against education and progress.
Submittal Number:  122
Date submitted:  10/16/2021
Name:  Cory Lar Rieu
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I support the TMT project.
Konveio General Comment Forms

Submittal Number:  123  
Date submitted:  10/16/2021  
Name: John Lockwood  
Organization:  
City, State, Zip:  Hilo, HI 0  

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  

General/Other comments:  The plan is well-done and comprehensive, but limits space. PLEASE INDICATE SUPPORT FOR THE TMT!
Submittal Number:  124
Date submitted:  10/16/2021
Name:  Larry Painton
Organization:  
City, State, Zip:  Kamuela, Hi  0

Comments on Missions, Vision, and Values:  A well balanced plan making Room for all is essential to the well being of the youth of Hawaii.  They are the ones who will receive the greatest benefits.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 125
Date submitted: 10/16/2021
Name: Martin Bessner
Organization: University of Hawaii
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Hawaii has a long tradition of exploring the sky and TMT is the logical continuation of that. As largest telescope planned on the northern hemisphere it could revolutionize our knowledge about the universe. It might even find signs of life elsewhere in the universe. I don't think we should miss this opportunity. I support UH’s plan to build the TMT.
General/Other comments: To whom this may concern,

My name is Dyson Chee and I am a 19-year-old resident of Ala Moana. I am also a student at the University of Hawaiʻi at Mānoa. I am submitting this testimony regarding the construction of the TMT.

While I believe that astronomy is an important part of scientific development, I do not believe that it trumps the cultural importance of Mauna Kea. It is stated in the Draft Master Plan that the University of Hawaiʻi recognized both the cultural and environmental significance of Mauna Kea. However, a Civil Beat article also stated that, "The goal for most telescope decommissioning is to return the site to its natural state. In this case, that might not be feasible, according to Jennifer Scheffel, a senior environmental planner with SSFM. ‘We aren’t taking it back to the historical conditions. That was considered, but determined to not be feasible for a variety of reasons,’ Scheffel said, adding that the site has already been disturbed by past construction, and that fill materials wouldn’t be suitable for habitats for the wekiu bug endemic to the Mauna Kea summit" (Lovell, 2021).

While I understand the reasoning for being unable to restore the site to its natural state, the inability to do so still reflects poorly upon the University of Hawaiʻi as an environmental and cultural steward. Though these older telescopes were built a long time ago, clearly the impacts of building them are still affecting us today. The same goes for the cultural and social injustices that Native Hawaiians faced and continue to face today.

As a Japanese Korean with not a drop of Hawaiian blood in my veins or Hawaiian history in my family, I defer to the leaders of the Kanaka community as to what the best solution would be regarding TMT. It is particularly sacred Native Hawaiian land and therefore I believe that Native Hawaiians should hold the most sway in the decision-making. I urge the University of Hawaiʻi to take a similar approach that is rooted in the Kanaka community.

At the same time, I am greatly appreciative of the time and energy inputted into the Draft Master Plan, and hope that the University of Hawaiʻi will proactively seek to engage and empower Native Hawaiians on local developments beyond TMT. Thank you for the opportunity to share my testimony.

Sincerely,

Dyson Chee
Submittal Number: 127
Date submitted: 10/16/2021
Name: Robert Maynard
Organization:
City, State, Zip: Kailua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The time is right to advance science on Mauna Kea with the new, powerful TMT. It's good for Hawaii; it's good for humanity
Submittal Number: 128
Date submitted: 10/16/2021
Name: Nancy Lundblad
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: The educational opportunities (world-wide, and including far more than astronomy) should NOT be limited by a few loud complaints. Take care of the environment AND do research, education to include that these are not mutually exclusive and that coexistence
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 129
Date submitted: 10/16/2021
Name: Nrian Fsgsn
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: I support the TMT. Continue the heritage of exploration of the unknown   Mahalo.
Submittal Number: 130
Date submitted: 10/16/2021
Name: Carl Emerson
Organization: 
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values: The University has the right values and vision for the Mauna
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: The University has always done a wonderful job of managing the mountain, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. I am 100 percent in favor of building TMT on the mountain. TMT and astronomy as a whole is the best thing to happen to all of our island communities. After seeing the master plan I am sure they will continue to be the best choice for stewards of the Mauna. Thank you
Submittal Number:  131
Date submitted:  10/16/2021
Name:  Jada May Areola
Organization:
City, State, Zip:  Honolulu, Hawaii  0
Comments on Missions, Vision, and Values:  The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Konveio General Comment Forms

Submittal Number:  132  
Date submitted:  10/16/2021  
Name:  Melanie Long  
Organization:  
City, State, Zip:  Honolulu, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  Why would we ever RE-purpose Halepōhaku? No  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  Please allow TMT to utilize the space they have the lease to use. The right to use. Our world needs hope, ways to discover good to help our world, and a way to bring countries together again to work together. Learning is so important. Our young engineers and more, can come home and work with our Hawaiʻi Astrophysicists and more. Please do what you can to empower our Hawaiians and all people of Hawaiʻi and the world with what can be discovered. As people that empower students with knowledge, I cannot imagine you not doing what is Pono. Give our great mauna the power to help knowledge spread and grow.
Submittal Number: 133
Date submitted: 10/16/2021
Name: Thomas Loudat
Organization:
City, State, Zip: Kaneohe, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is of immeasurable value to humanity, science, the State of Hawaii and the Big Island. Time to get this project done before we are all dead and cannot enjoy the discoveries to be made.
Submittal Number: 134
Date submitted: 10/16/2021
Name: Calvin Hutton
Organization: Hutton, Calvin L
City, State, Zip: Aiea, HI 0

Comments on Missions, Vision, and Values: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 135
Date submitted: 10/16/2021
Name: Ali Bairos
Organization:
City, State, Zip: Kealakekua, Hawai'i  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The TMT project is a visionary project directly furthering the aspirations and dreams of our ancestors; completion of the project will immeasurably enhance opportunities for local kids who want to remain in our island home and secure a good living. I trust that UH will stand strong on the right side of history and see this project through to fruition.
Submittal Number: 136
Date submitted: 10/16/2021
Name: Norma Pershing
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I fully support TMT and UH. We need the telescopes on Mauna Kea and it's crucial, not only to our economy but to humankind as a whole. Hawaii should be honored to have the best viewing of the stars, in the entire world! I respect the protester's point of view but I also would like to ask a question, "would you deny humanity as a whole based on the past?" I went to a local high school and our motto was "Imua" or "move forward", and I believe as a part-Hawaiian myself, that we need to move forward.
Submittal Number: 137
Date submitted: 10/16/2021
Name: John McDonnell, M.D.
Organization: UH JABSOM, Dept of Medicine
City, State, Zip: Kailua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I support UH’s efforts in maintaining and continuing Astronomy studies on Mauka Kea. Please continue to support these valuable efforts for the benefit of the future of all people, especially people of Hawaii. Let us all work together peacefully. Thank
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Konveio General Comment Forms

Submittal Number: 138
Date submitted: 10/16/2021
Name: Donavan Jones
Organization:
City, State, Zip: Ewa Beach, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support your ages plan for Maunakea. They are the perfect steward for this mountain.
Submittal Number: 139
Date submitted: 10/16/2021
Name: Susan Miyasaka
Organization: Private citizen
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The University of Hawaii has served as a good steward of Mauna Kea Science Reserve. Entomologists were hired to study the wekiu bug and impacts of TMT and other observatories on this native insect. During a talk given by the entomologist in charge, I learned that the proposed location of TMT was moved to an area with minimal impact on the wekiu bug. Also, I learned that removal of proposed observatories could have a greater negative impact than leaving current, obsolete observatories in place. I support the continued stewardship of the Mauna Kea Science Reserve by the University of Hawaii, because stewardship should be based on scientific studies.
Submittal Number: 140
Date submitted: 10/16/2021
Name: Lon Hocker
Organization:
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Please let it be built.
How sad it is that this is even being discussed.
I have a BA in Physics from Princeton and a PhD in Physics from MIT.
Religion is passing on beliefs.
Science is the search for reality without being hindered by historic understandings.
UH should not be a religious institution, but a scientific institution.
The many parts above are really politics: who makes money from the project. I wish you luck on getting through that mine field.
PLEASE LET IT BE BUILT!!!
Submittal Number: 141
Date submitted: 10/16/2021
Name: John Pierce
Organization:
City, State, Zip: Waikoloa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I strongly believe that Hawaii is in danger of losing its premier position as the number one Astronomical site in the World. Why? It's inability to stand up to a MINORITY that is vocal and aggressive. The MAJORITY of Hawaiian residents support science
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: We are being offered an amazing opportunity for educational grants and opportunities for the youth of our State by the TMT group. Do not let a vocal of wrong minded, anti-science, malcontents destroy this opportunity for our keiki.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Konveio General Comment Forms

Submittal Number: 142
Date submitted: 10/16/2021
Name: Andy Andrews
Organization:
City, State, Zip: Pahoa, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: UH has done an excellent job of delicately balancing a multitude of uses with the careful continued protection of Mauna Kea. The people of the State of Hawaii (and beyond) think of the mountain as many things, ranging from a simply beautiful location seen
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 143
Date submitted: 10/17/2021
Name: Sara Olsen
Organization: UC Berkeley
City, State, Zip: Pacifica, CA 0

Comments on Missions, Vision, and Values: The development of Mauna Kea is clear desecration. If rectifying injustice is a goal of this plan, then its land-use prescriptions must protect AGAINST the desecration and destruction of sacred 'aina. This is not just a Native Hawaiian issue but one of justice that asks us to confront the degree of harm we are willing to inflict in the name of research and monetary reward - the degree of damage we are willing to accrue with our community.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 144
Date submitted: 10/17/2021
Name: Lisa Crampton
Organization:
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am supportive of this Plan's balance of stewardship of the natural resources, awareness and consideration of cultural issues, and drive to continue to conduct excellent science and education on the Mauna.
Submittal Number: 145
Date submitted: 10/17/2021
Name: Emma Seymour
Organization:
City, State, Zip: Honolulu, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is a powerful image for education and job opportunities here in Hawaii. We are losing too many of our young educated people to jobs on the mainland where there are so many more options. Astronomy is so important as a science for the Hawaiian people. That's how they arrived here in the first place. UH has a sound plan in place and must be permitted to implement its excellent plan!
Konveio General Comment Forms

Submittal Number: 146
Date submitted: 10/17/2021
Name: Tehani Maielu
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Kanaka Maoli are begging UH to stop desecrating the Mauna that has been a sacred part of this island's native culture for generations. Continuing this course of action is racist, anti-indigenous, and continues the long legacy of broken promises that colonialist forces have brought to this land. The hurtful truth is that I don't think the saddened voices and oppositions of Kanaka Maoli will stop you. UH has never cared about it then and it will not shock me if UH continues to not care about it now. Your lack of empathy towards Indigenous cultures and blatant disrespect are evident. Yet, here I am. Another Kanaka Maoli asking that UH stop defiling the sacred mountain of my ancestors and praying that you will listen.
Submittal Number: 147
Date submitted: 10/17/2021
Name: Sylvia Dahlby
Organization:
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Overall, the University of Hawaii has done a fine job of improving the management of Mauna Kea resources over the last 20 years, and while there's always room for improvement, I especially appreciate the University's efforts to obtain a permit and support construction of the Thirty Meter Telescope. I value Hawaii's leadership in exploration and discovery, and I'm proud of the accomplishments of all the telescopes on Mauna Kea in the advancement of human knowledge. The Thirty Meter Telescope will continue this legacy of scientific excellence, international cooperation & collaboration, and STEM education for Hawaii's students. The University has taken many steps to improve its stewardship in response to issues brought to light by those who oppose astronomy on the Mauna. I feel this opposition is directed at the wrong target, and Astronomy is being used as a lightning rod for the Hawaiian Sovereignty movement. Sweeping Astronomy from the Mauna does not advance the righteous cause of social justice, and would be a detriment to the Big Island's economy and higher education system. I hope the UH is doing everything in its power to ensure the continuation of astronomy as a vital part of Hawaiian culture on the mauna, and this includes the decommissioning of legacy telescopes as well as construction of the Thirty Meter Telescope. Mauna Kea is some of the best managed state-owned land in Hawaii, keep up the good work. Imua Astronomy! Imua TMT!
Konveio General Comment Forms

Submittal Number: 148  
Date submitted: 10/17/2021  
Name: Paula Kamiya  
Organization:  
City, State, Zip: Waikoloa, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I am for the TMT. I am a retired educator and am for this wonderful opportunity to further our knowledge.
Submittal Number: 149
Date submitted: 10/17/2021
Name: Chantell Cambia
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Stop construction, occupation, and commercialization on stolen Hawaiian lands, especially Mauna Kea. The master plan you (University of Hawai‘i) are continuing TMT telescope development on Mauna Kea should be terminated. You are disregarding the environmental and cultural significance of Mauna Kea and all Hawaiian lands. Consent of Kānaka Maoli (Native Hawaiians) on what is done to their land should be your top priority. Neglecting their voices on what they think of these developments/projects being done to their land is unacceptable. No TMT development. No private lease renewals. Listen to Hawaiians. Give HAWAIIAN LAND BACK TO HAWAIIANS!
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies: I am a resident of Puna, a poorer region of the Big Island. I am alarmed at the extent to which a tiny mob of fanatical extremists has been able to seize control of this important issue via a biased, sympathetic mass media and cowardly politicians. There

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 151
Date submitted: 10/17/2021
Name: Rene Kimura
Organization: UH retired
City, State, Zip: 
Comments on Missions, Vision, and Values: Important for future
Comments on Goal and Objectives: Essential for Hawaii's role in the world
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 152
Date submitted: 10/17/2021
Name: Rick Wagner
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Go forward with TMT on Mauna Kea. Do not let this chance for the greatest possible observatory on earth slip away! Seize it while we have the opportunity.
Alumnus Rick Wagner, PhD
Submittal Number: 153
Date submitted: 10/17/2021
Name: Joy Memmer
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the TMT process and look forward to the growth and knowledgeable resources it will bring to our island both economically and educational. For now and future generations of mankind.
Submittal Number:  154  
Date submitted:  10/17/2021  
Name:  Thomas Pinkert  
Organization:  
City, State, Zip:  Waikoloa, HI  0

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii a

Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii a

Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:
Submittal Number:  155
Date submitted:  10/17/2021
Name:  Pete Wilson
Organization:
City, State, Zip:  Pahoa, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 156
Date submitted: 10/17/2021
Name: frederick fogel
Organization:
City, State, Zip: Volcano Village, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has been a great steward of Mauna Kea. The revised plan is a good step forward. The majority of residents, and even a majority of Hawaiians, approve the efforts to learn more about our universe on the top of Mauna Kea, one of the best places in the northern hemisphere. The "aina is sacred" argument is pretty lame considering how much the protestors violated the aina. If someone wants to challenge something, their aces in the hole are usually the environment and the courts. The Mauna Kea controversy is no exception. Perhaps paint the structures brown, black or camouflage to make them less visible from the island's perimeter.
Submittal Number: 157
Date submitted: 10/17/2021
Name: Paul Stomski
Organization:
City, State, Zip: Waikoloa, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I whole heartedly support astronomy in general on Mauna Kea. I know from first hand experience how hard all of the astronomy facilities work to be good stewards of the mountain. And I appreciate the diligence UH put in to create this new version of master plan. Nice job.
Submittal Number:  158  
Date submitted:  10/17/2021  
Name:  Jennifer Denault  
Organization: 
City, State, Zip:  Kahului, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 159  
Date submitted: 10/17/2021
Name: Norma Vasquez Payne
Organization:  
City, State, Zip: Kailua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am a descendent of the Teotihuacahn tribe (Aztecas). Every indigenous tribe has imagined what is beyond our lands and ocean. All have looked to the stars and used the heavenly bodies to dictate the path of the future generations. The TMT telescope, (any telescope(s)), and the wonderful stewardship of Mauna Kea by UH must be allowed to continue and progress.
Submittal Number:  160
Date submitted:  10/17/2021
Name:  Melissa Wheeler
Organization:
City, State, Zip:  Naalehu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Keep it up!! Get it built!! UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.  I hope UH is doing everything in its power to ensure TMT is built.  Mauna Kea is now some of the best managed state-owned land in Hawaii.  Please keep it up.  Imua TMT
Submittal Number: 161
Date submitted: 10/17/2021
Name: Carey Adkison
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a Big Island Resident I’m appalled at how quickly the various agencies cave to the dissent minority to block amazing opportunities for growth in learning about our universe. I think the TMT should be built immediately! And this plan, while a good start, needs to decisively establish that the Mauna is for astronomy and that new projects will never have to deal with the ridiculous delays caused by giving tiny groups so much power to delay. The majority want a world class astronomy location and that’s what it shall be!
Submittal Number: 162
Date submitted: 10/17/2021
Name: Pete Wilson
Organization: 
City, State, Zip: Pahoa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 163
Date submitted: 10/17/2021
Name: Victor Lee
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH is doing a wonderful job of managing Mauna Kea for over the 20 years now. And their support for obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project is essential. TMT will be one of the greatest projects to ever be developed in Hawaii, and will benefit many thousands of households throughout our great state. I wholeheartedly support its completion. UH, please keep doing everything in your power to ensure TMT is built. Mauna Kea is one of the best managed state-owned lands in Hawaii, and we despair to see it trashed by protests that leave it defiled with protesters' opala. God bless you and TMT!
Submittal Number: 164
Date submitted: 10/17/2021
Name: Joli Kenney
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I support the renewal of UH's lease and the continued research in astronomy.
Submittal Number: 165
Date submitted: 10/17/2021
Name: Judith Scheu
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: I am pleased that Hawaii has enjoyed a strong astronomy presence. It has provided educational and economic benefits for our islands. I support the stewardship the UH given and am very hopeful that the proposed telescope will be constructed on Maunakea in the near future.
Submittal Number:  166
Date submitted:  10/17/2021
Name:  Lynn Richardson
Organization:  Ola'a Banana Co.
City, State, Zip:  Hilo, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH should be doing everything in its power to ensure TMT is built.
Submittal Number: 167
Date submitted: 10/17/2021
Name: Marjorie Erway
Organization: na
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up.
Imua TMT!
Konveio General Comment Forms

Submittal Number: 168
Date submitted: 10/17/2021
Name: Michael W Kimball
Organization:
City, State, Zip: Kamuela, 0

Comments on Missions, Vision, and Values: cultural sensitivity
Comments on Goal and Objectives: inclusion of cultural practitioners
Comments on Strategies: consideration of benefits to our community

Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: information and announcements to local residents
Comments on access management facilities: X
Comments on proposal review process: yes, like recent Zoom
Comments on design guidelines:
General/Other comments: overall impact on local Community
global warming down to traffic
Submittal Number: 169
Date submitted: 10/17/2021
Name: Dennis Kim
Organization:  
City, State, Zip: Mililani, HI 0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives:  
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: As a native Hawaiian and also of part Rotuman descent, I believe that my ancestors relied on the stars to guide them across the vast oceans. In today's world, I feel that the study of the stars and skies continues that legacy. So I full heartedly support UH's continued research efforts on Mauna Kea. In particular, I believe that the TMT project will give us and future generations new knowledge about our skies and even our planet. Most of my ohana also share this belief.
Mahalo
Submittal Number:  170
Date submitted:  10/17/2021
Name:  Marc Davis
Organization:  UC Berkeley
City, State, Zip:  Berkeley, CA  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  171
Date submitted:  10/17/2021
Name:  Jan S Remillard
Organization:  citizen
City, State, Zip:  honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Comments on Mission, Vision, and Values:

Comments on Goals and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: UH has done an excellent job of managing the Mauna Kea lands it oversees as I have observed first hand since moving to this island in 1993, almost 30 years ago. Being an involved participant in the affairs of the island, and owning a local art gallery that helps to support over 200 Big Island artists for 31 years, I see the value and commitment that UH has to protecting and preserving the Mauna while helping to advance science and education and provide careers for so many in our special place. We promote the activities and advancements of the observatories in our gallery with photographs of the telescopes taken over the years and we act as virtual ambassadors to visitors explaining the activities and discoveries and accomplishments of the scientific community as well. We look forward to many future years of responsible protection of our valuable resources here on Mauna Kea.
Submittal Number: 173
Date submitted: 10/18/2021
Name: Jim Ramacher
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: This should be forward looking for Hawaii's astronomy future.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I believe TMT would be great for Hawaii economics and scientific reputation.
Submittal Number: 174
Date submitted: 10/18/2021
Name: Steven Mukai
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 175
Date submitted: 10/18/2021
Name: Peggy Regentine
Organization: Univ of Hawaii
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It will make a name for our University; it will provide jobs/careers for our people; it will be a intellectual stimulating curriculum for our...
Comments on Missions, Vision, and Values:

**Comments on Goal and Objectives:** I strongly support the TMT and the continued study of the heavens using the telescopes on Mauna Kea. Last year’s Nobel Prize in Physics was awarded in part for research done on Mauna Kea. Imua TMT.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

**General/Other comments:** UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  177  
Date submitted:  10/18/2021  
Name:  Iain Young  
Organization:  
City, State, Zip:  Hilo, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  BUILD THE TELESCOPE SO WE CAN LEARN. THAT is what education is about; learning.
Submittal Number: 178
Date submitted: 10/18/2021
Name: Mark Felman
Organization:
City, State, Zip: Kapolei, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done an adequate job of managing Mauna Kea over the last 20 years, especially noteworthy was obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT would be one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please press for progress on this vital project.
Submittal Number: 179
Date submitted: 10/18/2021
Name: Janet Mitchell
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: It’s a great plan, thank you!
Submittal Number: 180
Date submitted: 10/18/2021
Name: Martin Zebzda
Organization:
City, State, Zip: Kihei, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: Please don’t let superstition and ignorance cloud us from building the TMT on Mauna Kea. There is no rational reason why it should not be built there. None whatsoever.
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: It is in Hawaii best interest to build the TMT on Mauna Kea. It is really no decision at all. Those who oppose it argue from ignorance. They are the same type of minds that support QAnon, Anti Vaccinations, Anti-science of global warming, and the Big Election Lie. Please stand up to ignorance. These misguided individuals only hurt all of us. They know not what they do, poor souls…
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I support building the TMT. We know that a majority of people, including Hawaiians, favor this project. Please stop allowing a small minority, including the publicity seekers, the followers, the religious no compromise group, etc. to disrupt this build. We have laws governed by the United States and the State of Hawaii. Those that break the law should be held accountable. This battle was fought and won in our courts. Do not allow the project to be hijacked. If we don't stand up now for the good type of progress like TMT, we are doomed as a state.
Submittal Number: 182
Date submitted: 10/18/2021
Name: Melissa Virtue
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 183
Date submitted: 10/18/2021
Name: Louis Pau
Organization:
City, State, Zip: Pearl City, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the astronomy development of Mauna Kea. I also support the removal of older telescopes.
I strongly recommend UH renegotiate the lease agreements and possibly make it triple net to be able to participate in the upside of financial gains.
There also should be a Mauna Kea fee for the observatory similar to common area management (CAM) that is similar to condominiums to help manage the resources and have a slush fund to demolish and remove old telescopes should the parent company be insolvent.
Submittal Number: 184
Date submitted: 10/18/2021
Name: Jim Lee
Organization: Self
City, State, Zip: Keaau, Hi 0

Comments on Missions, Vision, and Values: TMT project is extremely invaluable to future of mankind existing on planet earth. Why? Observe and listen to Elon Musk have to say about multi planetary and transport man to Space station. He cares about Mankind -. Humanity and not his pocket book. The TMK is very essential to his planetary research.

Comments on Goal and Objectives: All are essential for the living of mankind before we before extinct. Before AI, nuclear missile or bomb will hit us meaning WWII

Comments on Strategies: Set foundation ASAP

Comments on Halepōhaku facilities: Build fast, simple n extremely durable for Long Term application.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: I am all for it! Need government aid to assist research. We must share with Aloha with the native Hawaiian.

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 185
Date submitted: 10/18/2021
Name: Nancy W. Withers
Organization: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I strongly support TMT.
Submittal Number: 186
Date submitted: 10/18/2021
Name: Patti Mickelsen
Organization:
City, State, Zip: Kohala Coast, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Our Ohana supports the TMT project 100% and applauds the UH efforts to bring it to fruition. The stewardship UH has demonstrated for the Mauna Kea location has been exemplary. The furtherance of scientific exploration of our solar system should be embraced by the State, and people everywhere. Mauna Kea provides some of the most stunning night skies in the world, and is ideal for these endeavors. I hope all these baseless concerns about this project will be seen for what they are - obstructionist tactics by people who do not value science and exploration of our Universe - unlike the ancient Hawaiians, who were amazing explorers and would have applauded these efforts! Imua, TMT!!!
Submittal Number:  187
Date submitted:  10/18/2021
Name:  Euclid LoGiudice
Organization:
City, State, Zip:  Pahoa, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I've lived in East Hawaii for 43 years and I've worked with many Hawaiians and still do. Most that I personally know agree with me about TMT on Mauna Kea.
I believe that TMT is a positive addition to Astronomy on Mauna Kea and offers opportunities for local people in tech jobs as well as an amazing telescope that will help answer many of the questions people like myself as well as millions around the world have about our place in the universe. The Anti-TMT Kiaʻi movement has spread numerous lies and misinformation about TMT across the globe in an attempt to gain notoriety to further a hidden agenda. TMT does not pollute the aquifer, the Aina nor is it being built on a sacred site on the Mauna. A small group of Kiaʻi have amassed a huge following via social media in the name of protecting a sacred site, using misinformation and even some famous people. TMT is a wonderful instrument for learning that, in my opinion; creates a vehicle for further understanding about our place in the universe and what could possibly be more "sacred" then this? Please: Imua TMT!
Submittal Number: 188
Date submitted: 10/18/2021
Name: George Robinson
Organization: self employed
City, State, Zip: Kealakekua, Hawaii 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: This project will bring prosperity to the Island of Hawaii. The life of the land will be perpetuated in righteousness when we look to the stars and beyond. Hawaii needs to claim its pre-eminent place in the astronomy field. The ancient hawaiians showed their prowess by navigating here through astronomy and now we can take that to the next level.
Submittal Number: 189
Date submitted: 10/18/2021
Name: Tim Waite
Organization:
City, State, Zip: Kapolei, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 190
Date submitted: 10/18/2021
Name: Tim Waite
Organization: Simpson Strong-Tie Company
City, State, Zip: Kapolei, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: We support TMT and astronomy on Mauna Kea
Submittal Number: 191
Date submitted: 10/18/2021
Name: julie shohet
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
 Comments on Goal and Objectives: 
 Comments on Strategies: 
 Comments on Halepōhaku facilities: 
 Comments on management and stewardship facilities in the MKSR: 
 Comments on education, research, and astronomy facilities in the MKSR: 
 Comments on access management facilities: 
 Comments on proposal review process: 
 Comments on design guidelines: 
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 192
Date submitted: 10/18/2021
Name: Ralph Shohet
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Native Hawaiians were stellar navigators. TMT continues this tradition. Please don’t let religious obscurantism slow down human progress.
Submittal Number: 193
Date submitted: 10/18/2021
Name: garry smith
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Great plan, it will ensure UH leads the world in astronomy. Please continue with the plans to build the TMT on Mauna Kea. This will provide a world class observatory for the education of the world.
Submittal Number: 194
Date submitted: 10/18/2021
Name: Ryan Dorrill
Organization: UH Manoa Graduate
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I'm writing as a former UH grad and Hawaii resident, and scientific PostDoc in Chicago now, to humbly state my support for TMT. While the project has been controversial over the past decade, I believe astronomy is a beautiful way to explore the universe, and one that is uniquely tied to Hawaii and her people. It's also one of the relatively less dangerous, less-harmful sciences in terms of environmental impact, especially with the safety protocols and precautions put in place for TMT, while giving us incredible insight into our place in the universe.
And regardless of whether TMT itself is eventually built or not, I hope astronomy in Hawaii can continue and part of our university, local education system, and outreach efforts throughout the state.
Submittal Number: 195
Date submitted: 10/18/2021
Name: Thomas Giguere
Organization: Amateur astronomer
City, State, Zip: Kapolei, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The new master plan for Mauna Kea provides the vehicle to move forward with the TMT telescope while preserving the environment while respecting native Hawaiian wishes for the mountain. The TMT telescope is an amazing instrument, with cutting edge optics, and will provide all people of Hawaii and the world with the ability to see further into the origins of the universe that we all share.
Submittal Number: 196
Date submitted: 10/18/2021
Name: Melvin Ah Ching
Organization:
City, State, Zip: Honolulu, HI
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: From when I was a little kid astronomy and space travel have always been an interest of mine. I am not in the astronomy or space travel business, but I admire those who study the stars and prepare mankind for more travels beyond our atmosphere.
That all said I am a HUGE supporter of astronomy on the peaks of Mauna Kea. The University of Hawaii should encourage and certainly continue to use the mountain for the study of astronomy. I have read and seen many of the great things that the telescopes have found in the several decades they have been in operation on Mauna Kea.
Astronomy is a GREAT industry for Hawaii; one that can employ hundreds if not thousands of people on the islands directly with many other industries supporting astronomy. This can only be good for our economy and future.
As for the TMT I am in full support of them pushing ahead to get the telescope built. With the volcano eruption on Palmyra Island now messing up observations there, I can't see TMT actually going there in the future. Hawaii is their first choice. They have the legal clearance from the State Supreme Court. Build TMT as soon as possible.

By the way I am PART Hawaiian/Chinese and was born and raised on the Island of Hawaii. I now live in Honolulu but I still consider the Big Island my home.

Don't let the screamingly loud vocal minority of Hawaiian activists with political agendas bigger than TMT get in the way of continued astronomical study and support on Mauna Kea.

Happy observations and I look forward to seeing and reading about more discoveries in the future.

Aloha,
Melvin Ah Ching
Submittal Number: 197
Date submitted: 10/18/2021
Name: J H
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Mauna a Wākea, also known as Mauna Kea, is the piko (center) of the Hawai‘i Island and its people. This sacred mauna (mountain) is the tallest in the world from the seafloor and a place where traditions, culture and gods live in perpetuity. It is also home to a freshwater aquifer that nourishes all of the people and ʻāina (land) of Hawai‘i Island.

The Mauna Kea movement has often been misrepresented as a clash of culture versus science, but that is inaccurate and a diversion from what is actually on the line. This fight is about Indigenous peoples’ land rights, self-determination, and the protection of their sacred spaces. This is about trying to prevent irreparable damage and contamination of a freshwater aquifer that sustains the people of Hawai‘i Island. This is about a dangerous precedent that would be set by constructing a 30-meter,18-story structure on an island that, otherwise, would not allow any structure of this height.
Submittal Number: 198
Date submitted: 10/18/2021
Name: Xerxes Tata
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Mauna Kea is among the top observing sites on Earth (if not the top site). UH has the privilege to shepherd the telescopes on Mauna Kea and has done a good job of this over the last many decades. I hope that this will continue in the foreseeable future, and that despite the controversy, will be able to usher in the Thirty Metre Telescope which will be one of the great instruments that will do cutting edge, international-quality science. Facilities such as the TMT will bring positive attention and prestige to UH and diversify the reputation that the state already enjoys as a great tourist destination. As the flagship state university, UH should do help marshal in new scientific and technological projects that use to advantage of the state's geographical location and diversify the economy of the state.
Submittal Number: 199
Date submitted: 10/18/2021
Name: Christopher James
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I just wanted to voice my support for the TMT project. It is important for Hawai‘i and humanity. Thank you.
Submittal Number: 200
Date submitted: 10/18/2021
Name: Carol Long
Organization:
City, State, Zip: Wahiawa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: While I respect our Hawaiian community, I also believe in science. TMT is for the whole world. We need to look toward the future.
Submittal Number: 201
Date submitted: 10/19/2021
Name: Bettie Van Overbeke
Organization:
City, State, Zip: Pahoa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support TMT as a positive contribution to Hawaii Island, education and scientific discovery. It has everything to offer. I find the constant lies about sewage, water, and power to TMT to be reprehensible. TMT has met all requirements and should be built. TMT will improve life on Hawaii Island. I have lived in Hawaii 33 years and taught science at Pahoa.
Submittal Number: 202
Date submitted: 10/19/2021
Name: Britta Nana Jacobson
Organization:
City, State, Zip: Kailua kona, Hi. 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Much Mahalo for your stewardship of Mauna Kea summit lands for the last twenty years. I hope that your continued caretaking continues. I feel that the Big Island is a very special place where both a modern “build back better” and the legacy of Hawaii...
Submittal Number:  203
Date submitted:  10/19/2021
Name:  KENNETH SCHMIDT
Organization:
City, State, Zip:  MILILANI, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 204
Date submitted: 10/19/2021
Name: Marian Fieldson
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 205
Date submitted: 10/19/2021
Name: Richard Marshall
Organization:
City, State, Zip: Pearl City, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I just wanted to support the TMT and astronomy as a focus of UH for the students and adults who can seek careers in this field. Hawaii residents are blessed with what may be one of the premier environments for such study, an gifted opportunity not to be wasted which also helps diversify our economy with minimal negative side effects.
Appreciate your time,
Ricard Marshall
Submittal Number: 206
Date submitted: 10/19/2021
Name: William Pyle
Organization:
City, State, Zip: Pukalani, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The plan looks good, we should stop delaying this and proceed with construction. The very small minority who is objecting consist of less than one-tenth of one percent of the general Hawaii population, and as such they should not really have any say over what is happening up there.
Submittal Number:  207
Date submitted:  10/19/2021
Name:  Christopher Tipton
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Given how well UH has managed the lands of Mauna Kea over the past two decades, I support this draft plan. I hope that following the adoption of this plan that the Thirty-Meter Telescope can be constructed.
Submittal Number:  208
Date submitted:  10/19/2021
Name:  Kim Magnuson
Organization:
City, State, Zip:  Papaikou, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:  I feel the TMT would certainly help education, and science and would be very beneficial to this island.  I highly recommend.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I definitely support the TMT proposed, as it would benefit so many people for decades.  it would be a wonderful learning experience and give our keiki a chance to grow up learning more about the solar system and our part within it.  It is not a big polluting industry like much of manufacturing.  It doesn't require mining for decades or deforestation and would be very minimal as far as an environmental problem.  The jobs created would be well paying and clean.  Wishing it a great future and thanks for allowing my input.
Kim T. Magnuson
Submittal Number: 209
Date submitted: 10/19/2021
Name: Lynn Beittel
Organization:
City, State, Zip: Kamuela, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I strongly support astronomy in Hawaii. In addition to Mauna Kea being one of the best places in the world to study the universe, the observatories have contributed a lot to local communities through hosting and sponsoring educational events and programs for students of all ages. Here are a few that come to mind: AstroDay, Ellison Onizuka Day, The Akamai Workforce Initiative Program, lectures and demonstrations in the public schools, field trips to the summit for high school students from Hawaii Island and other islands, Keck lectures with visiting astronomers, The Waimea Solar System Walk and STEM scholarships for colleges.
Submittal Number: 210
Date submitted: 10/19/2021
Name: GinnyJo Minamishin
Organization:
City, State, Zip: Kailua-Kona, HI 0

Comments on Missions, Vision, and Values: The indigenous people of Hawaii have an internationally recognized human right to self-determine and have over the past 12 years clearly exercised that right and said “NO” to the building of TMT on Mauna Kea which is “100% stolen Hawaiian lands”. For decades kanaka maoli have been vigorously advocating for our beloved Mauna Kea, and within the past 12 years have many demonstrations through Hawaii and the world, in opposition to this building of a thirty meter telescope on Mauna Kea. Tens of thousands marched in Protection to save our beloved and sacred Mauna Kea. Over half a million kanaka maoli, Hawaii residents, as well as worldwide have have provided testimony at court hearings, in support of opposing TMT on the summits of our sacred Mauna Kea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 211
Date submitted: 10/19/2021
Name: amy silva
Organization: 
City, State, Zip: , 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: Hello- I'm writing in solidarity with native and indigenous groups who have been fighting to protect Mauna Kea for years. The indigenous people of HI have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea-- which is 100% on stolen Hawaiian lands. For decades, Kanake Maoli have been vigorously advocating for this protection, including mass demonstrations throughout Hawai'i and abroad in opposition to building TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai'i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of TMT on the summits of Mauna Kea.
Submittal Number: 212
Date submitted: 10/20/2021
Name: Lisa Forkish
Organization:
City, State, Zip: Honomu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I stand in solidarity with the kānaka maoli kia‘i and say NO to building the thirty-meter telescope here on stolen lands. I am a white-bodied immigrant here in the Kingdom of Hawai‘i and I do not support ANY further building or development on Mauna Kea. This is a sacred site for Hawaiians and should be left alone.
Submittal Number: 213
Date submitted: 10/20/2021
Name: Tabitha Bergevin-Krumme
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Native Hawaiians have not consented to this project and your own studies found that previous and ongoing operations of your other telescopes have caused significant environmental and cultural harm. Please do not continue plans or work for this new development and respect the land and people who have lived there for centuries.
Submittal Number:  214
Date submitted:  10/20/2021
Name:  Curen Ohama
Organization:  
City, State, Zip:  Makawao, HI  0
Comments on Missions, Vision, and Values:  I'm blown away UH still wants the TMT to be built on Maunakea. Why doesn't NO mean NO?
There is no sacred way to build it.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 215
Date submitted: 10/20/2021
Name: ALICE ROGERS
Organization:
City, State, Zip: MILILANI, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Mauna Kea is an extinct volcano - it is primary in viewing the sky and its planets. The Hawaiians are debasing their history - King Kalakaua was an avid star gazer - it is how the Hawaiians got here in the first place from Micronesia or wherever - they are First People not indigenous. They have destroyed parts of Mauna Kea with their protests - they have trampled plants not found elsewhere and killed them. As usual they have left mounds of trash and because they are lazy, have not cleaned anything up. It is probably why they are no longer literate as they were in the last 1800's. They have done nothing notable for years. I totally support the proposed Telescope - which will provide jobs, and information on the heavens. I was born in Kapiolani Hospital.
Comments on Missions, Vision, and Values: Indigenous people of Hawai'i have an internationally recognized right to self-determination and have over the past 12 years clearly exercised that right and said no to the building of TMT on Mauna Kea which is entirely stolen Hawaiian lands. For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of TMT on Mauna Kea. Tens of thousands of people have occupied Mauna Kea and marched to stop the desecration of this sacred mountain. University of Hawai'i's actions to continue building on indigenous Hawaiian's sacred mountain shows that University of Hawai'i has no care or concern for stewardship of the land that was forcefully taken from its rightful caretakers. University of Hawai'i must do better than those that came before and actually listen to the thousands of people demanding you do better and stop building on sacred land. It is time to stop enacting the work of colonizers, and return stewardship and ownership of this sacred mountain to the indigenous Hawaiian's.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea, which is 100% stolen Hawaiian lands.
Comments on Missions, Vision, and Values: Kanaka Maoli have been fighting to protect Mauna Kea for decades. The indigenous people of Hawai'i are exercising their human right to self-determination and opposing the construction of the Thirty Meter Telescope and desecration of stolen sacred lands.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 219
Date submitted: 10/20/2021
Name: Ana Kapihe
Organization: Laughing Buddha
City, State, Zip: Honoka’a, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support science and it’s advancement, not military. Contacting all Kapuna’s in our community would be appreciated! Mahalo
Submittal Number: 220
Date submitted: 10/20/2021
Name: Chariya Terlep-Cabatbat
Organization:
City, State, Zip: , HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I DO NOT CONSENT TO THE BUILDING OF TMT ON MAUNA KEA, EVER.
Submittal Number: 221
Date submitted: 10/20/2021
Name: Korina Makaokalani
Organization:
City, State, Zip: Hilo, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I DO NOT APPROVE OF BUILDING TMT ON MAUNA KEA, EVER.
Submittal Number: 222
Date submitted: 10/20/2021
Name: Olivia Taylor
Organization: Honolulu, HI 0

Comments on Missions, Vision, and Values: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Goal and Objectives: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Strategies: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Halepōhaku facilities: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on management and stewardship facilities in the MKSR: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on education, research, and astronomy facilities in the MKSR: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on access management facilities: X

Comments on proposal review process: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on design guidelines: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

General/Other comments: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.
Submittal Number: 223
Date submitted: 10/20/2021
Name: Ed and Darci Ernce
Organization:
City, State, Zip: Kailua, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: We support the astronomy educational and research facilities on Mauna Kea. The door of this blessing is at Hawaii's hand and we must not allow fear to prevent access to the countless benefits for All of humanity and this door must be kept open for genera

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  224
Date submitted:  10/20/2021
Name:  Kayley Rolph
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:  The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years clearly exercised that right and said NO to the building of TMT on Mauna Kea which is STOLEN Hawaiian lands
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:  For decades, Kanaka Maoli have been vigorously advocating for the protection of sacred lands. For the past twelve years there have been mass demonstrations throughout Hawai'i and abroad in opposition to the construction of the thirty meter telescope on Ma
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Respect the land and the people of this land that we as non indigenous are all guests on. Stop the destruction of sacred lands!
Submittal Number:  225  
Date submitted:  10/20/2021  
Name:  Aliya Robin  
Organization:  
City, State, Zip:  ,  
Comments on Missions, Vision, and Values:  Mauna Kea should be immediately returned to the stewardship of native Hawaiians along with monetary compensation to fix the harm that has been done. The continued occupation and desecration of sacred lands is unacceptable. The world and future generations are watching.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: Over half a million Kanaka Maoli, Hawaii residents, and world citizens have provided testimony at many hearings and signed lots of petitions opposing the creation of TMT on the summits of Mauna Kea. Please listen to there voices and act accordingly.

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  226
Date submitted:  10/20/2021
Name:  Sue Pollock
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands.
Submittal Number: 227
Date submitted: 10/20/2021
Name: El Fitzpatrick
Organization:  
City, State, Zip: ,

Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have an internationally recognized human right to self determination and over the past 12 years have used that right to say NO to the building of TMT on Mauna Kea, which is 100% stolen Hawaiian lands.

Comments on Goal and Objectives:
Comments on Strategies:

Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values: Aloha,
I am writing in solidarity with native and indigenous groups who have been fighting to protect Mauna Kea for years. The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said "NO" to the building of the Thirty Meter Telescope ("TMT") on Mauna Kea, which is located on stolen Hawaiian lands. For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea, which as been made evident by mass demonstrations throughout Hawai'i and abroad in opposition to the building of TMT on this sacred site. Tens of thousands of supports have occupied Mauna Kea and marched in a peaceful plea to stop the desecration of their sacred mountain. Furthermore, over half a million Kanaka Maoli, Hawai'i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. Kanaka Maoli have already endured too much violence on their land and people. Please do not inflict further violence on Kanaka Maoli by building the TMT on Mauna Kea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 229
Date submitted: 10/21/2021
Name: Kyle Finley
Organization:
City, State, Zip: Ewa Beach, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support astronomy here in Hawaii, and on Maunakea. Over the past few years the protestors have gaslighted our community to be against astronomy by spreading false information ie: size of actual building, claims of nuclear powered, fraudulent claims of embezzlement, even claims of it being a secret military weapon. This group of protestors might yell the loudest but they make up no majority of any group. They will never agree on any plan that includes TMT with zero room to compromise, UH tried and they turned everything down. It’s time the rest of the community get to move forward even though an agreement was not reached between both parties. There is plenty of room on that mountain for science and culture to co exist.
Submittal Number: 230
Date submitted: 10/21/2021
Name: Bean Yogi
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values: "Unfortunately, E O I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea... their resolution is beyond the scope of this Master Plan." The propositions outlined in this plan will have a huge impact on sacred Indigenous land, against the express wishes of Kanaka Maoli who have fought for years to protect it from settler exploitation. Though Native Hawaiians are no monolith, there are thousands upon thousands of Kanaka who have made their opposition to this project known.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The Indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years clearly exercised that right. They have said NO to the buildig of TMT on Mauna Kea, which exists on stolen Hawaiian lan

Comments on education, research, and astronomy facilities in the MKSR: For decades, Kanaka Maoli have advocated for the protection of Mauna Kea -- these mass demonstrations throughout Hawai‘i and the world are all in opposition to the building of TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to sto

Comments on access management facilities:

Comments on proposal review process: Over half a million Kanaka Maoli, residents of Hawai‘i, and people all over the world have provided testimony at countless hearings. They have signed petitions and shown up to demonstrations, opposing the building of TMT on Mauna Kea. Will UH listen to f

Comments on design guidelines:

General/Other comments: Pitting "science" and "astronomy" against the organized, express wishes of Kanaka Maoli leaders to protect a sacred, irreplaceable mountain is irresponsible and cruel. Hawai‘i is a land that is particularly impacted and devastated by settler exploitation and land grabs. Though Kanaka Maoli are not and cannot be "unanimous" in their support for either UH desecration or the protection of Mauna Kea, there is clearly a strong and impassioned core of the Kanaka Maoli community who does not want the TMT on Mauna Kea. There is always the option to respect these wishes and to halt any plans to further impact this precious part of the 'aina.
Submittal Number: 231
Date submitted: 10/21/2021
Name: Stephen Massey
Organization:
City, State, Zip: Paauilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hello, I worked on Mauna Kea for twelve years. I worked at the UH, IRTF, CFHT and Gemini Telescopes. I worked for five of those twelve years full-time at the summit at CFHT and stayed at Hale Pohaku during those years. I know Mauna Kea very well. I also know that it is very well managed and cared for. The planning that goes into that stewardship shows a great deal of consideration for all users and native peoples as well. I think the previous protests against the TMT were instigated and promoted by some very misguided and ignorant factions that are not a considerable part of the voting population here in Hawaii, nor of the true native Hawaiian peoples. I feel that this project needs to move forward and be supported by everyone as a win-win situation for the people of this great State of Hawaii. Please do what you can to allow this to go forward for our Keiki. Aloha, Steve Massey
Konveio General Comment Forms

Submittal Number: 232
Date submitted: 10/21/2021
Name: Richard Lawyer
Organization:
City, State, Zip: Waikoloa, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 233
Date submitted: 10/21/2021
Name: Ronald Hay
Organization:
City, State, Zip: Waikoloa, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 234
Date submitted: 10/21/2021
Name: Emma Lipschutz
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: The outrageous disregard and disrespect that this and other proposals have on the environment as well as the native Hawaiians is astronomical! Please stop this project now and either commit to fully complying with native Hawaiians or find a different place off of the Hawaiian islands. You cannot prioritize a project like this over the lives and well being of the people who’s land you’re taking. Do not be on the wrong side of history and stop taking and abusing land that isn’t yours.
Submittal Number: 235
Date submitted: 10/21/2021
Name: Jasmine Bell
Organization: University of Texas, Critical Disability Studies
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawaii have repeatedly said over the last 12 years, through demonstrations with thousands of people, countless petitions, countless hearings, and social media. They have an internationally recognized right to self-determination. To frame this plan as in collaboration with them is insidious and disingenuous. I am a long-time fan of astronomy, but to cause harm to indigenous sacred sites is not necessary in furthering the study of astronomy. Please reconsider the harm you are planning to cause.
Submittal Number: 236
Date submitted: 10/21/2021
Name: Gab Bri
Organization:
City, State, Zip: ,

Comments on Missions, Vision, and Values: If we have learned anything from the year plus of social injustice in hope of change, it is to listen to native people and people in communities affected my injustice. Native Hawaiian people have been crying out for over a decade to not proceed with this project, listen to them.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: This open communication is appreciated. I hope that the overwhelming cry from Kanaka Maoli and allies alike will halt this project indefinitely.
Submittal Number: 237
Date submitted: 10/21/2021
Name: Eric Baicy
Organization:
City, State, Zip: Hilo, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The plan is much improved. I encourage you to move forward with it and avoid delays caused by a small group of people.
Submittal Number: 238
Date submitted: 10/21/2021
Name: Kathy Reinhart
Organization:
City, State, Zip: Honolulu, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Kathy A. Reinhart
Submittal Number:  239  
Date submitted:  10/22/2021  
Name:  Wallace Ishibashi  
Organization:  Community  
City, State, Zip:  Papaikou, Hawaii  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I concur with this master plan and the vision to malama Maunakea and astronomy.
Submittal Number: 240
Date submitted: 10/22/2021
Name: Cheryl English
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: Does the mission, vision, and values include the majority opinion/awareness/ of the Hawaiian public? The lease agreement details and the permitted specified activities in this area should consider the Hawaiian people's thoughts and voices before finalizing the agreement. If not included, the land should be allowed to rest (undisturbed) for a certain few months; perhaps even 1 year out of 7 years to remain protected and untouched, allowing time for the ecosystem to rest and recover.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 241
Date submitted: 10/22/2021
Name: Jon Lindborg
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values: Balanced and well-drafted.
Comments on Goal and Objectives: Effective and responsible approach that takes into account all interests.
Comments on Strategies: Well written and balanced.
Comments on Halepōhaku facilities: Very practical approach.
Comments on management and stewardship facilities in the MKSR: Very practical approach.
Comments on education, research, and astronomy facilities in the MKSR: Very practical approach.
Comments on access management facilities: X
Comments on proposal review process: Very practical approach.
Comments on design guidelines: Very practical approach.
General/Other comments: The plan is very balanced in terms of taking into account all views and interests in ensuring effective management of Mauna Kea. I strongly endorse the plan and support its approval.
Submittal Number:  242
Date submitted:  10/22/2021
Name:  Auliʻi Ludington
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:  To whom it may concern,
My name is Auliʻi Ludington and I am currently a student at the University of Hawaiʻi at Mānoa. I am submitting this testimony regarding my opposition to the construction of the Thirty Meter Telescope on Mauna Kea.
While I acknow
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 243
Date submitted: 10/22/2021
Name: Daniel Hodel
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Konveio General Comment Forms

Submittal Number:  244
Date submitted:  10/22/2021
Name:  Dezeray Griffin
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  245
Date submitted:  10/22/2021
Name:  Lusidia Reyler
Organization:
City, State, Zip:  , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Native Hawai’ians do not accept this plan. The privilege has been taken, so give the land back. I stand with them to see Hawai'i flourish under native management.
Konveio General Comment Forms

Submittal Number:  246
Date submitted:  10/22/2021
Name:  Chris Measures
Organization:  
City, State, Zip:  ,

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  While I understand some groups wishing to preserve the top of Mauna Kea as a religious place, the use of religion to make claims to places over the rights of others is very problematic since it entitles individuals claiming a religious platform a veto over other people's wishes. This would lead to religious totalitarianism which is incompatible with a democratic system of government.
To this reviewer, the outline plan seems a reasonable way to accommodate different points of view and limits the overall impact.
Submittal Number: 247
Date submitted: 10/23/2021
Name: Karalei Wong
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: To whom it may concern,

My name is Karalei Wong, and I am a current student at the University of Hawai‘i at Mānoa. I was raised in Kāne‘ohe, O‘ahu where I still reside, and even though Mauna Kea is on Hawai‘i Island, as a Native Hawaiian that values our culture and language, I feel empowered to submit a testimony regarding my opposition to the construction of the TMT on Mauna Kea.

In March of this year, I wrote a letter to House Speaker Scott Saiki regarding Mauna Kea as a new management team was being selected for Mauna Kea. I explained to him the intergenerational trauma that Native Hawaiians face because of events in the past which is deeply rooted in the present and the future. I also outlined the years of mismanagement done by BLNR as well as the University of Hawai‘i. With that being said, the main point of my letter was to urge House Speaker Saiki, his colleagues, and this new management team to listen to the Native Hawaiians’ sentiments and feelings when making decisions about Mauna Kea. All of you know of the cultural and genealogical significance Mauna Kea has to Native Hawaiians, as there are many explanations in this Master Plan as well. Although I would like to believe this new Master Plan had good intentions to make right with Native Hawaiians, their needs and sentiments are still being ignored.

In the 1.4.1 section of this Master Plan, under the objectives, it reads that “Objectives under this Stewardship Goal include affirm[ing] and protect[ing] Maunakea as a wahi pana and wao akua” (1-4).

This objective CANNOT be met with the building of TMT on SACRED STORIED LAND or the REALM OF THE GODS. Many people would not want a thirty-meter telescope on their church or home, so Mauna Kea should not be looked at differently.

I appreciate that the University of Hawai‘i and other groups have taken a step back, and have drafted a new plan to try to reach a middle ground with Native Hawaiians, but there is no middle ground with the decades of mismanagement and continued desecration of sacred Mauna Kea. The Native Hawaiian community will continue to hurt if this kind of desecration and cultural negligence in their homeland persists. Thank you for creating an open dialogue in regards to this Master Plan of Mauna Kea. I hope you all will continue to listen and act in the interests of the Native Hawaiian community, not just those of the astronomy community.

Sincerely,
Karalei Wong
Submittal Number: 248
Date submitted: 10/23/2021
Name: Marianne Kelley
Organization:
City, State, Zip: Kula, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am in favor of completing the TMT project. It is an honor for Hawaii and will provide a lasting resource for our children.
Submittal Number: 249
Date submitted: 10/23/2021
Name: Patricia Saiki
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 250
Date submitted: 10/24/2021
Name: Giavonna Kalaiwaa
Organization:
City, State, Zip: Waimanalo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Please don’t build this telescope on the Mauna, you already built the H3 on sacred lands. Please stop destroying cultural history!
Submittal Number: 251
Date submitted: 10/24/2021
Name: Alyson Grigsby
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: I am demanding the immediate halt to the construction of the TMT, 30 Meter Telescope on Mauna Kea, Island of Hawai‘i. The TMT will cause harm to the mountain and destroy a sacred place for Kanaka Maoli’s spiritual and cultural practices. I oppose any cons

Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values: There is no value in a plan that fails to acknowledge what Kanaka Maoli have been advocating for for years. Hawaiians are mistreated and ignored on our very own land, and the irony is that we get no voice (or very little representation) in our government, in education, and in anything that impacts Hawai‘i as a whole. The anti-indigeneity of of a school “committed” to furthering Native education is appalling, and if you continue to exploit Hawaiian land and people, then you need to seriously rethink your relationship you have with Hawai‘i’s land, resources, and people.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 253
Date submitted: 10/25/2021
Name: Ty Yun
Organization: --
City, State, Zip: Kamuela, Hawaii 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up.
Imua TMT
Comments on Missions, Vision, and Values: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked the public to comment on its master plan. This is an impossible task because the University cannot write a master plan for Mauna Kea. If we have learned anything over the past half century of struggle for Mauna Kea, it is that neither the University, nor the Board of Land and Natural Resources, unilaterally control this mauna.

This is not KAHEA’s lone opinion. The master plan itself underscores the fact that neither UH nor BLNR control the mauna. The master plan claims the University is uniquely positioned to “steward” Mauna Kea because “especially Native Hawaiians” have taught it “important lessons”, yet the plan acknowledges only one “ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.” Master plan at 2, 11. The master plan also includes dozens of clauses restricting the development of new facilities and requiring observatory site “recycling”, but allows for the construction of the Thirty-Meter Telescope on an entirely untouched area of the summit. The master plan accommodates “expected continued growth in demand for [visitor] experiences on Maunakea,” yet the plan comes on the heels of the University’s new rules, which restrict and burden Kānaka Maoli cultural practitioners’ access and use of Mauna Kea. HAR chapter 20-26.

The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

. . . . The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the [Mauna Kea Summit Region], whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.

Page 2-1, n.11. The University’s retention of these lands is far from a foregone conclusion. The University master lease (GL No. S-4191, June 1968) is expiring in 2033. While we disagree with his methods and intent, the state House speaker at least recognized the need to question the University’s role. The House convened [a] Mauna Kea working group to address management alternatives that has been meeting throughout 2021 and will deliver recommendations at the end of 2021. See House Resolution No. 33 (2021). Even the University’s own Board of Regents sought “an in-depth analysis [to] be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.).” Master plan Appx. C (Resolution No. 19-03 ¶9, University of Hawai‘i Board of Regents Nov. 6, 2019). The University never provided that in-depth analysis and the Board of Regents did not demand it from them. This was a mistake.

Even a cursory analysis would have shown that any alternative would be better than the University’s apparent plan to continue its embattled role of catering to commercial and government stakeholders. Instead, the University can help to amplify and enable the careful work being conducted by communities who are committed to protecting what is sacred, ancient, and life-giving about Mauna Kea. This is going to have to start with scrapping the University’s presumption to, on its own or through its consultants, manage Mauna Kea or to decide its future.

Comments on Goal and Objectives: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked th

Comments on Strategies: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked th

Comments on Halepōhaku facilities: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.
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The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

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Page 2-1, n.11. The University’s retention of these lands is far from a foregone conclusion. The University master lease (GL No. S-4191, June 1968) is expiring in 2033. While we disagree with his methods and intent, the state House speaker at least recognized the need to question the University’s role. The House convened [a] Mauna Kea working group to address management alternatives that has been meeting throughout 2021 and will deliver recommendations at the end of 2021. See House Resolution No. 33 (2021). Even the University’s own Board of Regents sought “an in-depth analysis [to] be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.).” Master plan Appx. C (Resolution No. 19-03 ¶9, University of Hawai‘i Board of Regents Nov. 6, 2019). The University never provided that in-depth analysis and the Board of Regents did not demand it from them. This was a mistake.

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Comments on management and stewardship facilities in the MKSR: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

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growth in demand for [visitor] experiences on Maunakea,” yet the plan comes on the heels of the University’s new rules, which restrict and burden Kānaka Maoli cultural practitioners’ access and use of Mauna Kea. HAR chapter 20-26.

The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

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Even a cursory analysis would have shown that any alternative would be better than the University’s apparent plan to continue its embattled role of catering to commercial and government stakeholders. Instead, the University can help to amplify and enable the careful work being conducted by communities who are committed to protecting what is sacred, ancient, and life-giving about Mauna Kea. This is going to have to start with scrapping the University’s presumption to, on its own or through its consultants, manage Mauna Kea or to decide its future.
Submittal Number: 255
Date submitted: 10/25/2021
Name: Markus H
Organization: 
City, State, Zip: , 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I strongly support the use of Mauna Kea for the noble pursuit of astronomical discovery which benefits all of humanity.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
General/Other comments: I and my entire family wholeheartedly support the building of the TMT on Mauna Kea and the revised UH management plan. For a group of anti-science protesters to have the hubris to claim the mountain belongs only to them and therefore give them the right to obstruct a project that would greatly expand the entire world's understanding of our place in the universe has not only damaged Hawaii's reputation in the international scientific community but polarized the residents of this island. From the beginning, the intent of the TMT project has been to collaborate WITH the Hawaiian culture, not against it, like Hawaii Island's world class astronomy center at Imiloa has done. So many Hawaiians are FOR the TMT. They want all the new discoveries made at the TMT telescope to have Hawaiian names, for Hawaiians students to get the scholarships and become the star astronomers we see featured on NOVA science programs. Let THEM be the voices that are heard and lead this project forward! I feel passionate about this, and MAHALO for your consideration.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: It’s time for our local government and big business to start listening to the people. The people don’t want TMT. The people will not benefit from this project so the incentive isn’t there for us. While I don’t personally hold the mauna as a place of spiritual significance, others do and they have the right to practice their religion without your interference in their space.
Submittal Number: 258
Date submitted: 10/25/2021
Name: Lyn Ishizaki-Brown
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The TMT and construction on Mauna Kea will mean the desecration of a sacred site. Respect Hawaiian sovereignty and protect Mauna Kea, end the plans for TMT.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I understand the importance of education and discovery, but not when it involves desecrating Indigenous land. Native Hawaiians have had to contend with settlers bringing in diseases, abusing kūpuna/keiki, stealing their land and taking their resources. The TMT is just another way of taking/ruining Hawaiian land. The building of the telescope will also endanger native flora and fauna. Can't the telescope be built on non-sacred land?
The decades of UH mismanagement of Maunakea have been well-documented. UH has proposed this new Master Plan in the hopes of balancing the many competing interests regarding the Mauna. But I believe UH must adopt a fundamental reframing in its plan for the “management” Maunakea. We have seen the way controversy over observatory development has torn the Hawai‘i community apart, and UH has undeniably played a large role in that. Decades of broken promises culminated in the need for kia‘i to literally place their bodies on the line to be heard by the University and the state. This is unacceptable. The new UH Master Plan must come from humble recognition of these facts. Though it may be too late, UH must at least try to first regain the trust of the people whose land it claims to “steward.” The proposed Master Plan fails to do this, and is little different than the plan that was proposed 20 years ago. UH should draft a new plan that, at a minimum, prioritizes the creation of robust processes for receiving and implementing community input, that definitively puts an end to TMT construction, and that seeks community input with regard to telescope decommissioning.

THE MASTER PLAN FAILS TO PROVIDE A PROCESS FOR PUBLIC INPUT THAT WOULD GUIDE INTERNAL UH EVALUATION OF FUTURE PROJECTS.

UH states that the new Master Plan will provide “mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.”[1] However, the Master Plan fails to propose a concrete process for meaningfully seeking this input. The process outlined in Chapter 6 describes a complex, 4-Phased review process that future proposals would have to go through before being approved. It is not until Phase 3/4 that any opportunities for public input are identified, and even there, it is not clear what form “public input” would take.[2] Instead, the Master Plan seems to rely on other mechanisms and bodies, such as MKMB, KKM, or the DLNR, to collect public input and incorporate it into their assessment processes and recommendations. This reliance is inadequate for two reasons. First, even if MKMB and KKM were to establish avenues for public input, kia‘i and other advocates have raised concerns about the capacity for groups like MKMB and KKM to represent the broader public and Kānaka Maoli in particular;[3] the failure and inability of state agencies like the DLNR to meaningfully consider public input goes without saying.[4] Second, UH has a duty to establish its own processes for soliciting public input. UH views its “management” of Maunakea as a responsibility and a “privilege,”[5] and part of its plan for “management” must, at a minimum, include a regular process for public input. That the Master Plan does not include even a shred of commentary as to the urgent need for, and design of, some standard consultation process betrays the Master Plan’s stated goals of “Stewardship” and “Balance.” If UH seeks transparency, to “e o i ka leo,” this Master Plan cannot proceed without establishing a method for meaningful internal consideration of public input in Phase 1 of each proposal.

UH MUST DEVELOP A PROCESS FOR MEANINGFULLY RECEIVING, CONSIDERING, AND IMPLEMENTING INPUT FROM KĀNAKA MAOLI.

UH must put forward both a robust process for receiving public input, and guidelines for how that input will be received, considered, and implemented. For far too long, state agencies have provided forums for public input, but declined to meaningfully consider it.[6] While UH is not alone in its need to incorporate public input, it cannot rely on other agencies like the DLNR to do so, especially when the DLNR does not become involved in project proposals until the second or third phase of review.
But more importantly, UH must radically reframe its commitment to community input and feedback by prioritizing Kānaka Maoli voices early on. Yes, Hawai‘i is a diverse community with many diverse groups and concerns. But – said as a fifth-generation non-Native – these are stolen lands, and families like mine owe everything to the Indigenous people who have unwillingly allowed us to remain on these islands for generations. When it comes to land “development,” priority – not just consideration – must be given to the voices of the people who are the lands’ ancestral caretakers, whose connections to the land predate our ancestors’s arrivals, and who have been systematically excluded from these conversations for far too long. This is true for all of Hawai‘i, but especially so for lands as sacred and significant as Maunakea.

I acknowledge that the range of opinions regarding Maunakea within the Native Hawaiian community is diverse, and that it is not my place to speak toward them. Regarding a process for consultation, however, a starting point for developing meaningful consultation can potentially be derived through the process described by the UN Declaration of the Rights of Indigenous Peoples (UNDRIP) as “Free, Prior, Informed Consent” (FPIC).[7] (Personally, however, I believe that FPIC is too weak of a framework to ensure that Native Hawaiian rights are protected on Maunakea, especially where the U.S. government has interpreted “FPIC” to mean “consultation” – the model that arguably already exists for Maunakea.)

Equally important, as discussed above, is UH’s commitment to incorporating, not simply addressing and disregarding, the input that it receives. UNDRIP may be a starting place for this, and other places have taken steps to protect sacred Indigenous lands as well. For example, the steps that Aotearoa (New Zealand) has taken to create legal protections for Māori land.[8] UH must do more than simply respond to negative comments and plow forward with development – this will do nothing to accomplish UH’s stated goals of “Stewardship” and “Balance.” Rather, UH must make a commitment to honoring the opinions and interests that the community expresses, even where it comes at the expense of the University’s definition of “progress.” It can start by rewriting this Master Plan.

UH MUST COMMIT TO PUTTING AN END TO TMT CONSTRUCTION AND MUST NOT ALLOW OTHER OBSERVATORIES TO BE BUILT IN ITS PLACE.

It is pointless and impossible for UH to act “neutral” on the issue of TMT, in claiming to plan for both possibilities of whether or not it is constructed. Kānaka Maoli have made their position clear on the issue of TMT construction: it must not go through. The Master Plan, despite its stated desire to create a “mechanism” for public input, completely disregards this position. If UH really hopes to regain the trust of the community and do good by its kuleana to “manage” Maunakea lands, taking a stand against TMT is the first and most obvious thing it must do. Rather, the Master Plan exacerbates the problem by creating a plan in which, should TMT not get built, another observatory would be allowed to take its place. This is absolutely ridiculous and betrays the fact that, despite its claims of valuing community input, UH has learned nothing from the public outrage over TMT or any of the telescopes before it.

UH must acknowledge its failures to consult Kānaka Maoli, and the community, in its role throughout the TMT permitting process. It must also recognize the devastating impact that the TMT controversy has had on the Hawai‘i community as a whole. It may be that it is too late for UH to ever regain the trust of the Hawaiian and greater Hawai‘i community as a responsible caretaker of Maunakea. But if UH hopes to create a future that can heal these wounds on any level, it must abandon plans for TMT (or any other telescopes on that site), recognize and apologize for its failures, and begin first by listening.

THE MASTER PLAN’S POSITION ON DECOMMISSIONING IS WEAK AND MUST BE REFORMULATED WITH COMMUNITY INPUT.

UH mentions the “fortification of UH’s commitment of no more than nine operating astronomy facilities in Maunakea by December 31, 2033.”[9] The implication that there will be “nine operating astronomy facilities” is misleading – including the UH Hilo Educational Telescope, there will be ten. Furthermore, this is the same commitment that UH made to decommissioning 20 years ago, and only one of three astronomy facilities remains on schedule to be decommissioned. Excuses about how complicated the process is, or how long it takes, are unacceptable; the observatories are run by large corporations who have not only the resources but the time to plan for timely decommissioning. Rather, the delay in decommissioning, and UH’s ambivalence about it, again exemplifies the disrespect UH has historically shown toward the Mauna, and the deference it gives to astronomy corporations.

Here is one suggestion, and I welcome others: If UH wishes to propose a schedule for decommissioning that is acceptable, it should start with community input. UH should take the time to explain to the community the pros and cons of decommissioning, as well as the implications, consequences, and alternatives. Be transparent and realistic about how long the process will take. Do not go first to the telescopes and see what would work for them, then build a “commitment” around their timeline, then fail to even follow through with it. It is too late, and there is too much damage done, for UH to think it has the leeway or respect to do it any other way.

This comment is not able to discuss the UH Hilo Educational Telescope, the Multi-disciplinary Field Station, or the Master Plan’s stated intentions to increase cultural education regarding Maunakea. However, regarding each of these proposals, I reiterate the need to begin with community consultation first, not seek community approval later. While no one opposes STEM educational opportunities, or building greater appreciation for native Hawaiian culture, it cannot be at the expense of
meaningful consultation and cultural desecration. The question is not – and has never been – one of “Hawaiians versus 
arxiv astronomy.” It is one of respect for the Indigenous people of Hawai’i and their right to determine what takes place on their 
land.

ENDNOTES
1. Public input requested for new Maunakea Master Plan, UNIV. OF HAWAI’I NEWS (Sept. 12, 2021) [available at 
3. Lauren Muneoka, Managing Hawaiian opposition to the TMT, KAHEA (Apr. 4, 2021) [available at 
http://kahea.org/managing-hawaiian-opposition-to-the-tmt].
4. Consider the years of “public input” regarding TMT that were disregarded again and again by varying state 
departments. During the scoping process for TMT, hundreds of comments were submitted by Hawaiian activists, cultural 
practitioners, environmental activists, and community members, objecting to TMT’s construction. The required 
Environmental Impact Statement found that “impacts would continue to be substantial, significant, and adverse with the 
consideration of the Project (TMT) and other reasonably foreseeable future actions.” The EIS nevertheless concluded that 
the construction of TMT would “add a limited increment to the level of cumulative impact, but would not tip the balance of 
any specific cumulative impact from a less than significant level to a significant level.” The BLNR—and the Hawai’i 
Supreme Court in the subsequent 2018 court challenge—likewise granted TMT the necessary permits for its football stadium– 
sized structure.
6. For example, in prefacing its findings, the EIS for Maunakea made a deliberate distinction between “two broad 
categories of opinions”: (1) Those who believe that Hawaiian culture and astronomy can coexist on Maunakea, and therefore 
that any adverse cultural impact can be minimized in significance by mitigating measures, and (2) those who believe that any 
development or disturbance of Maunakea by someone other than a native Hawaiian is “desecration to the spiritual and sacred 
quality of the mountain.” The EIS mentions the existence of the second, but proceeded to draw all of its conclusion according 
to the first, essentially disregarding the latter opinion as irrational and irrelevant to their decision.
7. See quote from Laulani Teale in Mauna Kea Protectors Oppose UH Maunakea Master Plan, MAUI NOW (Oct. 8, 
Nations Declaration of the Rights of Indigenous Peoples (“No relocation shall take place without the free, prior and informed 
consent of the indigenous peoples concerned and after agreement on just and fair compensation and, where possible, with the 
option of return.”).
8. See A. U’ilani Tanigawa Lum, Accessing Traditional Kīpuka: Protecting the Storehouse of Knowledge Through the 
Submittal Number: 261
Date submitted: 10/25/2021
Name: Bonnie Bator
Organization: `Ohana
City, State, Zip: 
Comments on Missions, Vision, and Values: Protection of Maunakea hasn't been shown by UH-Hilo in the past four decades and more
Comments on Goal and Objectives: Maunakea stewardship by UH-Hilo has been severely lacking... Please give up Maunakea to "Ku Kia`i Mauna" The True Protectors of Maunakea
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: 24 October 2021

Board of Regents (BOR) and To Whom It May Concern
SUBJECT draft Master Plan for the University of Hawaii Maunakea Lands 'review'

ALOHA! The University of Hawaii manages Maunakea with a 65-year lease that is due to expire in 2033 - in ten years
ALL the damage to sacred Maunakea in fifty-five years is sacrilegious ~ why has the University of Hawaii waited fifty-five years to suddenly 'care' about Maunakea - to produce a draft Master Plan for managing Maunakea?

We, feel that as Maunakea is part of the ceded lands trust for the explicit good of Native Hawaiians and the General Public = leasing her for the collective sum of $1.00 a year by the wealthiest nations on earth is a breech of utmost common sense. Native Hawaiians' are houseless in their own homeland, they bare witness to alarming health statistics, are an endangered species and Maunakea gets trashed for the purpose of a multi-billion dollar astronomy industry - for a mere $1.00 a year ? !

Schools across Hawaii Nei are in deplorable shape, rampant substance abuse reigns amongst the population, as people 'self-medicate' to escape inequities. here is one glaring inequity - the continued rape and plunder of sacred Maunakea.
The focus of Maunakea ALL these decades has been her "development" for astronomy, notice the word "FOR" "For Who ? "

ALL that $ $ $ - sure isn't going to Native Hawaiians' and the General Public...

Protection of traditional cultural sites, endangered species, water quality, protection of habitat and public access have been deleted from the agenda in the past five decades of management by University of Hawaii. Atrocious track record ! ! ! ! !
The University of Hawaii is the developer of expansion of industry atop Maunakea with the TMT - we believe that the protection, preservation, and conservation of Maunkea is incongruent with the proposed TMT.

"If" the University of Hawaii truly 'cares' about Maunakea then the sincere step would be to STOP the proposal of TMT.
Also, transparency... THIS format for offering public comment on the "draft Master Plan for the University of Hawaii Maunakea Lands" is junk

Why is it under the control of the University of Hawaii... Humbug that people cannot just email their comments by regular email ? !

PLEASE, in the next comment period on THIS subject, which would be the final Master Plan... let people just email the University of Hawaii, PLEASE ! ! ! ! !

MAHALO Plenty ! ! !

Aloha `Aina
Sincerely With ALOHA,
Bonnie P. Bator and `Ohana ( Keana`aina, Keli`ikoa, Kai`aokamalie, Kai )
P.S. Please keep us on the United States Postal Service ( USPS ) mailing list for any future updates on this draft master plan and final master plan: MAHALO
The Master Plan fails to hear the voices of the hundreds of thousands of constituents who have clearly stated that the TMT project on Mauna Kea is unwanted. It especially fails to hear the voices of the vast majority of Hawai‘i’s only Indigenous people, the kānaka ʻōiwi, who say ‘a’ole TMT! It leaves open the opportunity for the TMT project to happen even if it’s not for another 50 years.

UH has failed to manage Mauna Kea properly for the past 50 years that it has held the lease making it extremely questionable as to whether continuing the lease for another 50 years would be smart. The result of their mismanagement includes pollutants being left on the Mauna, inadequate representations to the local community, and a continued silencing of Kānaka ʻōiwi voices in relation to proper care of such an important place. The Master Plan’s inclusion of the TMT project as one it would support provides proof that UH is not ready to make needed change to the way it goes about conducting care of Mauna Kea.

For these reasons, the Master Plan should be rejected and UH should not be given the opportunity to continue to hold a lease over Mauna Kea.

Mahalo,
Noel Shaw
Submittal Number: 263
Date submitted: 10/25/2021
Name: Katherine Sammler
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: We question the ethics of this space science project. Colonial relations of domination are (re)produced through the assembling of apparatuses in particular places and the coordinated efforts of putting them to work in the service of colonial expansion to offplanet spaces. TMT is exactly such an apparatus. We need to be explicitly anti-colonial, as coloniality is foundational to the practices of contemporary space science and imaginaries of space “exploration.” There cannot be an ethical engagement with the lands of other planets when such science projects are rooted in exploitative colonial relations on Earth. Such projects will always be colonies.
Submittal Number: 264
Date submitted: 10/25/2021
Name: Theresa Brecker
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepohaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines: Nothing should be constructed on the Mauna Kea ever
General/Other comments:
Submittal Number: 265
Date submitted: 10/25/2021
Name: Luana Jones
Organization:
City, State, Zip: Pahoa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT ~ Too Many Telescopes Already!
Take some down Priority!
No further desecration of the Wao Akua ~ Elemental Community (Watershed, Flora & Fauna, Etc.)
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The people of Hawaii have been extremely outspoken about their views and beliefs surrounding Mauna Kea. They do not want you there. They do not want a giant telescope there. It is spiritual and ancestral land which you have no right to, and it would be an absolutely shameful decision that would mark UH in history books along the lines of other colonizers, if your organization were to take it. So, don't. Listen to the people, who have been speaking about this for years. The world knows what is going on, and we are all watching.
Submittal Number: 267
Date submitted: 10/25/2021
Name: Tina Karagulian
Organization:
City, State, Zip: , TX
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The decision to put in a telescope without the full cooperation of the community lacks consent of the people and is a violation of sacred land. I am against this use of power and against this project moving forward in this manner.
Submittal Number: 268
Date submitted: 10/25/2021
Name: Rosalie Hobbs
Organization:
City, State, Zip: Wai'anae, Hawai‘i 0

Comments on Missions, Vision, and Values: The continuous pursuit of TMT, as well as the remaining telescopes already sitting on Maunakea shows the native community and our values just how much blatant disregard the UH system has for us. It's shameful for you to think you can suddenly get our stamp of approval when THERE WAS NO CONSENT GIVEN IN THE FIRST PLACE! You desecrated a wahipana without batting an eye, and only began this process of talk story because you got caught. TMT is hewa. The fact you're dragging your feet to clean up all the other telescopes is HEWA. The University of Hawaii is a public college, UH does not represent the Native Hawaiian people, therefore UH should stop acting like everything they do supports the Hawaiian people. Take accountability, and end your participation in this project.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 269
Date submitted: 10/25/2021
Name: Markus Abayan
Organization:
City, State, Zip: Daly City, California 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 270
Date submitted: 10/25/2021
Name: Gabriel Gonzalez Gonzalez
Organization: Gabriel Gonzalez
City, State, Zip: Covina, CA 0

Comments on Missions, Vision, and Values: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them!

Comments on Goal and Objectives: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on Strategies: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on Halepōhaku facilities: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on management and stewardship facilities in the MKSR: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on education, research, and astronomy facilities in the MKSR: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on access management facilities: X

Comments on proposal review process: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on design guidelines: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

General/Other comments: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them
Submittal Number: 271
Date submitted: 10/25/2021
Name: Lilly Fisher
Organization:
City, State, Zip: Honolulu, HAWAII 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawaiʻi have an internationally recognized right to self-determination and have, for over a decade, exercised that right to say "No" to the construction of TMT on Mauna Kea, in the forms of public comments, hearing testimony, petitions, demonstrations, and marches. Given this, I don't see how this master plan meets the stated goal in part I to "fulfill their responsibilities to the mauna and to one another" while ignoring the voices and sovereignty of Kanaka Maoli.
Submittal Number: 272
Date submitted: 10/26/2021
Name: Cheryl Farrell
Organization:
City, State, Zip: Koloa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I just want to voice an opinion in FAVOR of the TMT. So many of our current technologies today came from science and space exploration. I support having the TMT to create learning opportunities for young people who may find opportunities for careers in science and space. I am NOT Hawaiian or Native American and so I do sympathize with the fear of that group, but I feel for the greater good, the TMT will help, not hinder, the rich history of Hawaiians.
Submittal Number:  273  
Date submitted:  10/26/2021  
Name:  Philip Barnes  
Organization:  
City, State, Zip:  Hilo, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I am happy to see that the university is updating their 2000 Master Plan for Mauna Kea. Much has obviously transpired in the subsequent 20 years that requires this update. The Thirty Meter Telescope is obviously drawing most of the attention these days but there is a lot more to managing the mountain than telescope approval and construction. In conjunction with the BLNR’s CMP a wise and judicious plan for managing all of the multifaceted aspects of the mountain can best be achieved. It is important to note that the Master Plan is a land use document. All aspects of the actual management of Mauna Kea will be the purview of the BLNR.

It is important to recognize that the summit area of the mountain is truly a world class area for astronomical observations. With the number of clear sky nights, lack of light or other forms of pollution, and ready access to urban areas for site support Mauna Kea may very well be the best site on the planet for these scientific pursuits. The university is well positioned to facilitate this research with the site support located at the University of Hawaii at Hilo.

The repurposing of the midlevel Halepohaku area could play a major role in allowing a more comprehensive management system for preserving the mountain for both scientific and cultural practices. The addition of the universities teaching telescope at this location could greatly expand the potential teaching of astronomy to both students and hopefully the public at large on a limited basis. An expanded visitor center as well as a shuttle system for summit access could go a long way in reducing environmental impacts in the summit region. Hopefully the new visitor center could have a greatly expanded focus on the cultural aspects of the mountain.

At the summit itself the reduction in the number of telescopes will return more of this region to it’s natural state. It should be noted that site 13 where the TMT could be located in actually well below to the true summit of the mountain. Facilities such as rest rooms could be of a more permanent nature to reduce possible environmental impacts. A hardened trail system created in conjunction with cultural practitioners could also serve to keep visitors off of more sensitive areas. The gathering of baseline data on the physical features of the summit environment would also be beneficial to future management plans.

My overlying concern with all efforts to manage and plan for the future of the mountain is the acceptance by the public for any decisions that are made. The extensive decade long process for the siting of the TMT provides a model for this concern. Hawaii is a part of the United States and functions by the rule of law. I am glad to see the extensive outreach to the public for their comments on this Master Plan. If approved the test will come in it’s implementation.
Submittal Number: 274
Date submitted: 10/26/2021
Name: Sigouin Wendie Wendie
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values: I support the University of Hawaii stewardship of Maunakea
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the University of Hawaii's stewardship of Mauna Kea and their Astronomy programs. We are so fortunate to have the logistics to support this scientific program which is vital to the modern world and that our own University is contributes to scientific discoveries!
I am 12 percent Hawaiian and I support Astronomy atop Mauna Kea.
Submittal Number: 275
Date submitted: 10/26/2021
Name: Kainalu Iaea
Organization: University of Hawai’i at Hilo
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha e,
As a haumāna of the University of Hawai‘i at Hilo, I decided it was important to share my mana’o on the new master plan for Mauna Kea. This plan will ultimately secure educational opportunities to my generation as a young kānaka in college, and future generations to come, many of them that will possibly attend a UH institution. I fully support the efforts of attempting to create opportunities for those interested in astronomy, like myself. However, this is not the first proposal provided from the University regarding stewardship responsibilities on Mauna Kea, and from the first telescope their has been resistance to any projects being developed. If the University hasn’t listened in the past, how can I as a student support my school that does not listen to public feedback? Was it necessary for hundreds of people to camp on the base of Mauna Kea to state that this mountain is sacred, that it is important? That does not sound ethical or humane for hundreds of people to camp in cold weather, just to say its sacred, to leave it alone. 13 telescopes later, dozens of arrests throughout the years, and were still trying to negotiate terms of new development? How does any of this sound like progress? I do not support this master plan because the building of this telescope desecrates sacred, that is important? That does not sound ethical or humane for hundreds of people to camp in cold weather, just to say its sacred, to leave it alone. 13 telescopes later, dozens of arrests throughout the years, and were still trying to negotiate terms of new development? How does any of this sound like progress? I do not support this master plan because the building of this telescope desecrates sacred, native, and wao akua lands. These pristine slopes were designated as wao akua (region of where our akua dwell) long before the University decided to start development. This project and master plan further oppresses Native Hawaiian religion, culture, and well being. The University says this will benefit its students, well listen to us, to me, this master plan benefits nothing but the continuation of oppression towards Native Hawaiians.
Mahalo,
Kainalu UHH ’23
Submittal Number: 276
Date submitted: 10/26/2021
Name: blaise blaise
Organization:
City, State, Zip: Boise, ID 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: Do not build the telescope. Don’t forsake the land.
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values: This section seeks to use and define many words in Hawaiian. I will do the same. My favorite Hawaiian word is iki’iki. Iki’iki as in, humidity. Iki’iki almost an onomatopoeia. "Icky icky." For indeed, humidity can be a joy but it can also be rather icky. And the Hawaiian language can be rather beautiful but it can also be obscuring. It is icky how much this mission statement talks about listening and uses Hawaiian to try to buy itself some authenticity. While I do believe it to be sincere, every mention of "listening" is sits icky when it sits alone. Because each one does sit alone, without mention of action or accountability to the voices being listened to. They still sit still like air heavy with water vapor. This Mission statement needs to back up its stated values with more concrete commitments to cede financial and political resources to the communities it is listening to. It needs to demonstrate that the University is prepared to sharing power, not just able to use a Hawaiian dictionary.

Indeed, I think I might be coming off as too harsh. This Mission statement is several strides in the right direction, just like land acknowledgements. It is admirable to be taking time to carefully craft a heartfelt document such as this one. But, just like land acknowledgements, nothing can end with simple recognition and words.

"Land Acknowledgement" by Hope Fa-Kaji

It’s believed that “hurricane” is derived from the Arawak word hurakan, meaning “god of the storm.”

And we thought it sufficient to remember in words
Except, perhaps, in those moments when there is enough sky to make the rain look stagnant:
A cotton ball caught on the landscape:
Stretched in strands, gray to the ground
Except, perhaps, when a rain drop sinks into every available space:
When it is width and depth and they just keep coming:
And the fire ants roll down what used to be pavement
We thought we could surf down dunes in plastic
Rafts, colored to kindergarten sensibility and expect the gypsum not to stick to the backs of our ankles
We switched lanes to pass by the Minnie Winnie
The Miniature Winnebago
The Miniature “people who live by the fetid water”
We settled in between the advancing thunder heads to drive
Around, kick up white sands and
I’m sure someone
Has walked to the top of a dune, jumped and
held both knees in both arms
Wanting to splash the grains
All the while yelling
Geronimo
“the one who yawns”

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 278
Date submitted: 10/26/2021
Name: Kawena Komeiji
Organization: Nālimakui Native Hawaiian Council, UH West Oʻahu

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Aloha mai kākou,
I am writing on behalf of the Nālimakui Native Hawaiian Council at the University of Hawaiʻi - West Oʻahu. We appreciate the opportunity to provide comment on the Draft Master Plan for the University of Hawaiʻi Maunakea Lands. We would also like to acknowledge and mahalo all the effort that went into creating this document.

We also commend the University of Hawaiʻi at its attempt at being a responsible steward of the lands at Maunakea, however, we have four (4) main concerns regarding the plan:

1. Potentially turning Halepōhaku into a tourism destination
   The draft plan states that UH intends to repurpose and reassign Halepōhaku facilities to support education and research that are not astronomy related, and in the very same section, says that it expects an increase in out-of-state visitors thus needing facilities to be updated to accommodate such. The commitments and repurposing plan laid out by the University do not directly address the issues stated in the previous paragraphs.

2. Little mention of Site 13: TMT
   TMT has been an issue of contention within our community for years and the lack of clarity, or even mention, of Site 13: TMT in the management plan is concerning. If TMT is to be the last telescope on Maunakea with scheduled construction slated to commence in the next few years, it is assumed that TMT would be highlighted more in this master plan.

3. Nebulous language that lacks meaningful substance
   The overall language of the draft master plan feels hollow with very few actionable intentions that preserve the physical landscape or the cultural significance of Maunakea to Native Hawaiians.

4. Sustainability
   It is alarming that all existing telescopes have little to no chance of being recycled, which appears to be in direct conflict with TMT proponents declaring astronomy as a “green” industry.

No ka pono o ko Hawaiʻi pae ʻāina, no ka pono o ka lāhui Hawaiʻi.
Na mākou me ke aloha,
Nālimakui Native Hawaiian Council
University of Hawaiʻi - West Oʻahu
Submittal Number: 279
Date submitted: 10/26/2021
Name: janet Matlock
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: In the short term, astronomy provides a diversity of clean, sustainable jobs and STEM education for those living on Hawaiʻi Island. In the long term, astronomy adds to our global collective knowledge as we humans continue to reach for the stars, as ALL of our ancestors have done before us. Imua TMT!
Submittal Number: 280
Date submitted: 10/26/2021
Name: Brian Lemaux
Organization: Gemini-North
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The draft master plan for the UH stewardship of Maunakea lands, as written, documents an extremely thorough and balanced vision for the future of Maunakea stewardship. If adopted and implemented effectively, this plan should improve on every aspect that the mauna offers, from cultural interpretation, environmental sustainability, astronomical research, cross-disciplinary research, conservation, and educational opportunity. Those who crafted this plan clearly solicited a broad swath of input and listened carefully to all the voices that spoke to their experience with and their vision for Maunakea. Speaking from the perspective of an astronomer of 20 years, the current plan, as written, will not only maintain the highly productive facilities on the mauna, but allows for a carefully controlled modest re-fitting of those structures on existing sites, those which are not to be decommissioned, in order to make them more impactful while still maintaining a limited presence on the mauna. It also allows for the development of another world class research facility on the currently existing site 13, whether that be TMT or another telescope, a crucial step towards answering the questions of 21st century astronomical research for which currently facilities are insufficient. These questions are at the very core of our search for our origins as a species, the origins of our planet, of our galaxy, and of our universe; a fundamentally human endeavor. This plan is crafted with love for the mauna, what it brings to all people, and looks to improve on the experience of respectfully communing with the mauna for all who chose to, irrespective of their profession, background, race, or beliefs. I believe this plan should be adopted.
Comments on Missions, Vision, and Values: p. Vii. Please stop making my people and culture sound "prehistoric" - that is racially charged. The reference to "early Hawaiians" is a poor choice of words and exposes what you think of Native Hawaiian culture and religion as something relegated to the past. Native Hawaiians are a living people. We still exist and clearly still see Mauna Kea as our origin place. Indigenous science and knowledge is valid and is telling us to take care of the earth. Mauna Kea is our sacred place of origin - we do not need your colonial science desecrating that land through mountaintop removal, in a conservation area that is home to endemic species found nowhere else on earth, to figure it out for us.

p. Ix. Over development is pervasive throughout Hawai‘i - the development of our sacred sites and destruction of our cultural resources has had a huge impact on the health and well-being of the Hawaiian people. Currently, Native Hawaiians make up over half the homeless population and 10 percent of the population. Do you think that further desecration of our most sacred 'Aina against our wishes will address this disparity and lack of opportunity in Hawai‘i? Do you think Kanaka Maoli want to be employed by an industry that doesn't recognize our rights, knowledge, religion and cultural practice as valid? Mauna Kea is sacred and should be left alone. https://www.honolulu.gov/rep/site/ohou/PIC2020PITCountReportFinal.pdf

p. Ix. Yes, there should be a more diversified economy. Tourism, military, the agrochemical industry, real estate, and astronomy/telescopes have all been part of the lack of diversified economy that has not changed and only gotten worse over the last 50 years! Why would more telescopes bring more diversity to our economy? Do you think more tourism and military will also diversify the economy?

p. Ix. This betrays the majority opinion of the Hawaiian people that have been screaming, "no more! Enough is enough!" 20,000 people marched in a single day to demonstrate our opposition to TMT on Mauna Kea. How many marched in support of further desecration? Stop using our home and our most sacred land for your science experiments. From experimental pesticides and herbicide resistant seeds to bombing Kahōʻolawe for target practice to building these monstrosities on Mauna Kea - aole. Enough is enough. The few in power is deciding what the future of Mauna Kea should look like and ignoring the majority opinion. Don't hide behind "diversity."

Comments on Goal and Objectives: page 1. If you are trying to listen to our voices, and clearly also attempting to appropriate 'olelo Hawai‘i judging by the title of this draft, why can't you hear the voice of the Native Hawaiian people who have been shouting at you, "NO MEANS NO!"?

Comments on Strategies: p. 7. You have had over 50 years of an opportunity to build trust and listen to the community. You have categorically failed to be a good steward of Mauna kea. You have failed and do not deserve another opportunity. There is zero trust felt by Kanaka Maoli.

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The Native Hawaiian people are the rightful stewards of Mauna Kea.

Comments on education, research, and astronomy facilities in the MKSR: 4-3. TMT is located on the pristine northern plateau. It is NOT okay to continue with plans to build this telescope. How many times have we said no? You must take into account the cultural and environmental impacts of this construction and your public tru

Comments on access management facilities: X

Comments on proposal review process: 1.It needs to be approved by the Hawaiian people. If the "State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua'a tenants who are descendants of nativ

Comments on design guidelines:

General/Other comments: These comments were attached to the document. I can't see a way to submit those comments so I copied them here as well. I don't have energy to trace every comment back to provide context and hope that readers will be able to review them in the document itself. I am adding them here as well because I do not trust they will be read. Please send me verification that my comments are considered.
Submittal Number: 282
Date submitted: 10/26/2021
Name: Bob Douglas
Organization:
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values: For the purposes of these comments Native Hawaiian is defined as Kānaka Maoli, NOT a resident of the state of Hawai‘i.

Including comment on the THE UNIVERSITY OF HAWAI‘I COMMITMENT TO COLLABORATIVE MAUNAKEASTEWARDSHIP and the E Ō I KA LEÓ (LISTEN TO THE VOICE) FOREWORD

Pg 2. “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.”
This is a highly charged accusatory and ambiguous statement. Where is the supporting evidence?

Pg. X Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred.
Change “for some the mauna is sacred” to “for most the mauna is sacred”.
“For early Hawaiians, Maunakea was the origin – the first-born island. For modern astronomy, Maunakea provides a window on the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose and challenge with this plan and thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.”
This paragraph is pushing a false patronizing narrative/connection between cultural beliefs that Mauna Kea is sacred and modern astronomy. It’s disingenuous to push one viewpoint without acknowledging that for most native Hawaiians Mauna Kea is sacred and no more construction should be allowed.

Pg XII “At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai‘i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.
UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy inclusive of disciplines grounded in science and technology guided by the values of the community.”
Again this document is pushing a false narrative. Astronomy provides little benefit to native Hawaiians. There are many far better programs with benefits that outweigh astronomy by orders of magnitude. The value add is negligible and highly selective and narrow in focus. Native Hawaiian and Hawaii residents would be much better served if UH would focus on teaching it’s students skills to acquire and retain telecommuting jobs. Develop telecommute centers. Strategies for telecommute employment are complex and difficult to master without guidance. A successful telecommute program would offer employment of a much wider breadth than astronomy. This narrow mindset is the root of our brain drain.
“Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them.”
Again a false narrative. There are many ways to address the issues. It takes creative and willful action to surmount. UH can properly prepare it’s students for the new employment paradigms.

Pg XIII “Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other.”
Change.
A cultural practitioner has an inherent right to experience Maunakea that shall not be infringed.
Pg 1-1 “Sustainably steward Maunakea for the benefit of our communities, Hawai’i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom, and values while fostering mutual understanding and respect.”

Change to reflect that the primary benefactors are the Native Hawaiians in accordance with the U.S. government 1993 Apology Resolution.

Pg 1-2 “The premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions.”

Strike this statement as it is subjective. There are many other sites in the Northern hemisphere. Including at least two in the US that are far taller and many more outside of the US. Most telescopes are international so being US centric is a bit presumptuous. It’s also untrue if we include space based telescopes.

Pg 1-3 “Kuleana (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai’i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.”

Change in accordance with the U.S. government 1993 Apology Resolution. “The UH Maunakea Lands are held in trust by the State for the benefit of Hawai’i’s people.” to “The UH Maunakea Lands are ceded lands held in trust by the State without the consent of or any compensation to the Native Hawaiian people of Hawai’i or their sovereign government”.

Comments on Goal and Objectives: Pg 1-9 Facilitate the conversion of all wastewater facilities in the MKSR to zero-discharge.

Add clarification and due date. All telescopes are required to update their waste water management systems to an above ground fully contained double walled systems.

Comments on Strategies:

 Comments on Halepōhaku facilities:

 Comments on management and stewardship facilities in the MKSR:

 Comments on education, research, and astronomy facilities in the MKSR: Pg 4-14 Continued Operation of Existing Facilities. Add a section for Mandatory Requirements for existing observatories.

1. All existing telescopes and buildings should be repainted to a color that blends into the environment. Modern IR reflective paint.

Comments on access management facilities: X

Comments on proposal review process: Pg 6-2 “A project proponent can officially submit their proposal by completing and submitting the most recent version of a Project Proposal Form, which will be available online after this Master Plan is finalized. UH and entities that have existing facilities may submit proposals to access management facilities.”

Comments on design guidelines: Pg 7-1 “All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.”

Change “All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.”

Storage of materials will be extensively documented by a certified geologist by type and quantity.

Pg 7-1 “The importing of aggregate materials shall be kept to a minimum and shall not occur unless material already present in the project area is demonstrably insufficient or of unacceptable quality. Any imported aggregate material must be removed to the maximum extent practicable when the facility is decommissioned.”

Change

No importation of loose aggregate allowed.
Any new construction on Maunakea should require minimal grading and floating foundations to minimize any damage to the natural environment.

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**Pg 7-3 DOME HEIGHT**

Strike this entire section. Add. No increase of any existing dome height or width.

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**Pg 7-4 HEIGHT OF STRUCTURES OTHER THAN DOMES**

Strike this entire section. Add. No increase of any existing building in height or width.

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**Pg 7-5 “Color of Dome and Dome Support Structure. The rotating dome and shutter should have a reflective aluminum-like coating;”**

Change.

All existing telescopes and buildings should be repainted to a color that blends into the environment. Modern high tech IR reflective paints are able to compete with white and silver. Any delta can be dealt with by the HVAC systems. These paints were develop for the military which require low IR reflectance with low optical visibility.

**General/Other comments: Appendix A.**

Add in all invited parties and document whether they accepted or declined. It’s impossible to discern which ones were not invited.

Why is there more representation from tour groups than from Native Hawaiian organizations such as;
1. Royal Order of Kamehameha
2. Ku Kia‘i Mauna
3. Kahea
4. OHA
5. DHHL
6. CNHA

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Resolution 19-03.

As permitted by law, the University should pursue a partnership with an appropriate agency or organization whose primary beneficiary is the Native Hawaiian community, to operate commercial shuttles and tours on Maunakea.

Amend by adding that the permits for tour operators should be given out with preference to native Hawaiian owned businesses. With a strict investigation into Hawaiian owned. Many know how to circumvent the system by pretending they’re Hawaiian owned via a divided ownership. A non-Hawaiian owns 49% of the company and the rest is distributed amongst Hawaiians but limiting their voting rights and profits within the corporation.

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Resolution 21-02

“In collaboration with the Center for Maunakea Stewardship, the ‘Imiloa Astronomy Center shall develop and implement a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by September 30, 2021, with implementation targeted to commence no later than December 31, 2021.”

Change

All tour guides should meet a minimum certification in Hawaiian studies. I propose that UH Hawaiian studies program and not Imiloa determine a track for certifying tour guides. Any certification must include a written test(s) and biennial certification with costs born by the tour operators.

Tour operators should be required to give back to the Hawaiian community in the form of a percentage of profits.

---

**RECREATIONAL ACTIVITIES IN THE PLANS**

Add

Violations of off-road use, destruction of natural habitat, removal of items would incur an automatic ban from the Mauna and all State Parks.
“BE IT FURTHER RESOLVED that the university make it a priority, including through additional financial support, to meaningfully increase the education and engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in the areas of astronomy, celestial navigation and exploration; and that such initiatives include an active educational and outreach program that highlights indigenous knowledge as well as enhanced student access to and utilization of Maunakea-based astronomical resources in the field;”

This portion of the resolution commingles the benefits to the Native Hawaiians and Hawaii residents. It should be a well defined priority with dollar amounts to benefit the native Hawaiians and so be reflected in the resolution.
Submittal Number: 283
Date submitted: 10/26/2021
Name: Daniel Alexander
Organization:
City, State, Zip:  
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hello, my name is Daniel Alexander, I was born and raised on the Big Island, and as a white settler in Hawai‘i, I feel it is my place to be reflective of my presence in the islands, and to follow the leadership of Kanaka Maoli in the struggle to preserve and protect the fragile and sacred resources of Mauna Kea.
There has been a well documented history of mismanagement of those natural and cultural resources by the University of Hawaii. The University has consistently failed to listen to the concerns of the stakeholders with the most to lose, has failed to honor its own commitments regarding environmental caretaking of the mountain, failed to act on numerous environmental impact statements detailing the continued and unmitigated impact the infrastructure of the observatories has had on the fragile ecosystem of the mountain, and has shown that it is unable to be a good steward of Mauna Kea.
I support the end to the planned construction of the Thirty Meter Telescope, and all future development of Mauna Kea.
Submittal Number: 284
Date submitted: 10/26/2021
Name: Sam Miller
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: To whom it may concern,
I do not want to be misconstrued as someone against conducting research relevant to the field of astronomy; to me, personally, space and the stars are just as sacred, and being able to see the stars so clearly in Hawaii is one of the main things that makes me homesick every time I leave.

However, the problems regarding Mauna Kea lands are multi-faceted, and first, I urge you to consider again that the land is sacred. Although an effort is being made to listen to the input of Native Hawaiians (which is appreciated), it is difficult to allow a few individuals to speak for an entire community regarding something so controversial. Additionally, if you wished to acquire informed consent from Kanaka Maoli, you fail to do so when your Master Plan document is 122 pages long (limiting access to those with plenty of discretionary time), when many references are made to how the plan that proceeds will need to agree with the Comprehensive Management Plan (which we do not have access to before the deadline to submit commentary about the Master Plan, thus potentially leaving out important details), and when promises are continually made to support and uplift Indigenous culture, tradition, and knowledge but no plan is laid out for how to do so because “In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan” (page 75). Unfortunately, I do not see how cultural practices are entirely separate from land use plans when the very basis of Hawaiian culture is intrinsically tied to the land. If sites are still undergoing construction that cause the desecration of the Mauna, an action that has been continually opposed by Hawaiians, how can you claim this solidarity with Hawaiians while ignoring their wishes and simultaneously claim that this will ultimately benefit them? As with tourism, the benefit is ultimately monetary, but still at the expense of the Hawaiian people.

Further, whether or not more astronomy sites and telescopes are constructed, I believe that the University of Hawaii will maintain its status as one of the world leaders in astronomy and physics programs based on its location and how much has already been discovered in space while on these islands. This push to be competitive in astronomy is unconvincing compared to the value of the undisturbed sacred land.

Finally, allocating a large budget towards furthering the pursuit of knowledge of space by constructing stations and roadways seems like a less pressing matter than committing that time and effort and those resources to addressing things like the problems of climate change, which will disproportionately affect the State of Hawaii through rising sea levels and natural disasters compared to mainland states. More emphasis should be placed on the importance of creating innovative solutions to surviving in a rapidly changing world that don’t rely on the science fiction fantasy of retreating to space when the Earth is no longer inhabitable.

At the very least, I support the decommission of those sites which are not being utilized and restoring those areas to their former states as best as possible and using Hawaiian names for the places on signage, but I urge you to effectively manage the space that is being actively used in order to prevent the need for future construction efforts. Emphasize caring for the land and its native biodiversity and ensure native plant restoration projects are also prioritized.

Mahalo.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: We are living in a time of climate catastrophe, caused largely by our mismanagement of land and resources. And here we are again, deciding against the land, and the people who wish to care for it.

I do not support the building of the TMT on Mauna Kea.

I think that repeat offenders should not be given the benefit of the doubt, especially when there is a longer history of mismanagement and outright mistreatment than that of proven track record of stewardship and clean up.

How can one make the argument that we should be exploring the furthest reaches of our universe if we cannot even protect the land those telescopes are built upon? We must learn first how to treat our immediate environment before any such new construction should be allowed.

That trust has to be gained, not assumed through power and opportunity.

When there has been no evidence of accountability for past harms, why should people believe this time will be different? It is as if the people of Hawai‘i are being asked to forget and forgive without any proof that the sites will now be managed properly. How does anyone know that the same problems will not arise again? And what is the motivation to do so, if there is absolutely no consequence for what has already happened? A lot of money has gone into these works, but not much can be shown by way of land stewardship.

Harm has been done, but we are expected to just believe for the sake of science – and a neatly written master plan – that everything will be handled better now? That, despite UH being behind on their stated goals of decommissioning the current telescopes, it can be trusted to follow through with complete respect for people’s concerns?

Telescopes, need anyone be reminded, that have contaminated Mauna Kea through hazardous leaks and trash pile up?

This is a leap of faith that many are rightfully wary to make.

University of Hawai‘i and the Department of Land and Natural Resources have proven to be poor stewards to the land and natural resources at best, and at worst downright disrespectful and dishonest.

Where there is no trust, there can be no respect. If this project is so important to humanity, prove that humanity is important by treating those on the island as if they are also important. Treat those opposed to harming our land, this special piece of universe that we occupy, as if they are as precious as the universe you wish to explore. As Carl Sagan said, we are made of star stuff.
Submittal Number: 286
Date submitted: 10/26/2021
Name: Anonymous Anonymous
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I fundamentally DISAGREE with any plans for development at Mauna Kea. The University of Hawaii should not desecrate this sacred site. Any talk of building the TMT is a threat of violence against the Hawaiian people and furthers an agenda that commits cultural genocide on unceded land. The TMT does not belong in Hawaii. Thank you for your time and consideration.
Konveio General Comment Forms

Submittal Number: 287
Date submitted: 10/26/2021
Name: Robert OConner
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: I support this section as written.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the plan as written, and look forward to the benefit this project provides to the community.
Konveio General Comment Forms

Submittal Number: 288
Date submitted: 10/26/2021
Name: Shannon Kaaa
Organization:
City, State, Zip: Aiea, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I do not think that ANY MORE observatories should be built before existing decommissioned observatories have been REMOVED. After those and other observatories have been removed, then there can be a discussion about any future observatories, based on the environmental AND CULTURAL impact.
Submittal Number: 289
Date submitted: 10/26/2021
Name: Makanalani Gomes
Organization:
City, State, Zip: Waipahu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I do not consent to the building of the Thirty Meter Telescope (TMT) on Mauna Kea or any other telescope. I would also like all telescopes on Mauna Kea to be decommissioned. I also believe the University of Hawaiʻi should no longer be the steward of Mauna Kea. Mauna Kea is sacred and should be treated and maintained as such.
Mahalo
Submittal Number: 290
Date submitted: 10/26/2021
Name: Jeffrey C
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values: Despite dissent you're still planning on developing TMT; commercializing the area is contradictory to your stated goals of minimizing adverse effects of human activity on the mauna. This is not "protecting, maintaining, and restoring the cultural landscape." Building TMT is not stewardship.
Comments on Goal and Objectives: Again: Despite dissent you're still planning on developing TMT; commercializing the area is contradictory to your stated goals of minimizing adverse effects of human activity on the mauna. This is not "protecting, maintaining, and restoring the cultural landscape."
Comments on Strategies: Despite your claims of a better future based on the money you claim TMT will bring, TMT will continually exploit Hawaiian culture for tourism instead of helping Hawaiians build a better and independent economy. There have been so many telescope projects in the past.
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities: X
Comments on proposal review process: Where is your explicit process for sourcing opinions from the community? Where are you listening to the voices from? The selection process from the members of your teams leads to prejudice and echo chambers. Specifically mentioning the indigenous community.
Comments on design guidelines:
General/Other comments:
Submittal Number: 291
Date submitted: 10/26/2021
Name: Camille Rodrigues
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Decommission and remove the existing telescopes on Mauna Kea. Do not build any more. We do not want this and we are the stewards of this land.
Submittal Number: 292
Date submitted: 10/26/2021
Name: Rachel H
Organization: Uprooted and Rising
City, State, Zip: 

Comments on Missions, Vision, and Values: I strongly doubt the values of this master plan and its claims of taking care of the mountain because the Comprehensive Management Plan has not been enough in protecting the mauna in Natural or Cultural perspective. None of the 13 existing telescopes have been decommissioned when called to. Trash was never taken out, left accumulating on the Mauna. Chemical waste spills were not treated correctly. The values of this document do not align with the people, so if you truly are listening to the people, you should stop this master plan DRAFT.

Comments on Goal and Objectives:

Comments on Strategies: The mauna is not a place for people to go. Mauna Kea is wao akua and cities are wao kanaka. We should not be holding commercial tours or films. Mauna Kea is a temple and should be treated as such. She deserves peace and protection, which this document lack.

Comments on Halepōhaku facilities: NO MORE TELESCOPES ON THE MAUNA.
Anything educational can be built somewhere NOT sacred.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities: X

Comments on proposal review process: Kanaka Maoli are NOT part of this process. Why are the most impacted community NOT part of this process?

No community consultation either, it's like you're not serious about listening to our lelo!
Kahu Ku Mauna has not been consulted even though they are

Comments on design guidelines:

General/Other comments: I adamantly oppose this plan and know that UH should stop everything and all the leases. Just listen to the kanaka maoli and elders telling you about protection, love, and care.
Submittal Number:  293
Date submitted:  10/26/2021
Name:  Jennifer Merritt
Organization:
City, State, Zip:  Tyler, TX  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  We must protect the past and current history of the mauna. This land has always been meant for the ultimate protection. The fact that there are telescopes on the mauna already should be seen as a blessing and act of grace. Those telescopes alone do not belong on the mauna, let alone heavy construction for a new one. It's disgraceful in my opinion to want something that others have opposed. We need to listen to the Hawaiian people not fight them. No compromise should be made.
Comments on Missions, Vision, and Values: While I understand the desire for what many might view as “scientific progress,” it has never been ok (no matter how many people and institutions have done it) for this “progress” to silence and sideline Indigenous people and acquire access to Indigenous lands and sacred spaces against the will of their traditional rights holders. In 2021, it’s no longer possible to masquerade oneself and one’s project as innocent and ethical when you and your project are perpetuating colonialism: accessing indigenous lands without partnership or permission from rights holders. It is colonialism to take lands and rights away from Hawaiians who have a right to their sacred places, in this case the mauna. On colonized lands like Hawai’i, ethical science requires creating meaningful partnerships with Indigenous people whose traditional homelands host the scientific endeavors and make any economic profits possible. Extractive science is colonialism. Building a telescope on Indigenous lands and sacred spaces against the will of rights holders is colonialism. It is not sustainable or ethical and has no place in Hawai’i or anywhere. Take advantage of telescopes already built. If you want to conduct scientific studies there, build meaningful relationships with the Indigenous people of those lands and give lands, rent and reparations back to them. Do not perpetuate more colonialism in Hawai’i, particularly when Hawaiians and their many allies are saying no. If your science is not ethical and anti-colonial it has no place in Hawai’i. There is no more space for colonial science in Hawai’i’s future.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities: The first section in this portion states that the areas mentioned are outside the already disturbed portion of this wahi pana. So right off the bat your talking about new paving and new retaining walls, which intentionally redirect precipitation away from natural water ways. We do not consent to this.

We need to move away from this mode of thinking. We must focus on restoring, and working with our sacred mountain. That is the only way you can begin to heal the great harm done perpetrated by UH and DLNR.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The great harm done not just to the mountain but to the people, was perpetrated by many of the same groups who have put together this plan.

What is right, is obvious. We need new leadership at the helm of stewardship of Mauna Kea. We need transparency and fairness, not the deceit and back-room dealings we’ve seen. We need leadership focused on restoring and maintaining the sacred resources of Mauna Kea for our future generations.

What we do NOT need, is more pavement, retaining walls, and telescopes. If you are truly going to “Heed the Voice,” then hear this yet again: TMT will never be built on Mauna Kea.
Submittal Number: 296
Date submitted: 10/26/2021
Name: Nick Dreher
Organization:
City, State, Zip: honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Please allow the TMT.
Submittal Number: 297
Date submitted: 10/26/2021
Name: Margaret Murchie
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Just build it already! Don’t listen to vocal minority. I understand the unhappiness for Hawaiians with past injustices but this project is too important to fail to be built. Important to the world! Important to Hawaii! Important for the youth whose ancestors followed the stars and science. This would add such great educational opportunities for everyone. It is in an incredible location and we are fortunate that the developers are still considering it. Don’t let this unbelievable opportunity pass us by. UH needs to clean up their acts, keep promises & maintain area or get out of the way. The crazy dissent should never have gotten this far. Time to move forward.
Submittal Number:  298
Date submitted:  10/26/2021
Name:  Jessica Perry-Ah Hoy
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I think there should be a permanent halt to the TMT. It's incredibly detrimental to the environment and not fiscally smart. If the state wanted to fulfil it's fiduciary duty as the holder of crown lands then they shouldn't have been allowing UH to pay $1 a year for the land.
Comments on Missons, Vision, and Values:

Comments on Goal and Objectives: This plan offers a tremendous opportunity to inspire young people to develop an interest in not only science but the stewardship of the islands. Everyone can and should have an interest in this series of projects. If adults can compromise and cooperate, t

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: This is such an extraordinary opportunity to expand terrestrial astronomy. Removing decommissioned observatories is a reasonable accommodation to make room for an observatory that will let us look out into the universe in ways we never have before. Hawaii

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I wish the construction of the TMT were already underway. The opposition must be listened to, but most of us want the telescope built and the future embraced. Accommodation to cultural practice can be made via this plan. Do that, and build. Anti-maskers can't force us to take off our masks. Anti-vaxxers can't get the vaccines banned. Those who want Mauna Kea left barren should not get to stop the future of science.
**Submittal Number:** 300  
**Date submitted:** 10/26/2021  
**Name:** Lloyd Case  
**Organization:**  
**City, State, Zip:** Kamuela, Hawaii 0

**Comments on Missions, Vision, and Values:** I do not believe that the University of Hawai‘i should be managing Mauna Kea because there is too much conflict of interest. The plan will benefit scientist and the University of Hawai‘i and no one else, therefore there is a conflict of interest.

**Comments on Goal and Objectives:** Mauna K

**Comments on Strategies:** More public input is essential for any plan moving forward. Native Hawaiian leaders should sit on the decision making board.

No new astronomy sites should be built because Mauna Kea should be protected by no more development. Development will negatively

**Comments on Halepōhaku facilities:** No development of Halepōhaku area should occur. This means no additions to the present facility.

**Comments on management and stewardship facilities in the MKSR:** The effort to protect and conserve natural and cultural resources must include no more buildings at all.

**Comments on education, research, and astronomy facilities in the MKSR:** Additional astronomy facilities should not be built. There will be too much impact on the environment.

**Comments on access management facilities:** X

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:** The state should not renew the lease for the University of Hawai‘i for the management of Mauna Kea.
Submittal Number: 301
Date submitted: 10/26/2021
Name: Lloyd Case
Organization:
City, State, Zip: Kamuela, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I do not believe that the University of Hawaiʻi should be managing Mauna Kea because there is too much conflict of interest. The plan will benefit scientist and the University of Hawaiʻi and no one else, therefore there is a conflict of interest.
Mauna K
Comments on Strategies: More public input is essential for any plan moving forward. Native Hawaiian leaders should sit on the decision making board.
No new astronomy sites should be built because Mauna Kea should be protected by no more development. Development will negatively
Comments on Halepōhaku facilities: No development of Halepōhaku area should occur. This means no additions to the present facility.
Comments on management and stewardship facilities in the MKSR: The effort to protect and conserve natural and cultural resources must include no more buildings at all.
Comments on education, research, and astronomy facilities in the MKSR: Additional astronomy facilities should not be built. There will be too much impact on the environment.
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The state should not renew the lease for the University of Hawaiʻi for the management of Mauna Kea.
Submittal Number: 302
Date submitted: 10/26/2021
Name: Greg Engh
Organization: ,
City, State, Zip: ,
Comments on Missions, Vision, and Values: See my comments under "General / Other (comment box)"
Comments on Goal and Objectives: See my comments under "General / Other (comment box)"
Comments on Strategies: See my comments under "General / Other (comment box)"
Comments on Halepōhaku facilities: See my comments under "General / Other (comment box)"
Comments on management and stewardship facilities in the MKSR: See my comments under "General / Other (comment box)"
Comments on education, research, and astronomy facilities in the MKSR: See my comments under "General / Other (comment box)"
Comments on access management facilities: X
Comments on proposal review process: See my comments under "General / Other (comment box)"
Comments on design guidelines: See my comments under "General / Other (comment box)"
General/Other comments: The Thirty Meter Telescope (TMT) should be built and only telescopes that are not operational should be removed. The TMT has obtained a Conservation District Use Permit (CDUP), sublease, and it was given permission to go forward by the state supreme court. Moreover, the TMT project passed an environmental impact study. None of the conspiratorial nonsense opposing the telescopes is true. When considering what should be done the facts have to be considered, never falsehoods. The TMT is one of the greatest projects ever to be developed and its impact for Hawaii and humanity as a whole will be nothing short of wondrous. I support the construction of the TMT and I oppose the removal of operating telescopes from the summit of Mauna Kea.

In the 2000 Master Plan for the Science Reserve, it is stated that five observatory sites would be “recycled” and not decommissioned. Removing operational telescopes and not constructing the TMT are both unreasonable mistakes and could both be disastrous. These telescopes improve our understanding of the universe and offer jobs and educational opportunities to locals. Removing operating telescopes and not constructing the TMT are irresponsible actions that show a lack of respect for the law, and would be no more than a political stunt to appease a small minority of individuals who have recently chosen to perpetuate myths and blatant lies in order to further other unrelated political agendas. Nothing will be gained by removing any operational telescopes and not building the TMT, yet much would be lost.

Observing time at every telescope is precious and more telescopes equates to more observing opportunities for everyone. With fewer telescopes on the mountain, less time will be available to both the international community and UH faculty (and their students). Neither group will be satisfied if telescopes are removed and observing time decreases. If observing time is lost by international research teams then those researchers will begin to look elsewhere to carry out their observations, which will negatively impact the site’s reputation for world-class research. Likewise, if observing time is lost by UH researchers then the impetus for professional astronomers to work at UH may decrease, which could also impact multiple other departments at UH as well as local students.

The economic impact of removing operational telescopes is also significant. Each telescope employs a staff of scientists, various technicians, engineers, mechanics, etc. With the removal of a single telescope many of these individuals will lose their jobs and Hawaii may then lose highly skilled professionals while further weakening the state’s and island’s economy.

The findings of the Ku-iwalu audit by DLNR claiming that UH did not adequately consult with native Hawaiian representatives is completely unfounded. Everyone had time to correspond with UH representatives during the review periods and no one (or group) should be given special treatment. Representatives of native Hawaiians opposed to the TMT and the other telescopes on the summit chose to exclude themselves from negotiations and consultation in the past. I support the TMT project and I respect the work of all the other telescopes and think that the removal of any of them would be a mistake.

With respect, I do not wish my identity made public because I don’t want death threats from protestors opposed to the telescopes.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.
Breimon ‘Ohana
Submittal Number: 304
Date submitted: 10/26/2021
Name: Jon Breimon
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives:  
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process:  
Comments on design guidelines: 
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.
Breimon ‘Ohana
Submittal Number: 305
Date submitted: 10/26/2021
Name: Zenaida Breimon
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.

Breimon ‘Ohana
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.

Breimon ‘Ohana
Comments on Mission, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies: Strategy 10 aims to facilitate development of a new astronomical facility on Astronomy Site 13, where the Thirty Meter Telescope (TMT) was previously permitted. The University of Hawai’i should recognize the irreversible cultural and environmental harm th

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The foreword to the Master Plan reads, in part, “Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them.” The language that the University of Hawai’i uses here, and the stance that it reflects, should be seriously reconsidered. It implies that the efforts of kiaʻi to protect Maunakea are simply a reaction to past historical injustices, and nothing more. This robs these efforts of urgency and importance in their own right. By implying that the struggle to protect Maunakea is not important in itself, but rather a reaction to past historical injustices, the University of Hawai’i can claim to be supportive of Kānaka Maoli worldviews while simultaneously funding TMT construction.

I agree that the adverse cultural effects of colonization, along with the continued occupation of Hawai’i, have inflicted immense historical injustices upon Kānaka Maoli. However, colonization is an ongoing process, not an event. The injustices we face, thus, are not only historical. Perhaps the University of Hawai’i feels that it cannot resolve past historical injustices. Even if this is true, UH can—and must—divest from projects that would allow for the continuation of injustice in the present day. TMT is one such project.

Development of the TMT on Maunakea, the piko (sacred umbilical cord) of our universe, would deny Kānaka Maoli the right to engage in our religious and cultural practices. Development of the TMT on national (ceded) land of the occupied Hawaiian Kingdom would deny Kānaka Maoli the right to our inherent and internationally recognized sovereignty. And development of the TMT on land that is zoned as conservation (under settler state land-use laws) would deny the Earth and all of us who depend upon it the right to survival—especially threatened species that are only found atop Maunakea. For these reasons, the development of TMT is a contemporary injustice. Science that denies Indigenous peoples’ right to exist is not science; it is development and continued colonization.
Comments on Missions, Vision, and Values: In section 1.2, respect for the Hawaiian culture, land, and Hawaiian practitioners is mentioned. The mission and values mentioned don't line up with UH's track record of taking care of Mauna Kea. We need more than words to be convinced that UH has the truest intentions of taking care of the natural and cultural environment over profit. In order to respect the "realm of the gods" as referenced in this plan, the land of Mauna Kea wouldn't be treated as the base of multiple invasive construction projects. It would be treated as a temple, treated as something sacred because thats what it is. It is a place, environment, and ecosystem that should be naturally preserved through Hawaiian culture.

Comments on Goal and Objectives: In this section it states that a goal is to protect Mauna Kea as a wahi pana and wao akua. You cant acknowledge a place is home to the gods while also being willing to destroy it through construction in the name of astronomy. This says you will respect ou

Comments on Strategies: This plan still includes plans to develop TMT despite 10+ years of efforts to prevent TMT from being built on Mauna Kea. Pushback against the TMT has been seen and heard throughout the Hawaiian community as well as support from around the world.

Comments on Halepōhaku facilities: As talked about in section 3.1.2, the area of halepōhaku is part of the critically endangered palila habitat. As said in this section, any construction or additional structures added in this area could be extremely harmful to the palila habitat. Especially since Hawaiʻi has some of the most extinct native animals and plants, it is even more important to protect and preserve our native birds like palila, as well as their native habitats. Its interesting that in the same area that talks about halepōhaku being a critical habitat for palila, there are still plans for multiple projects. How can you say you want to preserve the natural habitat of Mauna Kea while still trying to make plans to construct in that same area. On top of wanting to make that area bigger, there is a small telescope that they want to build even though there is already a small example telescope at the visitors center that is used. The hypocrisy of this plan stating environmental importances of this area while in the same breathe saying that they want to build and expand their area of man made things in this critical part of our Hawaiian ecosystem.

Comments on management and stewardship facilities in the MKSR: Helping an environment doesn't mean just planting trees, it means taking preventative and protective actions to ensure the wellbeing of these natural habitats containing endangered plants and animals. In this section it talks about facilities being sited

Comments on education, research, and astronomy facilities in the MKSR: As stated in this section, facilities in different areas of the island are used to support astronomy operations off the Mauna. These connected facilities such as Imiloa and UH can be used for majority of teaching settings instead of it being based at hale

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: 45 days is not enough time for anyone, let alone the general public, to look over this plan in detail and comment. For a plan that is titled "listen to the voice" this plan and comment process is not user friendly and gives those commenting a big disadvantage with the time limit as well as the comment format and the exclusion of the option to email in comments.
Submittal Number: 309
Date submitted: 10/26/2021
Name: Lorraine Waianuhea
Organization: University of Hawaii at Mānoa
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The University of Hawai‘i (UH) has not been a good steward of Maunakea and does not deserve to have its lease renewed. It is unacceptable that this draft of the Master plan includes the construction of new telescopes (including the Thirty Meter Telescope) and other infrastructure on the mauna. Mass demonstrations by native Hawaiians and allies to protect Maunakea have made it exceedingly clear that the University of Hawai‘i does not have (and has never had) the consent of the native Hawaiian people to build anything on the sacred peaks of Maunakea. Discussions with Hawai‘i island kia‘i (referenced in one sentence in Part I at the top of page 2) were unsuccessful because UH cannot take “no” for an answer, and the institution as a whole does not respect Hawaiian people and culture. The article, “A Native Hawaiian-led summary of the current impact of constructing the Thirty Meter Telescope on Maunakea.” (Kahanamoku et al., 2020) has many recommendations for ways UH could make changes to rebuild trust and create meaningful reciprocity with the native Hawaiian community and other indigenous peoples. This draft of the Master Plan does not address any of those recommendations which is more evidence that UH has not made genuine progress in listening to the voices of the native Hawaiian community.
Submittal Number: 310
Date submitted: 10/26/2021
Name: Amber Imai-Hong
Organization: Ohana Kilo Hoku
City, State, Zip: Keaau, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I strongly support astronomy on Mauna Kea. As a native Hawaiian researcher from Keaau, I believe that we need more sustainable industries like astronomy in Hawaii to help diversify our economy.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support TMT and Astronomy in general on Mauna Kea.
Submittal Number: 311
Date submitted: 10/26/2021
Name: Felicidy Phimmason
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The UH Master plan for Mauna Kea is a cultural theft. There is no benefit to Kanaka Maoli as a collective population, not just the one’s that the UH system wanted to cherry pick or tokenize to validate their poor morality for this project. Please no more further construction or desecration on Mauna Kea, give the Hawaiian people that.

The master plan contributes toward the genocide of Native Hawaiians pilina to ʻāina. The indigenous people of Hawaiʻi have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. In the United Nations Declaration on the rights to self determination for Indigenous Peoples, Article 7 states that “Indigenous peoples have the collective and individual right not to be subjected to ethnocide and cultural genocide, including prevention of and redress for any form of assimilation or integration by other cultures or ways of life imposed on them by legislative, administrative or other measures. Including any form of propaganda directed against them.” This form of propaganda is the UH master plan’s proposal. It perpetuates the desecration to both native Hawaiian people and their pilina to ancestral land genealogy because cultural sites have a birth place on Mauna Kea. If TMT continues its efforts under the propaganda of science for capital greed it too also continues toward the genocide of Native Hawaiians.
Submittal Number: 312
Date submitted: 10/26/2021
Name: Felicidy Phimmamone
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The UH Master plan for Mauna Kea is a cultural theft. There is no benefit to Kanaka Maoli as a collective population, not just the one’s that the UH system wanted to cherry pick or tokenize to validate their poor morality for this project. Please no more further construction or desecration of Mauna Kea, give the Hawaiian people that.
The master plan contributes toward the genocide of Native Hawaiians pilina to ‘āina. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. In the United Nations Declaration on the rights to self determination for Indigenous Peoples, Article 7 states that “Indigenous peoples have the collective and individual right not to be subjected to ethnocide and cultural genocide, including prevention of and redress for any form of assimilation or integration by other cultures or ways of life imposed on them by legislative, administrative or other measures. Including any form of propaganda directed against them.” This form of propaganda is the UH master plan’s proposal. It perpetuates the desecration to both native Hawaiian people and their pilina to ancestral land genealogy because cultural sites have a birth place on Mauna Kea. If TMT continues its efforts under the propaganda of science for capital greed it too also continues toward the genocide of Native Hawaiians.
Submittal Number: 313  
Date submitted: 10/26/2021  
Name: Jordan Osborne  
Organization:  
City, State, Zip: ,  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: Mauna Kea is ancestrally, culturally and spiritually sacred to Kanaka Maoli, and continuing with this project despite their objections is wildly disrespectful. Scientific "progress" should never be made at such a price; it's shameful. What's more, the desecration of a sacred mountain to daydream about the stars is wrong. Why not spend the time and energy that's been spent justifying TMT on trying to mitigate the climate crisis?
Submittal Number: 314
Date submitted: 10/26/2021
Name: Katherine Eberdt
Organization:
City, State, Zip: Seattle, WA 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: We should prioritize what we have on earth over what we might find in space. I oppose building the TMT. Sacred natural spaces all over the globe have been lost because colonists have prioritized their interests over the lives and culture of indigenous inhabitants. Mauna Kea is more valuable undisturbed than the TMT could ever be. Thank you for considering my comment.
Submittal Number: 315
Date submitted: 10/26/2021
Name: Marcy Ulep
Organization:
City, State, Zip: Makawao, Hawaii 0
Comments on Missions, Vision, and Values: No TMT!
Comments on Goal and Objectives: No TMT
Comments on Strategies: No TMT
Comments on Halepōhaku facilities: No TMT
Comments on management and stewardship facilities in the MKSR: No TMT
Comments on education, research, and astronomy facilities in the MKSR: No TMT
Comments on access management facilities: X
Comments on proposal review process: No TMT
Comments on design guidelines: No TMT
General/Other comments: No TMT
Submittal Number: 316
Date submitted: 10/26/2021
Name: Fehren Jones
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Caught between the abusive mismanagement of the past and having a hopeful change of the future. Build trust with the Native Hawaiian. The emotional and mental damage that University of Hawai'i and DNLR has done, still hurts. NO TMT!!! All Hawaiians should have access to Mauna Kea at all times, especially native practitioners. No more telescopes to be built. Current telescopes is an eyesore, like a manmade cyst on an infant's pure skin. Use and care of the telescopes that are currently working. Malama them first. Keep your words of decommissioning. Educate visitors, the truth of care and overthrow, and have them pay a fee. All funds should support non profits, Hawaiian charters schools, Hawaiian communities, assist in kick starting grassroots organizations. I havent had much time into reading/keeping up with the latest. I'll look into this a bit more when time allows. Mahalo for your time.
Konveio General Comment Forms

Submittal Number: 317
Date submitted: 10/26/2021
Name: Tressie Ostermiller
Organization:
City, State, Zip: Kailua, HI 0

Comments on Missions, Vision, and Values: I do not consent to the building of TMT on Mauna Kea.
Comments on Goal and Objectives: I do not consent to the building of TMT.
Comments on Strategies: I do not consent to the building of TMT.
Comments on Halepōhaku facilities: I believe you should take care of what is already there.
Comments on management and stewardship facilities in the MKSR: I believe you should take care of what is already there.
Comments on education, research, and astronomy facilities in the MKSR: I believe you should use what is already there to educate students. Much can be learned from the past mistakes of management as well.
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 318
Date submitted: 10/26/2021
Name: Gemma Ley
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: As a long-standing member of the Big Island community, I would like to share that I support the UH Mauna Kea Master Plan. I believe that over the past few years we have all learned the value of community input and responsible stewardship of Mauna Kea. I also support the TMT project. It is my belief and opinion that UH, Keck and CFH have learned some valuable lessons and have adopted sound practice for decommission of some existing observatories per the original agreement, future construction practices with respect for the public and for Mauna Kea. I also believe that support for advancement of science in our community here on the Big Island as well as our world community is of the highest and best benefit overall & here on our island for educational opportunities for our children and our economy. I hope that the public will still have free access to visit, to hike and enjoy Mauna Kea for the next 20 years.
Mahalo for the opportunity to comment.
The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.

4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.
Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,
Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director
Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
Submittal Number: 320
Date submitted: 10/26/2021
Name: Amy Nishimura
Organization: UHWO
City, State, Zip: 
Comments on Missions, Vision, and Values: The values do not align with the mission of UH.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities: Please define repurposing of facilities that will not have a negative impact on the surrounding area.
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process: There should be several town halls on every campus because this impacts everyone. Reading a long document without conversation and dialogue is not inclusive.
Comments on design guidelines:
General/Other comments:
Two hundred submitted testimony at state Board of Land and Natural Resources “emergency rule” meeting in Honolulu on July 10 to testify in a small hearing room, with those waiting outside watching TV, which was muffled and difficult to hear. It was intimidating, disheartening, as not all testified because of return flights. BLNR should have held the hearing on Hawaii Island being that the issues significantly affect our island, and the travel costs, which ranged from $300 to $500, were prohibitive for some.

Testimonies overwhelmingly opposed the emergency rules, which ended at 9:45 p.m. BLNR returned at 10:30 with a 5 to 2 decision in favor of “emergency rules.” Woodside and Gomes, opposed. Woodside, emotionally expressed other “tools” should have been in place to handle Mauna Kea suggesting an alternate process more “in tune” to the protectors’ concerns. I agree.

As a former appeals/legislative attorney, and an individual who has consistently fought for civil rights of all people, I have a good understanding of administrative/judicial procedure. BLNR’s procedure is flawed, unfair, unjust and skewed and “stacked” against the protectors. In my view, the hearing was a “dog and pony” show to appease the protectors that they were having a fair hearing.

Is there an equitable process? Doubtful. Why? In 1959, Hawaii becomes a state. At that time, more than a million acres of prime ali`i lands are “transferred” to the state as “public” lands with a provision that 20 percent of the income of these lands go to the Hawaiians. Included in this transfer are Mauna Kea lands.

Eight years after statehood, in 1965 under Gov. John Burns, Act 209, is passed to create Research Corporation of University of Hawaii (RCUH) — as a “nonprofit” conduit, state agency — exempt from financial scrutiny under the law.

Today, 50 years later, RCUH, with a staff of 3,000 earning $113.5 million, was audited in June 2015, and continues to exist as a dysfunctional institution — no long-term strategic plan, board members ill equipped to perform policymaking and oversight, misleading financial statements) — managing millions of dollars.

The Hawaii Department of Land and Natural Resources leased Mauna Kea lands to RCUH for $1 per year, which ends in 2033. RCUH then subleases to the Thirty Meter Telescope. Is it possible that a dysfunctional, deteriorating, broken state agency continues to handle multimillion or multibillion dollar projects like TMT without financial scrutiny? In my view, the Research Corporation of the University of Hawaii is a political conduit for state and federal dollars.

The political interplay for that almighty dollar between former congressional members and governors is evident in the current case of Kilakila o Haleakala vs. University of Hawaii, concerning the ATST telescope on Haleakala. During a March 29,
2012, contested case hearing, BLNR allegedly fired a state hearings officer for allegedly failing to succumb to political pressure from Sen. Daniel Inouye and Gov. Neil Abercrombie’s office with regard to his ATST findings and conclusion.

Gov. David Ige manages the Attorney General’s office, RCUH, DLNR, BLNR and National Guard and has a duty to all of Hawaii’s residents. Undoubtedly, he is pressured by TMT stakeholders to devise “emergency rules” so that “progress” is not impeded on Mauna Kea.

A significant number of the protector Native Hawaiians truly believe, like myself, that Mauna Kea is a sacred place and deserves protection. This ongoing 15-year struggle has been largely ignored by the state.

Is there a remedy? Under the present system, the First and 14th Amendment remedies — tedious, lengthy, cumbersome. Since the Public Access Shoreline Hawaii decision, there has been an continuous erosion of Native Hawaiian rights. Mauna Kea, a symbol of where sacred and cultural purposes fit in the state government’s priorities — at the bottom — “managed” and “mitigated,” especially after decisions have already been made about the so-called highest and best use of lands for profit and prestige.

In November, Nai Aupuni is charged with handling our elections for a Hawaiian Nation. Only then, will we be able to establish our own policies, procedures, government and a process that we can connect with culturally — a process that recognizes our love for the land, our beloved kupuna and one that empowers us to provide for future generations. This is our remedy.
Submittal Number: 322
Date submitted: 10/26/2021
Name: Jennifer Kauʻi Young
Organization:
City, State, Zip: Kealakekua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I oppose the construction of TMT due to the ongoing resource mismanagement issues and illegal use of lands designated for beneficiaries of the 1921 Hawaiian Homes Commission Act. Of course, there is the larger political issue of America’s illegal occupation of Hawaiʻi. Any land management decisions made by the entity known as the state of Hawaiʻi are illegal according to International Humanitarian Law, and has been formally recognized as such by the U.N. I oppose the building of the thirty-meter telescope and any illegal structures on stolen land, now and forever.
Submittal Number: 323
Date submitted: 10/26/2021
Name: Amber Needham
Organization:
City, State, Zip: Kailua-Kona, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: The new UH Mauna Kea Master Plan, though thoughtful in some areas including improvements for community use to already existing structures and areas, still proposes the building of the Thirty Meter Telescope (TMT). Today this remains an undesirable, offensive
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 324
Date submitted: 10/26/2021
Name: daylan DeMello
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: "The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. " Stop the desecration of Hawaiian lands! I've just begun to understand my genealogy and how proud we Hawaiians are as people. We’ve been taken advantage for over 127 years and enough is enough!
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: As a resident of Hawai‘i, a UH alumni, and as an ally to kānaka maoli, I strongly oppose the building of the thirty meter telescope (TMT) or any other structure which is built without the consent of the Native Hawaiian population. To build the TMT would be an act of desecration which Mauna O Wakea has already suffered, both spiritually and environmentally. To proceed with building any structure on this mauna would be an act of betrayal to the stewards of this land and the progenitors of ʻōiwi culture and way of life.
Regarding the plan’s objectives, I’d like to focus on what they do not do or say. They do not mention aloha ʻāina. They do not mention what it is productive or positive. To be a true leader, to model and lead in the area of stewardship through active, engaged, and respectful protection of the mauna. I believe UH has the opportunity to be a true partner, to act on the values they list rather than just listing them as they are strategically bent to suit astronomical priorities. I’d love to see UH become a place that teaches students and communities about tending to, protecting, and loving the earth before destroying it to gaze into space. In sum, I’d like to see aloha ʻāina—not in word, but in real, radical action—reflected in the plan.

I emphasize this portion of the foreword to point to the fact that one of the key problems with the plan is that it assumes colonialism as a given, as something complete, and in the process, normalizes settler presence while denying Indigenous rights. While citing Hawaiian cultural values and nodding to Kānaka Maoli beliefs, it maintains that Indigenous ways of knowing and being in the world can be compromised and disturbed for UH’s clear commitment to astronomy. The foreword talks about the potential to “ʻāwili,” or to weave “the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place” (xiv). This statement also supports my critique that the plan does not truly honor Kānaka. The term “kūpono,” for instance, which is listed as one of the plan’s core values, is used to speak to astronomical resources, despite the fact that kiaʻi (protectors) have been saying for decades that the construction of telescopes on the mauna is destructive. The root of “kūpono” is “pono,” which means to be just, righteous, and fair. You cannot be pono, or just, as long as the priorities of UH are placed above those whose lands, beliefs, and values are being disrespected. In short, when the use of ʻŌlelo Hawaiʻi is used in a way that is not pono, or not truly aligned with the values being talked about, then it is tokenistic: a gesture with very little weight that is more insulting than it is productive or positive.

Regarding the plan’s objectives, I’d like to focus on what they do not do or say. They do not mention aloha ʻāina. They do not consider what true stewardship and protection could look like and feel like. They do not acknowledge the Indigenous, it actually undermines Indigenous place by assuming that astronomical exploration and Indigenous cosmology are two examples of the same thing when in reality one is steeped in connection to place and aloha ʻāina and the other is built on the displacement of people, the denial of Indigenous rights, and the desecration of sacred place. There can be no balance as long as the construction of telescopes and the expansion of facilities result in destruction and desecration.

To comment specifically on Part 1: Foundations, the mission, vision, values, goals, objectives, and strategies all clearly prioritize astronomy. Even while referencing Hawaiian values and using Hawaiian terms (some of which I believe are used inappropriately), the plan itself does not truly honor Kānaka. The term “kūpono,” for instance, which is listed as one of the plan’s core values, is used to speak to astronomical resources, despite the fact that kiaʻi (protectors) have been saying for decades that the construction of telescopes on the mauna is destructive. The root of “kūpono” is “pono,” which means to be just, righteous, and fair. You cannot be pono, or just, as long as the priorities of UH are placed above those whose lands, beliefs, and values are being disrespected. In short, when the use of ʻŌlelo Hawaiʻi is used in a way that is not pono, or not truly aligned with the values being talked about, then it is tokenistic: a gesture with very little weight that is more insulting than it is productive or positive.

Regarding the plan’s objectives, I’d like to focus on what they do not do or say. They do not mention aloha ʻāina. They do not consider what true stewardship and protection could look like and feel like. They do not acknowledge the Indigenous wisdom that Kānaka have to offer about how to exist in relation to the natural world. They do not go beyond astronomy. The foreword mentions “trade-offs” and talks about the belief that “astronomy, education, cultural practices, science-based environmental management, research, and responsibility conducted public activities can coexist” (7). This assumption is based on the premise that desecration is justifiable because the pursuits of astronomical research are more important, and for the “greater good” than our cultural beliefs. To ask for “trade-offs” and for “co-existence” is to ask that Kānaka Maoli to compromise, to once again be the ones to give. When our values as the Indigenous people of Hawaiʻi are, yet again, framed as being just another set of beliefs and values amongst many, our right as first peoples is denied.

I raise these issues and critiques because they speak to the core problems of the plan as a whole. To continue to allow for the expansion of astronomy on the mauna is to continue to disrespect, desecrate, and destroy Indigenous places, beliefs, and futures. This must be addressed and must be remedied. Anything less than a halt to construction and a genuine respect of ʻāina will not be acceptable.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on design guidelines:

General/Other comments: Within the last few days, two of Hawai'i's telescopes have made international news: the tracking of asteroids within close proximity of Earth by the Daniel K. Inouye telescope on Haleakala, and through the Subaru telescope on Mauna Kea, the discovery of a young planet near a distant star, providing insights about how planets are formed. Imagine the brain busting advancements that will be made by the TMT! Ironically, while advances in astronomy were making headlines, a group of TMT protesters demonstrated outside the home of UH President, David Lassner. The result was an immediate backlash by at least 98 commenters in the Star-Advertiser, supporting the TMT and denouncing the very loud minority. As Lucy told Charlie Brown, "If you can't be right, be wrong at the top of your lungs."

There is no need for science, culture, and religion to be mutually exclusive but interwine, each supporting the others. If we live only for science, we lose the beauty of the sacred that gives us our conscience. If we live only for the sacred, we lose knowledge of this precious world.

Freedom of science and inquiry cannot be repressed; nobody, no matter how they try to justify it, has the right to slam the lid on knowledge.

Major advancements through the most powerful telescope ever developed will honor the navigational skills of the brave early Hawaiian explorers and has tremendous implications continuing man's inherent drive to push beyond known boundaries, finding forming galaxies near the beginning of time.

Rather than threatening this sacred heritage, the TMT will enhance and enable the furthering of Hawaiian culture and beliefs, so intrinsically aligned with astronomy, while continuing to contribute millions of dollars annually to education and the economy.

Discoveries of our genesis will be Mauna Kea's everlasting gift to the world.

Imua TMT!
As a summary of my overall viewpoints, I have commented below.

The overarching goals of the new Master Plan are to reduce impacts to the resources, especially in the summit region, by limiting development; to create better balance among cultural, environmental, scientific and recreational interests; and to broaden Native Hawaiian and community participation in planning and programming.

I do not think that reducing impacts to resources will be served by decommissioning telescopes. The fuel oil burnt in removing structures is the most significant impact to the environment. There is also increased risk of invasive species with the traffic involved in decommissioning. Native plants and other species are currently monitored very carefully and are protected. The telescopes do not directly impact these resources. The best outcome would be to make continued use and improvements to the facilities already developed on the mountain. An unused telescope facility could be used as a cultural site for cultural worship and education. The facilities exist. Wanting them to be gone and disappeared ignores the costs of dismantling them; which could prove to be a more grievous injury in total, and wastes the resources initially used.

There are challenges in balancing the cultural, environmental, scientific, and recreational interests but I think the University in recent years has tried hard to work towards managing these interests. However, it would be a mistake to think that all these interests can be balanced in the same location and way, and that is why there are different preserves with different goals. The primary goal of the science preserve is science. The primary goal of the cultural preservation sites is to protect. I believe the scientific and environmental issues are currently fairly well managed and balanced.

Recreation has been limited in commercial operations but the burgeoning interest by individual tourists has not been well-managed. Rather than being treated only as a problem which should be limited; this interest could have been viewed and developed as an benefit to create more opportunities for both cultural and astronomical education, employment, and support. Cultural recognition and integration has been delayed, and complicated by issues playing out in other venues. Mauna Kea is not the best place to solve these overarching issues. Astronomy began developing on Mauna Kea before the Hawaiian cultural renaissance gave voice to the people. Over time, I think cultural issues have become more integrated in management but are challenged by the great diversity of viewpoints and goals among Hawaiians. There is no one correct view, but there is a need to balance and portray issues accurately, without the rampant misinformation, reflecting that diversity of viewpoints and cultural interpretations.

Comments on the plans highlights:

Fortification of UH’s commitment of no more than nine operating astronomy facilities on Maunakea by December 31, 2033. I disagree with this goal. It was created in an aura of political confusion based on misinformation and lack of research before promises. It accomplishes nothing that satisfies either the cultural opposition or the scientific goals of the astronomy program. It was not based on environmental protection rationales nor does it serve cultural goals.

Providing mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.

These mechanisms have been in existence for years and have been widely utilized. Input from the native Hawaiian and broader community has been extensive and has resulted in significant changes already to the management of the mountain. At some point there must be a final decision that is honored, as adequate information has been presented.
Support for the UH Hilo Educational Telescope at Halepōhaku (the mid-level facility).
I support the existence of a student telescope and Halepohaku may be the best location short of the summit. However, as stated above, I believe the decommissioning goals were politically set without fact-checking and adequate understanding of the realities of the summit and differences among the telescopes. I do not believe Native Hawaiians or any Hawaii residents want their own students to be short changed by lack of access to the best viewing site in the world, when it is located in the land of their heritage.

Establishing a UH Hilo-led “Multi-disciplinary Field Station” at Halepōhaku to support field studies and learning experiences across disciplines.
I think this is an extremely important and viable goal, educationally and culturally relevant. It continues to make use of the valuable resources of this facility.

Maintaining the Maunakea Observatories’ status as world leaders in astronomy.
As someone who lost their job in the pandemic, and saw the impacts to Hawaii’s ‘over dependent on tourism’ economy; I think it is vital that we diversify and have other sources of income. We have been and can continue to be world leaders in this technical field, which will encourage innovation and widespread new industries.

It is vital for our youth to have more opportunities than jobs in tourism enterprises. It will bring up the achievement level and educational quality in our low ranking schools.
Those who first settled Hawaii were among the most knowledgeable and skilled star gazers in Human history. It would not be culturally appropriate or beneficial to abandon that status. It is not in the tradition of aloha to deny the rest of the world the knowledge and opportunities that result from this world class site.
Submittal Number: 329  
Date submitted: 10/26/2021  
Name: Jessica Kuzmier  
Organization:  
City, State, Zip: Kailua Kona, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: Aloha, I have read the Master plan and also heard the presentation on YouTube, and it is my hope and also my concern that you observe kuleana by recognizing that you are a guest on the mauna and that the land belongs to the people. I am completely for astronomy and for the prospective plans for TMT, as long as they coincide with the principles not only of recognizing cultural needs, but that of climate change and conservation.  
From my reading of the plan, there appeared to be some level of evasion whereby you offered a concession to conservation but only with major caveats that seemed to suggest a back door for you to escape. An example is your stated concern about total restoration after the removal of various telescopes and full restoration, whereby you stated that full restoration would entail moving a parking lot to an endangered habitat.  
To be frank and with all due respect, this kind of statement seemed to suggest that you were saying ‘if everything was perfect, we could restore everything the way it was, but since it isn’t, let’s just leave everything as it is and see what happens’. As professional scientists and engineers who are aware of the biome and ecosystem on the mauna, I believe you can do both, protect the habitats while making visitation accessible for those who need and want it so I suggest that you proceed with this objective of full restoration to the mauna’s original state prior to the construction of the telescopes, once the scheduled ones are removed.  
I also suggest that as joint co-tenants with the DLNR and as an institution that emphasizes other hard science disciplines such as biology and geology, that you increase your studies in arenas other than astronomy as it appears that your major focus is astronomy at the expense of other focuses. The Multi-Disciplinary Field Station at Hale Pōhaku sounds like a good start, and I have some suggestions for your project as you go forward with this objective.  
I am aware that part of the Science Reserve shares space with the Mauna Kea Ice Age Natural Area Reserve. It is vital that any and all activities that take place in the Science Reserve, regardless of discipline, preserve the vitality of the ecosystem that resides there by insuring any runoffs and spillages that are incurred by the astronomical facilities. I also believe that utilizing the disciplines of ecology, biology and geology, as well as engineering skills, you can provide both education for the public and your own student body as well as an eye to the future by creating a biodegradable, zero-waste environment for all proposed construction and facility operations, with the eye on zero-emission by 2030.  
Additionally, although the main focus of all disciplines take place above the treeline, I believe that the Master Plan should emphasize and increase collaboration with the DLNR to participate in the Mauna Kea Restoration Project, as facilities such as the Hale Pōhaku that are facilitated by the University are within the scope of the project, as well as restoration of the palila habitat. Projects such as watershed conservation and education, establishing weather stations to teach and focus on climate change and what we can do to mitigate the effects, are important as well.  
As a side note with regards to the Mauna Kea Restoration Project, there is a way that University of Hilo can kuleana not only to the island but the world as well. I am sure that you have heard of the Better Globe Forestry Foundation’s goal to plant, restore or set aside enough preserved land to reach 1 trillion trees by 2030. As a state, Hawaii has pledged 100 million trees, and Hawaii County itself has so far pledged 1 million. As your lease resides on state property, located on Hawaii Island, I suggest that you pledge native trees and alpine plants such as ‘Ahinahina (Hawaiian silversword) and Māmane trees, as they are endemic at the lower ranges of your preserve as part of this international kuleana to restore and regenerate our world. After all, as an entrusted servant to educate our future leaders, you have a responsibility to ensure that the future that they inhabit is one where they can enjoy the natural wonders of the world, as well as making sure that you do what you can to ensure that future is habitable, sustainable and enjoyable for them.  
Mahalo for taking the time to hear my perspective and all the voices that contribute to our ohana.
Submittal Number: 330
Date submitted: 10/26/2021
Name: Alzira Fernandes
Organization: University of Hawaii at Manoa
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I do not agree with the building of the telescope on sacred land. Plain and simple. I believe in scientific advancement for all peoples, but we need to listen to the people for whom the land is sacred. The building of this telescope would be against UH's core values.
Submittal Number: 331
Date submitted: 10/26/2021
Name: margaret Walker
Organization: Coldwell Banker
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 332
Date submitted: 10/26/2021
Name: Henry Boothe
Organization:
City, State, Zip:

Comments on Missions, Vision, and Values: For decades, kanaka maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaii and abroad in opposition to the building of the 30 meter telescope on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration. Over half a million kanaka maoli, residents, and world citizens have provided testimony at countless hearings and petitions opposing the building of the TMT on the summit of Maunakea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 333
Date submitted: 10/27/2021
Name: Julie Kaai-Kanekoa
Organization:
City, State, Zip: Honolulu, Hi 0

Comments on Missions, Vision, and Values: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Goal and Objectives: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Strategies: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Halepōhaku facilities: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on management and stewardship facilities in the MKSR: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on education, research, and astronomy facilities in the MKSR: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on access management facilities: X

Comments on proposal review process: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on design guidelines: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

General/Other comments: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!
Submittal Number: 334  
Date submitted: 10/27/2021  
Name: Karelle Siellez  
Organization: Institute of Astrophysics in Paris  
City, State, Zip: Paris, 0  
Comments on Missions, Vision, and Values: While it is great to acknowledge that mistakes has been made in the past, it would have been fair to reconsider the stewardship of UH regarding Mauna Kea.  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities: While repurposing facilities "as close as before" that could be done, maybe considering what has been lost and will never be retrieved in the process could help shape the future decisions. So when it comes to creating another telescopes, now is the time to listen to the voice that have never been wrong, and always protected the Mauna.  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: As an astronomer, I feel that Kanaka Maoli cultural practitioners are the rightful caretakers of Mauna Kea, and not UH. While I understand the need to find another way for people to have access to a "more diversified economy that includes greater support for research, education, and technology and less dependence on tourism", I don't understand why you're not giving back the stewardship to the people who always seek the protection of both: people and the land. Knowledge can be gain in another way, Science would gain to be decolonized, and UH could be a pioneer in working hand in hand with Kanaka Maoli cultural practitioners by giving them back the protection of the moutain, and with astronomers by showing them another way of learning and listening. Science without social justice is not the way, and it starts with listening to each single one of the native Hawaiian. Thanks.
Submittal Number: 335
Date submitted: 10/27/2021
Name: Kainalu Steward
Organization: University of Hawaii at Hilo
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a Native Hawaiian, alumni of UH Hilo and current graduate student at the university, I do NOT consent to the building of the Thirty Meter Telescope (TMT). It is disappointing and gut wrenching to have to see this process continuously being pushed upon our people at the expense of astronomical development, after countless expressions from the community that we do not want TMT to be built. As a student and a Hawaiian, I expect my university to support the decisions of the Native people, who's land we currently reside and extract way too much from. Mahalo for your time.
Submittal Number:   336
Date submitted:     10/27/2021
Name:              Kathleen Price
Organization:
City, State, Zip:  Waialua, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Interesting show on History Channel Ancient Aliens S14/E12 Islands of Fire. Discusses how native Hawaiians trace their ancestry to beings from the Pleiades star system called Akua. Show may provide some insight and argument as to why Hawaiians should con

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 337
Date submitted: 10/27/2021
Name: D. Maui
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: A minority group of hard core native Hawaiians has taken an anti-haole/anti-statehood stance that opposes the TMT on those grounds. They are anti-astronomy, anti-science, and anti-education. Using the guise of "culture", their every whim has been granted by the haole invaders. They thrive by living in the past. They continue to praise pagan gods and worship their "sacred rocks", all while carrying smart phones. In Egypt, 4,500 years ago, the Egyptian people had their pagan deities as Egypt was ruled by the pharaohs. Today, no one in Egypt worships the old pagan gods anymore; the 2 main religions are Muslim & Coptic Christian. This fact illustrates that Egyptians are far more educated than the hard core Hawaiian natives who still revel in their past. They don't want any telescopes atop Mauna Kea; time to give them what they want. Decommission/dismantle all telescopes and prohibit all new ones. They claim that they never voted for statehood, so revoke it; let them rule their kingdom with no aid from the U.S. Don't fret about the kingdom; when it needs help, Beijing & Kim will line up to assist them but the price will be much worse than that under the USA. Immigrants from around the world are literally dying trying to gain access to the benefits of the U.S. The USA should take applications from any nations that WANT to become the 50th state. Enough of the whining, crying, sniveling from the hard core natives who defy the haole courts by speaking in Hawaiian when they are teachers of that language at UH Manoa. I am confident that the UN General Assembly will not provide a translator into the Hawaiian language since the person has a firm grasp on the English language. Once statehood is revoked the kingdom can replace the statehood holiday with their preferred choice: "K_Il Haole Day" (the last day of school)and if they cannot choose between the 2 preferential dates for the new holiday, then celebrate the day twice each year---once on September 11 & again on December 7th. The majority of native Hawaiians will not speak up against this minority; they are well aware of their vicious, retaliatory nature. Once the kingdom is restored, perhaps, the new rulers will bring back ALL of their culture, including human sacrifice and cannibalism? The biggest failure of the hard core natives is that they believe that the Hawaiian culture is superior to ALL others on earth. Currently, there is no "aloha" in Hawaii; tourists are haole intruders; those who move here are haole invaders. Tourists should be urged to vacation elsewhere: Tahiti, Pago Pago, Fiji, etc. Once the world learns that Hawaii is not the paradise that they were lead to believe and they take their tourist $$$ elsewhere, the islands of Hawaii will become a haven for the homeless, the unemployed, and few will have access to decent healthcare. THIS is where the hard core minority natives are taking Hawaii; BACK 10,000 years to the stone age, "sacred" stones that is... D.
Konveio General Comment Forms

Submittal Number:  338
Date submitted:  10/27/2021
Name:  Michael Nassir
Organization:  Univ. of Hawaii
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:  I strongly recommend NOT forcing the decommissioning of 2-3 additional facilities (like UKIRT, UH 88", or IRTF) while they are still in such active, productive scientific use. For relatively low cost and low impact, they continue to make outsized scientifi
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I strongly support the construction of TMT. It will ensure that the Big Island will continue to have a strong influx of external funding and hundreds of high-paying jobs. Plus, it will help to continue Hawaii's reputation world-wide as a place where inspirational science is conducted and shared with the world.
Submittal Number: 339
Date submitted: 10/27/2021
Name: Anonymous Anonymous
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: This is a wonderful opportunity for our Keikō and our State to strategically embrace the an industry that can create future jobs for our kids in a high tech, growing space that already aligns with our educational and cultural initiatives at all educational levels. This and all developments need to be done in a Pono and sustainable manner, however, assuming that is the case this project represents a huge opportunity for Hawai’i to be a leader in this space and to be part of the global science in understanding our place in the universe. We seem to have a reactive perspective to this project instead of a forward thinking strategy for our entire state. How will our kids grow up and make a living in Hawai’i? We complain about the low wages of a tourism based economy, we’ll this is a great opportunity to start to diversify our economy which is part of being sustainable. This project needs strong leadership but I believe this project should move forward as it benefits our keiki, our states strategic vision, UH, and our planet. Can unused telescopes be taken down? Why not? But please continue to move forward with this project. It might not be popular but it’s the right move and the right communication and strong leadership can be supported by the community at large.
Submittal Number: 340
Date submitted: 10/27/2021
Name: Laurie Avilla
Organization:
City, State, Zip: Anahola, Hawaii 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Aloha,
Mahalo for taking the time to read my comment;
To you and all your investors I, and my Ohana are not Pono with the decisions your "stewardship" have been doing since this inception of All these telescopes. 1) What happened to the state motto of

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
To Whom It May Concern,

The Kona-Kohala Chamber of Commerce brings together the business community as a strong, united voice to address key issues in our community, on our island and in our state. Founded in 1968, our 430 member businesses and organizations represent a wide range of industries such as agriculture, aquaculture, astronomy, banking, construction, education, finance, food service, healthcare, media, non-profits, retail, real estate, tourism, technology, transportation and more. We exist to provide leadership and advocacy for a successful business environment in West Hawai‘i. Our goal is to enhance the quality of life for our community through a strong, sustainable economy on Hawai‘i Island.

We support the Draft Master Plan for the University of Hawai‘i Maunakea Lands, E O I Ka Leo. We believe in the UH’s mission and purpose to “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and multi-disciplinary discourse. Provide opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom and values while fostering mutual understanding and respect.”

For many years, the Kona-Kohala Chamber of Commerce has identified Astronomy as a top priority. We strongly support the astronomy industry on Maunakea noting significant scientific discovery, global leadership, educational outreach, workforce pipelines, jobs and economic impact. Hawai‘i has worked diligently to diversify its economic sectors and attract high tech industry to create more opportunities. Hawai‘i’s astronomy sector provides needed economic diversity with a statewide impact of $167 million. Astronomy activities generate over $52 million in earnings, over $8 million in state taxes and 1,400 jobs statewide.

In the Master Plan’s opening message from the UH Board Chair and UH President, they state, “UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawai‘i’s economy and employment opportunities.”

They also state, “UH’s Institute for Astronomy is one of the Nation’s largest and finest university astronomy programs, a source of pride to Hawai‘i, because the astronomy facilities on Maunakea stand as the most respected and productive in the world.” We are very grateful to the UH Institute for Astronomy and Maunakea’s astronomy industry for well-developed, impactful programs that better prepare Hawai‘i students to become the workforce for higher paying science and technology jobs in Hawai‘i’s 21st century economy.

We strongly support University of Hawai‘i management and state lease renewal on Maunakea. The University of Hawai‘i is by far the best option for a management structure on Maunakea and the lease renewal of 2033 is an urgent matter that must be addressed soon. The University has taken significant steps to address issues and improve management. We applaud the depth, scope and considerations embedded in the Master Plan pertaining to land use and facilities along with the Comprehensive Management Plan that fully outlines related activities and resources. UH recognizes that it must protect Maunakea’s value as a culturally significant landscape as well as a premier location for astronomy. Additionally, UH acknowledges this special place is a destination for residents and visitors seeking cultural, educational, recreational, and exploration experiences. With entities in place such as the Center for Maunakea Stewardship, ‘Imiloa Astronomy Center and
the Institute for Astronomy, the University of Hawai‘i has broad resources, vast knowledge and a steadfast commitment to provide the best possible stewardship under very complex circumstances.

We support culture, science and environmental stewardship on Maunakea. Maunakea is the one of the best locations in the world to study the stars. Our clear nighttime skies are one of Hawai‘i’s most precious natural resources that not only benefits those in Hawai‘i but all of humankind. We understand and respect the cultural values associated with Maunakea and believe science and culture can and will harmoniously co-exist in this special place. As mentioned in the E Ō I Ka Leo introduction, we support UH’s intent that this plan “serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible.” In fact, we recognized the University’s commitment to culture on Maunakea in 2017 when the UH Hilo Office of Mauna Kea Management (now Center for Maunakea Stewardship) was the recipient of the Kona-Kohala Chamber of Commerce Pualu Award for Culture and Heritage. The Chamber’s Pualu Awards recognize businesses, organizations or individuals that work together for the betterment of Hawai‘i Island. The meaning of pualu translates to “all together, in unison, and cooperative.” (Pukui & Elbert, 1986)

We support expanded educational activity and construction of a new UH observatory at the Halepōhaku Mid-Level Facility to continue the important work of teaching, training and conducting research. As mentioned in the plan’s opening message, “Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawai‘i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.” In Part 2, Section 3 of the Master Plan, it states, “The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management.” In the UH Commitment Regarding Use of Halepōhaku, it states, “The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope.”

Lastly, the Kona-Kohala Chamber of Commerce strongly supports the development and future operations of the Thirty Meter Telescope (TMT). Although this Master Plan draft does not specifically address TMT, we must voice our support for this permitted project. Since 2009, TMT has contributed millions of dollars to educational initiatives for Hawai‘i Island students that include The Hawai‘i Island New Knowledge (THINK) Fund, Workforce Pipeline and Akamai Internship Program. Additionally, TMT will provide 300 local and specialized construction jobs during the construction phase, and once the telescope is complete, employ 140 staff. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible and use local businesses for support services. We must acknowledge the positive contributions of TMT for our island community.

We greatly appreciate the opportunity to ‘voice’ our comments of support for the UH Master Plan for the Maunakea Lands, E Ō I Ka Leo.

Sincerely,

Wendy J. Laros, President and CEO
Kona-Kohala Chamber of Commerce
The Water Protector Legal Collective ("WPLC") is an Indigenous-led legal non-profit organization dedicated to providing legal support and advocacy for Indigenous peoples and Original Nations, the Earth, and climate justice movements. The WPLC submits this comment to the University of Hawaii ("UH") regarding the UH Draft Master Plan, E Ō I Ka Leo (Listen to the Voice) for land use management on Mauna Kea.

As the UH Draft Master plan acknowledges, in addition to its cultural landscape and unique ecosystems, as well as topographic and atmospheric qualities, Mauna Kea is a sacred place that is essential to Kānaka Maoli (Native Hawaiian) culture, spirituality, and ancestral knowledge. The Draft Master plan states that the UH "recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research, should reinforce, rather than conflict with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians."

While this renewed vision is a step in the right direction, along with a stated commitment in the Draft Master plan to decommission astronomy facilities on the mauna to no more than nine (9) total, the UH must go beyond words and diplomacy and recognize that if it to truly “E Ō I Ka Leo” (Listen to the Voice) as the name of the plan suggests, it must recognize that its stewardship of Mauna Kea requires UH to understand that any further development, particularly in the form of building a Thirty Meter Telescope ("TMT") on the summit (“Astronomy Site 13”) would constitute irreparable desecration to a sacred site.

WPLC urges the UH to protect Mauna Kea. Specifically, WPLC notes and recommends the following:

1) The UH must unequivocally cease any further development of TMT. Strategy 10 indicates it would facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three (3) existing astronomy facilities. While the plan recognizes there is some uncertainty regarding TMT, permitted for Site 13, the uncertainty comes from potential federal review of the project by the U.S. National Science Foundation, not from a willingness to change its plans for development.

2) The UH Draft Plan fails to present special or concrete measures on how it will include the voices of Kānaka Maoli, and is silent on ways it will provide access to the site and says nothing of the free, prior informed consent necessary from Kānaka Maoli as original peoples of Hawai’i.

The Draft plan states: "From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” This is a start, but must consider
actively how it will achieve this beyond the creation of committees and public fora, as well as understanding that consultation does not amount to consent.

The UN Declaration on the Rights of Indigenous Peoples ("UNDRIP"), adopted by the United Nations General Assembly in 2007 and recognized by the U.S. State Department as having both moral and political force, recognizes, among other things, that Free, Prior and Informed Consent ("FPIC") is a pre-requisite for any activity that affects Indigenous ancestral lands, territories, or natural resources—not just mere consultation.

FPIC "recognizes Indigenous peoples’ inherent and prior rights to their lands and resources" and respects their authority to “require that third parties enter into an equal and respectful relationship with them based on the principle of informed consent. Procedurally, free, prior and informed consent requires processes that allow and support meaningful choices by Indigenous peoples about their development path.”

3) The UH Draft Plan fails to recognize that building the TMT on Mauna Kea’s summit would constitute irreparable desecration, impacting the culture, spirituality, and ancestral traditions of Kānaka Maoli amounting to cultural genocide.

Article 7(2) of the UNDRIP states: “Indigenous peoples have the collective right to live in freedom, peace and security as distinct peoples and shall not be subjected to any act of genocide or any other act of violence...” Similarly, Article 8.2 of the UNDRIP says “States shall provide effective mechanisms for prevention of, and redress for… any action which has the aim or effect of depriving them of their integrity as distinct peoples, or of their cultural values or ethnic identities [and] any action which has the aim or effect of dispossessing them of their lands, territories, or resources.”

The systematic destruction of culture that occurs with loss of access to historical, ancestral lands of cultural significance, leads to irreparable harm and in cultural genocide when distinct peoples are dispossessed of their cultural values and identities.

4) The UH can resolve past historical injustices inflicted up and experienced by Kānaka Maoli by not adding to additional cultural trauma and impact.

Although the UH states that the Draft plan “cannot resolve past historical injustices” it can certainly choose to do things differently and respect and protect Mauna Kea as a sacred and cultural site. While the argument that astrological research may be “critical to fully understanding humanity’s place in the cosmos”, the UH cannot make this argument while at the same time forgetting its own place on this Earth. We urge the UH to consider that with stewardship comes important responsibilities for maintaining Mauna Kea for future generations.

On behalf of the Water Protector Legal Collective, thank you for the opportunity to provide comments at this important juncture.

Sincerely,
Natali Segovia, Esq.
Legal Director & Staff Attorney, Water Protector Legal Collective
Mni Wiconi. Water is Life.
Submittal Number: 343
Date submitted: 10/27/2021
Name: Tutui Akana
Organization: UH Ka Haka ʻUla Language School and Waimānalo Hawaiian Civic Club
City, State, Zip: Honolulu, Hawaii 0

Comments on Missions, Vision, and Values: The mission is well written, however, the politics of the state as well the University of Hawaiʻi has a long history of not truly listening and upholding said Hawaiian values. For decades, Kanaka Māoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanakas, Hawai‘i residents, and world citizens have provided testimony at countless hearings, signed positions, and petitions opposing the building of the TMT on the summits of Mauna Kea, the highest, and most sacred piko of our islands; some kanakas even believing the Mauna Kea marks the beginning of the creation of the Hawaiian nation.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on management and stewardship facilities in the MKSR: Reiterating again about how politics play a role in this issue, how do the needs and wants of a few in power outweigh the cry of the majority in opposition to Mauna o Wākea? TMT will be positioned on stolen Hawaiian lands and in the middle of a conservati

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: It is sad to see the downfall of my people still occurring in my lifetime while I am studying for the restoration and revitalization of our culture at UH Hilo, Ka Haka ʻUla o Keʻelikōlani. If she was here, she would not argue what is pono and not pono about this issue. It is indeed a burden to carry as a native person, to watch as our most sacred places fall to the hands of greed and money, in the name of "Science" and now "culture"... but such terminology brings back painful history that has been inflicted on my kūpuna (who are STILL ALIVE) that I continue to feel now in my koko and my hā.

Shame on the university of using Hawaiian values and ʻōlelo to champion this project, but totally missing the whole point of these values and ʻike just because of greed and kālā. Shameful.
Submittal Number: 344  
Date submitted: 10/27/2021  
Name: Sunaina Keonaona Kale  
Organization:  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: Aloha,

My name is Sunaina Keonaona Kale. I’m Native Hawaiian, and I’m a postdoctoral fellow at Dartmouth College. I did my PhD at UC Santa Barbara and BA at UC Davis. Here are my comments:

--The State of Hawai‘i and UH have no jurisdiction over Mauna Kea but are leasing it at $1 a year. Mauna Kea is crown lands and therefore stolen. All of the items suggested in the plan are therefore illegal. The master plan is framed as if everything in it is definitely going to happen, but this is not the case.

--It is disingenuous to call the draft “e ʻō i ka leo” and to say that you are listening to Native Hawaiian voices. You are not. We have said repeatedly that we don’t want TMT but you have refused to listen. We did not ask for “cultural engagement” as a part of the TMT’s plan, and it will not make it for the fact that you are not listening to us.

--Item 5.3 in the “Physical Plan” that designates that you are planning to build a gate to manage who can go up the mauna is an attempt to prevent kia‘i from accessing the mauna. This is unacceptable and extremely concerning.

--I take issue with the framing of the managers of the TMT as land stewards, and especially describing what they’re going to do with the mauna as land stewardship. To me, this feels appropriative of Kanaka Maoli concepts of mālama ʻāina, aloha ʻāina, and land stewardship. You are not actually stewarding the lands, you are occupying them and harming them. You are using our cultural concepts to obscure the damage you’re planning to do to the mauna.

--Expanding the facilities on the mauna is also concerning. You are inviting more and more people to come. Our kūpuna knew that going up the mauna was something that they could do rarely because it is part of the wao akua. The ecosystem is so fragile and it does not support human habitation. Inviting more people to go up will only increase harm on to the mauna.
Konveio General Comment Forms

Submittal Number: 345
Date submitted: 10/27/2021
Name: Samuel Gillie
Organization: Honolulu, HI 0

Comments on Missions, Vision, and Values: Maunakea is truly unique in the World for its Astronomy potential. Hawaii has an obligation to respect that potential as a fellow caretaker of the World’s natural assets. Proper development of that astronomy potential provides unmeasurable benefits to both the World and Hawaii’s citizens. I fully support the development of Maunakea’s astronomy potential based on our current culture values and standards and with due respect for our historical cultures.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 346
Date submitted: 10/27/2021
Name: Isabella badia bellinger
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has no right to take ownership over Mauna Kea. This 'aina should be returned to the Hawaiian people and removed from the university's control. It is clear UH disregards the indigenous peoples’ rights over the mauna and their stewardship knowledge.

The TMT MUST NOT BE BUILT. Not now, not ever. Just because the lahui is not blocking the access road today, doesn't mean they won't tomorrow. It is a fundamental disregard for the Hawaiian people to continue the TMT plans. The strength of the opposition to the telescope cannot be denied when it is the literal movement of people that have blocked its construction for YEARS now. How dare UH say it must still consider other voices and test sentiments, when the strongest sentiment is abundantly clear. A'ole TMT!
Submittal Number:  347
Date submitted:  10/27/2021
Name:  Lyann Lau
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Fully support the TMT! Hope to see this get built. The foundation has provided much needed funding and outreach to education in Hawaii. As someone who was born and raised in Hawaii, it saddens me to see that STEM is not prioritized here.
This is Ryan Lau, I'm an astronomer born and raised in Honolulu, HI and am now an International Top Young Fellow (ITYF) affiliated with the Japan Aerospace Exploration Agency (JAXA) in Japan. As an astronomer who has conducted many observations using the facilities on Mauna Kea, I wanted to express my support of the framework for the revised master plan. I strongly agree with the goals and objectives and wanted to emphasize the positive impact that astronomy on Mauna Kea has on the community, especially with providing direct opportunities for young students to engage and pursue careers in Science, technology, engineering, and mathematics (STEM). I believe that the goals and objectives of the master plan draft also demonstrate the importance for astronomers who use the facilities on Mauna Kea to understand the broader ecological, cultural, and educational significance of the Mauna Kea Lands. I hope that this master plan can serve as the catalyst for all communities to come together and strengthen the unique opportunities granted by Mauna Kea.

Best,

Ryan
Submittal Number: 349
Date submitted: 10/27/2021
Name: Joy Yukumoto
Organization: Kaneohe, Hawai‘i

Comments on Missions, Vision, and Values: Kanaka Maoli have been advocating for the protection of Mauna Kea, for the protection of their own sacred lands, for decades. Kanaka Maoli have organized mass demonstrations all over Hawai‘i, globally, and the occupation of Mauna Kea in order to prevent construction of the Thirty Meter Telescope to protect Mauna Kea. Building yet another telescope, the TMT, would be an act of continuous desecration of stolen Hawaiian land. The movement to protect Mauna Kea has support all over the world, as hundreds of thousands of people oppose building the TMT on Mauna Kea and have made that clear through testimony, petitions, and rallies. Kanaka Maoli have always been highly skilled astronomers without enacting any of the destruction that settler telescopes have. Desecration is not science. Building the TMT would not be contributing to astronomy, but instead desecrating stolen sacred Hawaiian land.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
I strongly oppose any plan that will allow continued efforts to build the 180 foot tall observatory known as the Thirty Meter Telescope (TMT) on Mauna Kea. I am not Kanaka Maoli but I am local (born in Hilo, living in Honolulu) and old (born 1952). Notwithstanding worthy legal and spiritual arguments against TMT specifically and observatories generally on Mauna Kea, there are common-sense reasons against building such that are often overlooked.

I get that the peak of Mauna Kea is a great place to build astronomical observatories. It is the highest point in the entire Pacific and situated in a place under stable subjugation of a major military superpower.

I get why the first observatories were built there. That was more than half a century ago and I remember the era. There were fewer Hawaiians. They were a smaller percentage of the population, and there was far less understanding of Hawaiian history, culture, and language than there is now.

A devastating tidal wave hit the island in ’61 and where Oahu had Waikiki and an economically thriving Honolulu, the island of Hawaii had not so much. Honolulu saw a condo building boom where the island of Hawaii had nothing to drive such a boom. Until the summit of Mauna Kea was recognized as an ideal place to build astronomical observatories. What ensued was Mauna Kea as a boomtown for observatory development. This was done on “public” land and the development, unlike condo development of Oahu, required very little by way of infrastructure.

The current opposition to building on this “public” land comes from the origins of ceded lands that are becoming widely known to the current generation. Without trying to over-emphasize things, these ceded public lands were taken from the Hawaiian Royalty by way of an armed insurrection, then attempted to be ceded to the United States during annexation. This should strike the common sense of the public as offensive, illegal, and in any case completely reprehensible.

Most older people don’t know this part of history because it certainly wasn’t taught to us. Senator Lorraine Inouye famously declared that she didn’t know if there was such a thing as ceded lands. But an increasing number of younger people do know, however.

Public opposition against TMT can only continue to grow as the history of Hawaii becomes clearer. If you want, you have the option of looking back at the “good ole days” of building observatory after observatory on Mauna Kea, but for the world we now live in, you have no real choice but to abandon using Mauna Kea as a boomtown for observatory development.

H. Doug Matsuoka
Hawaii Guerrilla Video Hui
Submittal Number: 351
Date submitted: 10/27/2021
Name: Thomas Chun
Organization:
City, State, Zip: Keaau, Hawaii 0

Comments on Missions, Vision, and Values: The mission, vision & values have been generated. Opportunities to comment were offered. However, only the tech competent voices have been heard.

Comments on Goal and Objectives: Who makes a good steward? Who does the steward serve? Astronomy and physics are the foundation of all western science. In the quest for knowledge and "truth", we often become deaf and blind to other points of view. I don't think "balance" is easily ob

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I have had the privilege to serve on Kahu Ku Mauna Council but left because I felt that its voice had been lost. I was sad to see that the time spent was basically to fulfill recommendations/requirements of a management plan given to the University of Hawaii to address shortcomings. I feel these plans may be destined for similar results. The names and active entities may change, but our world views are what needs to be adjusted.
Comments on Missions, Vision, and Values: While I appreciate the intention of UH to do well by the Native Hawaiian community via a "balanced" and "shared" vision for Maunakea, the fact that the university is steadfastly moving forward with TMT construction on 'Ka Mauna a Wākea' leaves these words hollow. The leadership of UH, as educators and residents of Hawai'i, know full well the disconnect between such repeatedly stated intentions of "deep listening" and the reality of the situation regarding construction of the Thirty Meter Telescope. The Native Hawaiian community has spoken clearly for 12 years on the spiritual, cultural, historical, and ecological importance of the Mauna and their strong opposition to a stadium-sized construction footprint for another telescope at their place of creation. As a Christian minister, I stand with the Native Hawaiian community out of moral and ethical obligation on what is easily understood as the righteous side of this divide between UH / TMT and the Kānaka Maoli. The mess created must be cleaned up. UH will most certainly inherit the mess that is to be if TMT is not constructed to be sure, but they risk a larger and much more painful mess by moving forward. Let us not forget who created the mess in the first place. Cleaning up your side of the aisle is necessary for UH. And it seems to me, the opportunity to move forward in pono, with kuleana, and most importantly with the Native Hawaiian community, is one that UH also has before them. What a tragic opportunity to miss. And what a powerful example of aloha for the world that would be. I will be praying that UH and its leadership decide for the latter.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies: Page 1-8

Strategy 4. Establishment of only those new facilities that “(iii) would greatly benefit from Maunakea’s unique cultural landscape or unique natural resources” is ironic. The unique cultural landscape and unique natural resources would not, by t

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: My time to complete this by October 26 is limited by family obligations on the continent.
Submittal Number: 354
Date submitted: 10/27/2021
Name: Peter Matlock
Organization: Self
City, State, Zip: Keauhou, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Dear UH,
I support your efforts to ensure the TMT is built, and that it is done so with extra attention to environmental care and cultural respect. It is unfortunate we are at a point where building the TMT and respect/support of traditional Hawaiian culture are seen as mutually exclusive. UH is showing the way to building TMT and doing so in a way that supports current and future generations in Hawaii, including opportunities to bring greater resources to expand support for traditional culture. Plus, TMT will show our collective commitment to seeking knowledge and expanding education, to create a better future for Hawaii's children. Conversely, a demise of TMT--and of Astronomy in general--would send a message to the world that Hawaii is anti-science, making it more difficult to develop and attract the talent needed to prepare future generations to thrive. Equipping students to be effective in the current world, while adapting the wisdom of traditional culture to our current lives, can ensure both respect for traditional culture and ability to succeed in the 21st Century. Thank you.
Submittal Number: 355
Date submitted: 10/27/2021
Name: Aya Yagi
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions, opposing the building of the TMT on the summits of Mauna Kea.
Submittal Number: 356
Date submitted: 10/27/2021
Name: Emily Emily
Organization:
City, State, Zip: Saratoga, CA 0

Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have been protesting this project for years, speaking loudly and clearly that they do not want TMT built. You talk about stewardship, but stewardship isn’t yours to have on stolen land. Listen to Hawaiians and respect their rights to self-determination, they are saying no to TMT on Mauna Kea.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 357
Date submitted: 10/27/2021
Name: Mahina Martinson
Organization:
City, State, Zip: Lompoc, CA 0

Comments on Missions, Vision, and Values: Mauna a Wākea is the most sacred mountain in Native Hawaiian epistemology: a site of tremendous power, a source of healing, prayer, and clarity. It embodies the zenith of kānaka maoli’s ancestral ties to creation, a link between the past, present, and future. Despite this fact, our community has historically and continually not been consulted thoroughly and sincerely within development on the mountain. It is not enough to “appreciate” our voices, we have to be listened to. The voices of the kānaka maoli are clear: we oppose the building of the TMT on Mauna a Wakea. Through demonstrations, through petitions, through activism and advocacy for the past 12 years and beyond we have fought the TMT's desecration of our land. Yet our voices are still ignored, brought into "consultation" but not listened to. The decades of mismanagement that UH has demonstrated is evidence that your stewardship is inadequate, and that Mauna Kea needs to be handed back to its true stewards: the kānaka maoli.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 358
Date submitted: 10/27/2021
Name: Ashley Galacgac
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: The University of Hawai‘i is a public serving institution with the responsibility to steward this sacred ʻāina. Native Hawaiians do not consent to the building of TMT on Mauna Kea. To uphold the responsibility UH and all living here in Hawai‘i has, we must end the desecration of Mauna Kea.
Stewardship should be led by those families who have genealogical ties to Maunakea who have been there for generations. Many educators, cultural practitioners, kūpuna, and community have demonstrated the learning, healing, and thriving that can happen as protectors stood with Kapu Aloha to stop TMT. Maunakea may continue to be a place of healing and TMT is not part of that vision.
Submittal Number: 359
Date submitted: 10/27/2021
Name: Raymond Keaulana
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I stand against all development on the most sacred place, Mauna a Wākea. I oppose the TMT now and forever.
Submittal Number: 360
Date submitted: 10/27/2021
Name: David Rubin
Organization: UH Mānoa
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: In the past couple of decades, the UH admin has done a good job of management and I support their future efforts.
Submittal Number: 361
Date submitted: 10/27/2021
Name: Wainani Paikai
Organization: State Farm Insurance
City, State, Zip: Brooklyn, NY 0

Comments on Missions, Vision, and Values: For decades, Kanaka Maoli have been advocating for rightful stewarding of the land including the protection of Mauna Kea. Over the past 12 years, the indigenous people of Hawai‘i have been recognized internationally through mass demonstrations locally and internationally in opposition to building the Thirty Meter Telescope (TMT) on Mauna Kea. Thousands have occupied Mauna Kea and marched to stop the desecration planned for our Mauna.

Comments on Goal and Objectives:

Comments on Strategies: Using TMT to diversify the economy is using another settler based tactic that will inevitably benefit and perpetuate a system of oppression and colonization.

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 362
Date submitted: 10/27/2021
Name: Robert Whiteley
Organization: Asgard Research
City, State, Zip: Denver, CO 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Hi, my name is Dr. Rob Whiteley. I am a former Institute for Astronomy graduate student (PhD in 2000), and I spent many years in the world of academic astronomy. I’ve done observational work at most of the big observatories in both Hawaii and Arizona, and specialized in asteroid and comet detection and characterization. Without hesitation I can say that the work I did at the facilities on Mauna Kea was the best work of my career; the conditions on Mauna Kea were one of the reasons why. I won't belabor the point that I'm sure many other people are making in this forum. I will simply say that no observatory in the world compares to Mauna Kea, whether Cerro Paranal, La Palma, Mt. Graham, Kitt Peak or any other place you can think of.

Mauna Kea's value as an astronomical site has placed it at the forefront of discovery for decades. It would be impossible for me list all of the firsts, important discoveries, and eye-opening reveals enabled by research done on its summit. Mauna Kea is where the first Kuiper Belt Objects were discovered. Much of the early work characterizing Earth-threatening asteroids was done on Mauna Kea as well. Modern infrared astronomy was born on Mauna Kea, as well as the technology that supported it. Ground-breaking work on adaptive optics, very large aperture telescopes, and submillimeter telescopes was done at MKO. For every advancement in astronomy or astronomical technology made in the last 40 years, there is probably a Mauna Kea connection.

Over time those connections have built not just a vibrant scientific enterprise but vibrant academic and business enterprises. Astronomy brings billions of dollars to the economy of the State of Hawaii today, whether in the form of operations budgets, research and development, or Federal or Foreign government grant money. Astronomy is one of the "crown jewels" of the University of Hawaii system, and much of the growth of the UH system on Maui and the Big Island has been driven by astronomy. Because of astronomy, Hawaii also has a thriving entrepreneurial ecosystem in related fields such as remote sensing, scientific computing, and optical engineering. Thousands of high-tech, green jobs in Hawaii are directly supported or enabled by Astronomy, and by the development and use of the facilities on Mauna Kea and Haleakala.

I've not always been a fan of how the leadership of the University of Hawaii has handled the Mauna Kea question. I could also level some critiques at the State of Hawaii, particularly during the time I was a graduate student, for being tone deaf on many of the issues. But what I've seen in the last 20 years has convinced me that people have learned to listen, and have built a much better dialogue on how Mauna Kea should be managed. Today my current worry is that some very public, very misguided activism on this subject could lead to the end of astronomy on Mauna Kea. That would be an epic mistake, and a tragic failure of leadership among multiple groups.

I fully support the responsible use of, and where appropriate, the expansion of astronomical capabilities on Mauna Kea. I believe that the various interested parties should not focus so much on an arbitrary number of allowed facilities. Instead, people should consider the benefits and impacts of various projects, and ask how those projects contribute to the goals outlined in the Draft Master Plan documents. Stewardship need not be at odds with astronomy; research, education, and public outreach are not mutually exclusive. All it requires is that the interested parties be sincerely interested in listening, and applying some imagination to these problems.
Submittal Number: 363
Date submitted: 10/27/2021
Name: Raquel Raquel
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: I am opposed to the building of TMT on Mauna Kea. We need to preserve sacred spaces and listen to native voices. I do not consent to any more destruction.
Submittal Number: 364
Date submitted: 10/27/2021
Name: Carmelo Carmelo
Organization:
City, State, Zip: Bellingham, WA 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 365
Date submitted: 10/27/2021
Name: Michael Ikeda
Organization: Captain Cook, Hi 0
City, State, Zip: Captain Cook, Hi 0

Comments on Missions, Vision, and Values: The University of Hawaii mission, vision and values continue to contribute to the genocide of the Hawaiian people by destroying and alienating them from critical spiritual source. It is so obvious by the language you use, management. It clearly shows that you have no concern or understanding of the foundation of Hawaiian exist, kinship. Kinship with their natural world, their universe. There is clearly a conflict or lack of understanding of their relational values. Malama should be used in place of management. Management puts the hierarchy of elders askew. Management is about man, Malama is mans attempt to try and do the Pono thing to live in balance knowing the source doesn’t need man to thrive. In fact it would be better off without man and his irresponsibility and greed.

I just lost my 15 year old granddaughter because she felt she didn’t belong. He death will not fade into the darkness, unheard. She has been one of the many protectors of Mauna Kea. Enduring the stress and hardships to protect and stop the further destruction of their critical spiritual source. What you are doing and further proposing contributes to their generational trauma that make Hawaiians feel that “ they don’t belong. “ They don’t belong in their own homelands. Is that your Mission, your Vision, and your Values? Your whole purpose is to look into outer space, I think you need to look into your inner space. The discoveries you make there would better serve you, your families and mankind. Education is so hell bent on promoting STEM, but fail to develop a strong healthy root. Look at our Honua, she is jerking us to the ground and saying, “wake up. “ You technology and so called intelligence is killing everyone and I mean everyone from a Hawaiian prospective.

When my granddaughter wrote she didn’t feel she belonged, I know it is because of the generational trauma caused by Missions, Visions, and Values like yours. Genocide continues and will continue until people and institutions like yourselves begin investing in inner space exploration. Stop the insanity!

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 366
Date submitted: 10/27/2021
Name: Keri & Kekai Perry
Organization: UH Manoa
City, State, Zip: , 0

Comments on Missions, Vision, and Values: The mission is absent significant representation of kia‘i and members of the community who have vehemently opposed the UH’s continued management of the mauna and the building of the TMT. We object to the arrogance that is represented in this section and the unabashed settler-colonial support for institutional forms of domination that is part of the white supremacist ideology hidden in cultural tokenism and unethical scientific approaches to the mauna.

Comments on Goal and Objectives: The University has completely ignored the questions: what authority does the University have to plan for the use of Mauna Kea when the lease for the mauna is due to expire? And, What right does the university believe it has to assume control and management?

Comments on Strategies: The strategies ignore the core understanding of the mauna and core cultural integrity outlined by the kia‘i. In short, the strategies are a biased, prejudicial and discriminatory set of actions that promote a manifest destiny approach laden with institutional forms of domination.

Comments on Halepōhaku facilities: No authority or consent was given here. The approach is in direct conflict with the issues raised since the 1960s. Any attempt to promote some minuscule form of "preservation and protection" that ignores the full breadth of the mauna and its collective importance and value to kanaka maoli is a disgusting self-promoting use of false narratives to engender divisions in the community and undermines the cultural and political survival of the kanaka maoli people.

Comments on management and stewardship facilities in the MKSR: Mauna-a-Wakea has been severely mismanaged since the early 1960s. In the most recent iteration of the university's management planning, no real changes to the construction or the care for the cultural integrity of the whole mauna has been meaningfully done.

Comments on education, research, and astronomy facilities in the MKSR: The claims of research are fraudulent. Nothing speaks directly to the ability of the kanaka maoli to have a direct role and decision making power in the kind of research or power and focus of the research. Instead, like the other sections, kanaka maoli are passed over.

Comments on access management facilities: X

Comments on proposal review process: The process is improper and does not provide adequate time for the community to respond. There is a serious lack of due process in this process and the community will suffer for this failure to adequately connect with the community. The reality of the process

Comments on design guidelines:

General/Other comments: Overall, this plan is incomplete and misleading. The issues concerning the TMT are inaccurate and should be stricken. The sections relating to Hawaiian values and culture are tokenized version of a settler-colonial ideology that do not properly represent the concerns of the kanaka maoli community.
Comments on management and stewardship facilities in the MKSR: The University of Hawai‘i has a long history of mismanagement of Mauna Kea and disrespect towards Native Hawaiian people and land. There have been almost 500,000 signatures against the building of the TMT, and countless testimonies against the abuse of Ma
Submittal Number: 368
Date submitted: 10/27/2021
Name: Laakea Rabes
Organization: 

City, State, Zip: ,

Comments on Missions, Vision, and Values: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina or relationship between ‘Āina and Kānaka by utilizing important traditional concepts and knowledge such as the Kumulipo then proceeding to identify Maunakea as a resource and commodity ripe for economic gain. The plan is a lengthy contradiction. It is a backhanded attempt to convince those opposed to the construction of the TMT that you care for them or Maunakea. Additionally, the idea that technology is monumentally instrumental in scientific exploration is ironically based on a narrow world view. Native Hawaiians have long been able to gain deep understanding for the world around us along with all its cosmic phenomena. If you need proof look no further than the Kumulipo that the plan was so eager to refer to. In closing, this comment is meant to show dissatisfaction with the continued attempts to build upon Maunakea and maintain the image of a competent steward. TMT should not be built and Maunakea's management and stewardship should be turned over to the indigenous people of Hawai‘i.

Comments on Goal and Objectives: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on education, research, and astronomy facilities in the MKSR: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  369  
Date submitted:  10/27/2021  
Name:  ANTHONY LENCHANKO  
Organization:  POHAKEA KAI LLC  
City, State, Zip:  WAIANAE, HAWAII  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments:  Opposed to new astronomical facility (i.e.TMT) at Astronomy site 13.  
Balanced goals should reconsider "unfair compensation" strategies previously applied to native Hawaiians (i.e. State of Hawaii Constitution).
10 INPUT RECEIVED VIA U.S. MAIL

Submissions were received from the following and are reproduced below:

- State of Hawai‘i Department of Health (HDOH), Solid and Hazardous Waste Branch
- HDOH, Indoor and Radiological Health Branch
- County of Hawai‘i Police Department
- National Science Foundation
- Cheryl Burghardt and Dee Green
- Water Protector Legal Collective
- Anonymous
- Laulani Teale, Ho‘opae Pono Peace Project
- Liko-o-kalani Martin
- Penny Levin
Solid and Hazardous Waste Branch Standard Comments

Solid and Hazardous Waste Branch Standard Comments
November 26, 2018

The Solid and Hazardous Waste Branch administers programs in the areas of:
1) Management of hazardous waste;
2) Management of solid waste; and
3) Regulation of underground storage tanks.

Our general comments on projects are below. For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226. All chapters of the Hawaii Revised Statutes (HRS) are at https://www.capitol.hawaii.gov/hrscurrent.

Hazardous Waste Program

• The state regulations for hazardous waste and used oil are in chapters 11-260.1 to 11-279.1, Hawaii Administrative Rules (HAR) [http://health.hawaii.gov/shwb/hwrules/]. These rules apply to the identification, handling, transportation, storage and disposal of regulated hazardous waste and used oil. Generators, transporters and treatment, storage, and disposal facilities of hazardous waste and used oil must adhere to these requirements. Violations are subject to penalties under chapter 342J. HRS.

Solid Waste Section

• The Solid Waste Section (SWS) enforces laws and regulations contained in chapters 342H and 342I, HRS, and chapter 11-58.1, HAR, "Solid Waste Management Control" [http://health.hawaii.gov/shwb/solid-waste/].

• The purpose of the rules is to establish minimum standards governing the design, construction, installation, operation, and maintenance of solid waste disposal, recycling, reclamation and transfer systems.

• All facilities that accept solid wastes are required to obtain a solid waste management permit from the SWS. Examples of the types of facilities governed by these regulations include landfills, transfer stations and convenience centers, recycling facilities, composting facilities, and salvage facilities. Medical waste, infectious waste, and foreign waste treatment facilities are also included.

• Generators of solid waste are required to ensure that their wastes are properly delivered to permitted solid waste management facilities. Managers of construction and demolition projects should require their waste contractors to submit disposal receipts and invoices to ensure proper disposal of wastes.

For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
Solid and Hazardous Waste Branch Standard Comments

- Chapter 342G, HRS, encourages the reduction of waste generation, reuse of discarded materials, and the recycling of solid waste. The project developer is highly encouraged to develop a solid waste management plan to ensure proper handling of wastes and divert recyclables from being landfilled. Ideally, the plan would seek to maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

Office of Solid Waste Management

- The Office of Solid Waste Management (OSWM) administers statewide integrated solid waste management planning activities, which apply to the counties, as well as various recycling programs, e.g. the Glass Advance Disposal Fee (ADF) and Deposit Beverage Container (DBC) Programs. Management of the DBC Program is conducted pursuant to chapter 342G, HRS, which contains compliance and enforcement provisions, and chapter 11-232, HAR, "Deposit Beverage Recycling" [http://health.hawaii.gov/his/rules-regulations-additional-links/]. OSWM is also responsible for limited enforcement and compliance of solid waste management facilities that operate primarily as certified DBC redemption centers pursuant to chapter 342H, HRS, and chapter 11-58.1, HAR, "Solid Waste Management Control" [http://health.hawaii.gov/shwb/solid-waste/]. Authority for the integrated solid waste management planning and ADF programs is contained in chapter 342G, HRS.

- Glass Advance Disposal Fee Program: Businesses that import glass containers into Hawaii are required to register with the Department of Health and pay a 1.5 cent per container fee. Fee revenue is distributed to the counties for the operation of glass recycling programs.

- Deposit Beverage Container Program: Businesses that manufacture or import deposit beverage containers into Hawaii are required to register with the Department of Health and pay the five-cent deposit and one cent container fee on each deposit container. Deposit fees are deposited into a special fund and are used to reimburse DBC redemption center refunds paid to consumers; and to pay handling fees to redemption/recycling companies to process and recycle collected deposit beverage containers; and to pay program administrative costs.

- The Department of Health reimburses and pays an associated handling fee for the redemption of deposit beverage containers (DBC). These transactions are conducted only with certified redemption centers. Certification requires obtaining a solid waste management permit from the SWS (which addresses environmental issues) and a certification from the DBC program (which standardizes the redemption process).

- Chapter 342G, HRS, encourages the reduction of waste generation, reuse of discarded materials, and the recycling of solid waste. Businesses, property managers and developers, and government entities are highly encouraged to develop solid waste management plans to ensure proper handling of wastes and divert recyclables from being landfilled. The project developer is highly encouraged to develop a solid waste management plan to ensure proper handling of wastes and divert recyclables from being landfilled. Ideally, the plan would seek to

For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
Solid and Hazardous Waste Branch Standard Comments

maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

- Solid waste management plans seek to maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

Underground Storage Tank Program

- The state’s underground storage tank (UST) regulations, found in chapter 11-280.1, HAR [http://health.hawaii.gov/shwb/underground-storage-tanks/], include specific requirements that UST owners and operators must meet when installing, operating, and permanently closing their UST systems and addressing releases from USTs. Violations are subject to penalties under chapter 11-280.1, HAR, and chapter 342L, HRS.

- A permit is required prior to the installation and operation of a UST. Any new UST system that will be installed must have secondary containment with interstitial monitoring. Refer to subchapters 2, 3, 4, and 12 of chapter 11-280.1, HAR. The installation permit expires 1 year from the date of issuance. The operation permit expires 5 years from the date of issuance.

- §11-280.1-50, HAR, requires owners and operators of USTs or tank systems to notify DOH within twenty-four (24) hours and follow the procedures in §11-280.1-52, HAR, if any of the following occur, with specific exceptions found in the rules:
  1) The discovery by any person of evidence of regulated substances which may have been released at the UST site or in the surrounding area (such as the presence of free product or vapors in soils, basements, sewer and utility lines, or nearby surface water);
  2) Unusual UST system operating conditions observed or experienced (such as the erratic behavior of product dispensing equipment, the sudden loss of product from the UST, or an unexplained presence of water in the tank); or
  3) Monitoring results from a release detection method required under §§11-280.1-41 or 11-280.1-42 indicate a release may have occurred.


For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
September 23, 2021

Gregory C. Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
Government Relations Office
Administrative Services Building, I
2442 Campus Road
Honolulu, HI 96822

Dear Dr. Chun:

Thank you for your submittal requesting comments to the Public Draft Master Plan for the University of Hawaii Maunakea Lands: P.O.I Kaleo.

Project activities shall comply with the following Administrative Rules of the Department of Health:

- Chapter 11-39 Air Conditioning & Ventilating
- Chapter 11-41 Lead-based Paint Activities
- Chapter 11-45 Radiation Control
- Chapter 11-46 Community Noise Control
- Chapter 11-501 Asbestos Requirements
- Chapter 11-504 Asbestos Abatement Certification Program

Should you have any questions, please contact me at (808) 586-4700.

Sincerely,

Thomas G. Ili'elikis
Acting Program Manager
Indoor and Radiological Health Branch
October 8, 2021

Mr. Gregory Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
University of Hawaii, Government Relations Office
Administrative Services Building 1, Room 101
2442 Campus Road
Honolulu, Hawaii 96822

Dear Mr. Chun:

Thank you for allowing us to review and provide comments on the public draft of the Master Plan for the University of Hawai‘i Maunakea Lands: E O I Ka Leo.

Your collaborative effort in seeking community input, to include consideration on public safety, is much appreciated. Upon review of the posted documents, our staff does not anticipate any significant impact to traffic and/or public safety concerns at this time.

Should you have any questions, feel free to please contact Captain Regino Saludares of our Administrative Services Division at (808) 961-2265 or Regino.Saludares@hawaii.gov.

Sincerely,

Kenneth Bugada Jr.
for
PAUL K. FERREIRA
POLICE CHIEF

21HQ0934
October 25, 2021

National Science Foundation Comment on University of Hawai‘i Draft Master Plan

The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.
4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,

Linnea M. Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
October 19, 2021

IN RESPONSE TO THE UH MASTER PLAN FOR MAUNAKEA.

We are **OPPOSED** to the Draft Maunakea UH Master Plan in its entirety.

It’s interesting that you chose the words E Ō I KA LEO (LISTEN TO THE VOICE) as your title. It is not a very suitable title since through the years no actual “listening” has been done by the University of Hawai‘i about protecting Mauna Kea as the most sacred site in Hawai‘i.

In your Forward, you link Mauna Kea as the origin to early Hawaiians as the first-born island to modern astronomy and a window to the origins of the universe. These two ideals could not be more different. The “only” spot or portal on earth where an individual can stand and connect to their ancestors or receive ancestral knowledge is entirely separate from a manmade device that could be absolutely anywhere including outside the earth’s atmosphere to “view” the universe. Thus, the entire premise of your title and ultimately your perspective are quite skewed.

You write of “astronomy on Mauna Kea as an important element of the island’s future economic and educational base”. However, expenses linked to mismanagement, lack of oversight, and poor decisions have caused UH and ultimately the State of Hawai‘i to spend millions of taxpayer dollars to fight lawsuits, direct funds unnecessarily to pay for future decommissioning of telescopes, etc., etc. Education (and particularly early education) suffers the greatest loss of funding when States have these unnecessary expenses. This of course is also a catalyst for poor fiscal responsibility. It is not only short-sighted but dangerous to believe that astronomy on Mauna Kea is a necessary means to economic stability in Hawai‘i.

Mauna Kea is indeed a “unique source of learning”. The natural and unique ecosystems including rare and endangered species is the ultimate learning opportunity. UH has unfortunately not protected these areas and has aided in the population decline and the potential future demise of the Palila (although UH has tried to transfer the blame on feral animals). The facilities at Halepōhaku on Mauna Kea where the Palila once thrived have caused irreparable harm. While any disturbances and developments at Halepōhaku or the Mid-Level facility areas should be avoided to protect the federally designated critical habitat, UH continues to expect to build and develop these areas. Most recently, a new parking area was made where Māmāne trees should have been planted instead. And UH also has the intent of putting a teaching telescope there. This once again has proven UH to not be a good steward of the land nor protector of nature, endangered species and sensitive ecosystems.

Under “UH’S VISION FOR MAUNAKEA” it states, UH recognizes that it must protect the area’s various values including “culturally significant landscape and a recognized historic district with many contributing historic properties” and “rare subalpine and alpine ecosystems”. However,
cumulative impacts upon Mauna Kea’s cultural, archaeological, historic, and natural resources have been substantial, significant and adverse under UH’s management and have been well documented as such. So, why would anyone believe this statement? UH continues to send out a smoke screen filled with deception. Including the “CORE VALUES ASSOCIATED WITH MAUNAKEA” all of which have not been followed to date.

1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS
UH:

1. **Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;**

The TMT project proposes to be built in an undeveloped area amongst the hundreds of the documented and undocumented ahu (shrines) and cultural sites. Kukahau’ula as one example, was determined a historic (district) by SHPD owing its association with legendary figures and ongoing Native Hawaiian cultural practices, however, 1100 feet of the 3400 ft long Access Way that would serve the proposed TMT would cross Kukahau’ula. In addition to hundreds of find spots and shrines in the summit region, it has been referred to by archaeologists with DLNR-SHPD as a “ritual landscape” that UH has shown no care in wanting to protect.

2. **Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems;**

Time and time again individuals have noted their concerns about the many pollutants such as mercury and other waste products that come with the use and maintenance of the telescopes on Mauna Kea. The fact that adequate studies have not been done on the impacts of those pollutants on the groundwater and native flora and fauna is of great concern and has never been addressed by UH.

3. **Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and**

These areas should be the main focus. Those activities which do not desecrate sacred lands.

4. **Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.**

Like many things UH does, the wording here is a smoke screen and not well defined.

As for the objectives:

- **Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable.**

Once again, UH has not been a good steward of the lands of Mauna Kea themselves. Therefore, it remains questionable whether they can accomplish this objective since their standard of measuring “adverse effects” is questionable.
• Protect, maintain, and restore the cultural landscape and natural resources by implementing the CMP management actions.

The OMKM has failed to properly consult with Native Hawaiian cultural practitioners to develop and implement CMP Cultural Resources policies.

• Affirm and protect Maunakea as a wahi pana and wao akua.

Dr. Kahakalau articulated in the TMT contested case that “the entire mountain, as a first born, has a unique, special status for culturally-connected Hawaiians and exudes mana, Mauna Kea’s summit, based on what I was taught, as the highest peak not just in Hawai’i but the entire Pacific, is also clearly a Wao Akua. A Wao Akua, versus a Wao Kanaka, is reserved for deities and spirits and should only be accessed for specific, always and only spiritual practices, involving special protocols.

It is clear that UH has not protected nor affirmed Mauna Kea as a Wao Akua. Once again, they are using words that are not associated with their actions thus far.

• Provide educational and other programs to ensure public activities are conducted in a manner that respects Native Hawaiian practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.

UH is using words to disguise their intentions. Notice that “private activities” nor “corporate activities” are listed here. So one can make the assumption that they only want to “do what’s right” if the “public” is involved. Who is holding the telescope partners, potential construction companies, tour operators etc., accountable?

• Build relationships between the mauna, its special caretakers, and the broader community.

Clearly UH has failed here in the past, and there’s no comprehensive plan listed as to what that will entail or look like as an effort from UH.

• Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.

This appears to be just another “unclear” statement that UH wishes to remain vague so they can interpret and change “at will”.

1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY

The best astronomical viewing conditions are obviously high altitude, low temperature, continuous darkness, and a stable atmosphere free of dust and moisture. These conditions are obviously more perfect in outer space than they are on earth. UH can certainly maintain its status as a world leader in astronomy by supporting non-land based telescopes and a world class teaching and observational facility that is “not” on the top of Mauna Kea.
This would also allow UH to be a true leader in the world. One who puts native people and land, endangered species and native flora and fauna, above all else. A genuine leader in the ultimate land conservation effort for future generations. Putting people before profit, preserving habitat for wildlife, maintaining native ecosystems and acknowledging, truly acknowledging Mauna Kea’s natural and cultural resources as well as Native Hawaiian traditional and customary practices and rights for all time by not allowing any more telescopes atop the mountain. This would be the most responsible stewardship of Mauna Kea for present and future generations.

UH will continue supporting the vision of a knowledge-based economy Hawai’i’s economic future should not depend on a knowledge based economy. Economic success cannot be guaranteed by jumping on the bandwagon of technology or scientific ideology. Monsanto has been a perfect example in Hawai’i of why that can be a dangerous road to follow. Ensuring that inequality does not increase into the future is a very important element and measurement of economic success.

1.4.3 DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES
While the concept of UH working to strengthen its support of research and educational programs in indigenous, natural, and social sciences is a positive pursuit, it should be combined with an effort of sustainability. UH should strive to meet the needs of students without compromising land, ecosystems, traditional and customary practices and rights, social and educational equity, and the ability of future generations to know the natural and scenic beauty of Mauna Kea.

1.4.4 SEEK BALANCE AND MUTUALLY BENEFICIAL RELATIONSHIPS AMONG MAUNAKEA’S STAKEHOLDERS
While UH constantly professes to seek a mutually respectful and beneficial relationship with Mauna Kea “stakeholders”, its actions show otherwise. UH’s ineffective management and the unlawful actions of its own employees and individuals under their jurisdiction have continuously resulted in adverse impacts upon Mauna Kea’s natural and cultural resources. Native Hawaiian traditional and customary practices and rights have also been negatively impacted. They consistently fail to properly consult with Native Hawaiian cultural practitioners and have allowed desecration and dismantling of cultural sites on Mauna Kea. This has shown their lack of concern for the health and safety, proper stewardship, and preservation of resources. Actions matter more than words here.

1.5 STRATEGIES
10. Facilitate the development of a new astronomical facility on Astronomy Site 13
Site 13 is a roughly 5-acre area at the end of a four-wheel drive road at an elevation of 13,150 feet on the Northern Plateau of Mauna Kea where there are no current developments.

According to Kealoha Pisciotta’s Written Direct Testimony in the contested case, the viewplane is in “direct line of sight of Maui and the NW plane which is used for ke ala ao (solstice and
equinox) ceremonies. There are also lines that represent the relationship between Mauna Kea and Poli‘ahu Heiau on Kaua‘i, Ahu a Umi Heiau situated between the three great mountains (Hualalai, Mauna Loa and Mauna Kea) on Hawai‘i Island, the Pu‘u Kohola Heiau in Kawaihao, Hawai‘i Island, and Motu Manamana (Necker Island) of the Northwestern Hawaiian Islands which marks the great turn around of the sun during the ke ala polohiwa time. The shrines on this tiny island are related to this relationship too."

Hāwane Rios also testified she has received ancestral knowledge through mediumship in areas on the Northern Plateau. Ms. Rios explained the significance of shrines along the Northern Plateau, their connection to one another, their alignment with the constellations and tides at certain times of the year, and that they are portals which connect to celestial bodies of the universe. In particular, the Northern Plateau is a place of learning, a celestial realm in the cosmos that is also connected to voyaging. She describes the Northern Plateau as "a very sacred space of higher learning, spiritual learning, higher consciousness."

These are just a few reasons why development on site 13 should not be a consideration if UH truly and deeply cares for Native Hawaiians and their spiritual, traditional and customary cultural practices.

- While UH states that, "Land is not a commodity but rather an esteemed elder in the Hawaiian family system", they continue to draft plans that include desecration of Mauna Kea’s summit, the sacred piko by which Native Hawaiian connections to their ancestors and their collective knowledge are made known to them.

- *It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place.* However, all of the practices intrinsic to the Native Hawaiian culture and religion including the construction of shrines and leaving of offerings, scattering of cremation remains, umbilical cord deposition, pilgrimage, calendric rites, burial blessings and prayers would not be available on any area occupied by TMT or any other telescope.

- *UH believes that...if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy..... grounded in science and technology....* This is a faulty presumption. As the COVID pandemic has taught us, ensuring a healthy environment, sustainability and a collective effort to provide a decent standard of living to all people is of upmost importance. Ensuring that the economy is not concentrated in an area for advancement of just a few is essential in Hawai‘i.

- You can say that you’d like to “involve community in decision-making process early and often”, but it is clear to the community that you are not listening when they say there should be no further desecration or building on the summit of Mauna Kea.

- Seeking “diverse community representation on the CMS’ volunteer advisory groups” sounds as though you are trying to eliminate the Native Hawaiian community or
marginalize their opinions and concerns about the threats to Mauna Kea. UH has failed in their stewardship of sacred Mauna Kea time and time again. It's time for UH to be held accountable. You should not look for individuals with ideas similar to your own in order to gain support through what you call “diverse representation”.

- It is already too late to “strive to address shortcomings to build stakeholder confidence and trust.” UH lost that long ago. Now it's time to step aside and let the community come together to truly protect Mauna Kea for future generations.
- Once again UH talks about “new facilities” being “consistent with Master Plan foundations and other criteria” instead of considering the damage those facilities will do before and during construction. UH has never been a good steward of the land and these goals are further proof that UH continues to move in the wrong direction.
- Implementing a “Comprehensive Management Plan to protect and conserve Maunakea” is something UH has never been able to do. For over five decades UH has failed to follow the appropriate procedures for adopting and implementing administrative rules for those lands and resources. And also during those years, staff and personnel of the OMKM have failed to follow existing rules and protocols as outlined the CMP.
- While UH states they would like to “manage access in an adaptive manner that protects and conserves resources”, in reality, UH’s ineffective management and unlawful actions of its own employees and others under their authority have resulted in adverse impacts upon Mauna Kea’s natural and cultural resources as well as Native Hawaiian traditional and customary practices and rights.
- UH has already proven they are not capable of working with the Native Hawaiian community to reduce negative impacts on Mauna Kea. Personnel directly under the supervision or oversight of the OMKM Director have desecrated and dismantled cultural sites, desecrated and bulldozed a cultural site along the access road leading to the summit of Mauna Kea. In addition, UH continues to list the future adverse impacts they will carry out on Mauna Kea’s natural and cultural resources in this Draft Master Plan.
- Decommissioning astronomy facilities to ensure fewer are operating by end of 2033 is something UH has been tasked with for years but has never accomplished. Once again you are listing UH failures as a future plan again and again.
- There are no “new agreements with observatories that include community benefits”. UH would like to have people believe that the observatories are “for them” and that the community somehow benefits from the desecration of Mauna Kea. The ridiculousness of UH’s belief is quite overwhelming.
- UH continues to believe that development of Site 13 is in everyone’s best interest. But time and time again Native Hawaiians must remind you of the sacredness of the summit and the northern plateau. There should be no new facilities on site 13, a pristine and undeveloped area on the summit.

“Mauna Kea, the highest mountain peak in the Hawaiian Islands, is of profound importance in Hawaiian culture. The summit region is sacred to Native Hawaiians, and because of its spiritual qualities, traditional and customary cultural practices are exercised throughout the summit area.” This statement regarding Mauna Kea’s cultural

- Repurposing Halepōhaku as a Multi-Disciplinary Field Station would mean construction in a critical habitat for the endangered Palia. No amount of “mitigation measures” could ensure their survival. Halepōhaku is an area where the Palia once thrived. UH has already caused irreparable harm to them by building in this area in the past. Any plans for this area should be stopped.

**HALEPŌHAKU (FACILITIES)**

UH continues to disregard endangered species including the Palila in its decision making and Master Plan. They are merely mentioned as a matter of fact. Grading and paving areas, reconstructing areas, building new facilities or adding to existing ones all have a significant effect. Dust and noise etc. in this area during construction will have a tremendous environmental impact. Mitigation measures alone will not suffice. A potential multi-year project will mean a number of nesting seasons for the Palila. Once gone, they may never return. Or, they may be lost forever. There is no guarantee either way. The risk is much too great for an endangered species and its potentially minimal survival rate.

It is stated that, “The DLNR, which is leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.” However, we already know that disturbances and developments have occurred recently including a new parking area. It is clear the UH doesn’t follow any recommendations for ensuring these areas of critical habitat remain undisturbed. Archaeological surveys should also be done in this area. UH often rushes to get things done before adequate surveys to confirm there are no historical or cultural properties, altars or remains there.

**MAUNA KEA SCIENCE RESERVE**

All potential plans for the Mauna Kea Science Reserve should be put on hold. UH’s actions over the past five decades have already resulted in substantial, significant, and adverse impacts on Mauna Kea’s summit region. We must conserve the ecological and culturally irreplaceable ecosystems on the summit and preserve this historic district for future generations of Native Hawaiians to continue their customary and traditional practices.

Mauna Kea’s summit region is sacred. Native Hawaiian traditions state that ancestral akua reside there. E. Kalani Flores stated the following in his Written Direct Testimony in the TMT contested case: “Embedded within these ahu and stones is ‘ike kupuna and ancestral knowledge along with ancestral guardians. As such, construction (of the TMT observatory) in this vicinity would sever our past, present, and future generational connections with the ‘ike kupuna and ancestral knowledge implanted at these sites. With the understanding that many of these sites serve as depositories of ancient wisdom as well as multi-dimensional portals, the massive extent of destruction proposed in this culturally sensitive landscape would also adversely impact our Native Hawaiian customary and traditional practices that are still connected to these sites.”
It is for these reasons and more that we oppose the Draft Maunakea UH Master Plan in its entirety. UH should be “listening” to those who may oppose any further development on Mauna Kea. UH has done enough damage.

Cheryl Burghardt
Dee Green
October 26, 2021

Via U.S. Mail & Online
University of Hawai‘i
Government Relations Office
Administrative Services Building 1, Room 101
2442 Campus Road
Honolulu, HI 96822

Re: Public Comment on UH Draft Master Plan, E Ō I Ka Leo (Listen to the Voice)

The Water Protector Legal Collective ("WPLC") is an Indigenous-led legal non-profit organization dedicated to providing legal support and advocacy for Indigenous peoples and Original Nations, the Earth, and climate justice movements. The WPLC submits this comment to the University of Hawaii ("UH") regarding the UH Draft Master Plan, E Ō I Ka Leo (Listen to the Voice) for land use management on Mauna Kea.

As the UH Draft Master plan acknowledges, in addition to its cultural landscape and unique ecosystems, as well as topographic and atmospheric qualities, Mauna Kea is a sacred place that is essential to Kānaka Maoli (Native Hawaiian) culture, spirituality, and ancestral knowledge. The Draft Master plan states that the UH “recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research, should reinforce, rather than conflict with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.”

While this renewed vision is a step in the right direction, along with a stated commitment in the Draft Master plan to decommission astronomy facilities on the mauna to no more than nine (9) total, the UH must go beyond words and diplomacy and recognize that if it to truly “E Ō I Ka Leo” (Listen to the Voice) as the name of the plan suggests, it must recognize that its
stewardship of Mauna Kea requires UH to understand that any further development, particularly in the form of building a Thirty Meter Telescope (“TMT”) on the summit (“Astronomy Site 13”) would constitute irreparable desecration to a sacred site.

WPLC urges the UH to protect Mauna Kea. Specifically, WPLC notes and recommends the following:

1) The UH must unequivocally cease any further development of TMT.

Strategy 10 indicates it would facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three (3) existing astronomy facilities. While the plan recognizes there is some uncertainty regarding TMT, permitted for Site 13, the uncertainty comes from potential federal review of the project by the U.S. National Science Foundation, not from a willingness to change its plans for development.

2) The UH Draft Plan fails to present special or concrete measures on how it will include the voices of Kānaka Maoli, and is silent on ways it will provide access to the site and says nothing of the free, prior informed consent necessary from Kānaka Maoli as original peoples of Hawai‘i.

The Draft plan states: “From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” This is a start, but must consider actively how it will achieve this beyond the creation of committees and public fora, as well as understanding that consultation does not amount to consent.

The UN Declaration on the Rights of Indigenous Peoples (“UNDRIP”), adopted by the United Nations General Assembly in 2007 and recognized by the U.S. State Department as having both moral and political force, recognizes, among other things, that Free, Prior and Informed Consent (“FPIC”) is a pre-requisite for any activity that affects Indigenous ancestral lands, territories, or natural resources—not just mere consultation.

FPIC “recognizes Indigenous peoples’ inherent and prior rights to their lands and resources” and respects their authority to “require that third parties enter into an equal and respectful relationship with them based on the principle of informed consent. Procedurally, free, prior and informed consent requires processes that allow and support meaningful choices by Indigenous peoples about their development path.”
3) The UH Draft Plan fails to recognize that building the TMT on Mauna Kea’s summit would constitute irreparable desecration, impacting the culture, spirituality, and ancestral traditions of Kānaka Maoli amounting to cultural genocide.

Article 7(2) of the UNDRIP states: “Indigenous peoples have the collective right to live in freedom, peace and security as distinct peoples and shall not be subjected to any act of genocide or any other act of violence...” Similarly, Article 8.2 of the UNDRIP says “States shall provide effective mechanisms for prevention of, and redress for... any action which has the aim or effect of depriving them of their integrity as distinct peoples, or of their cultural values or ethnic identities [and] any action which has the aim or effect of dispossessing them of their lands, territories, or resources.”

The systematic destruction of culture that occurs with loss of access to historical, ancestral lands of cultural significance, leads to irreparable harm and in cultural genocide when distinct peoples are dispossessed of their cultural values and identities.

4) The UH can resolve past historical injustices inflicted up and experienced by Kānaka Maoli by not adding to additional cultural trauma and impact.

Although the UH states that the Draft plan “cannot resolve past historical injustices” it can certainly choose to do things differently and respect and protect Mauna Kea as a sacred and cultural site. While the argument that astrological research may be “critical to fully understanding humanity’s place in the cosmos”, the UH cannot make this argument while at the same time forgetting its own place on this Earth. We urge the UH to consider that with stewardship comes important responsibilities for maintaining Mauna Kea for future generations.

On behalf of the Water Protector Legal Collective, thank you for the opportunity to provide comments at this important juncture.

Sincerely,

Natali Segovia, Esq.
Legal Director & Staff Attorney, Water Protector Legal Collective

*Mni Wiconi*. Water is Life.
It seems to me that lots of people in the Islands are seeing the quality and quantity of life are not sustainable as it is now. One of the more important things that are sustainable are the observatories on Mauna Kea. Not only is this the best place in the world for these observatories, but they collectively bring hundreds of working people to the Islands. The millions of dollars because of the observatories bring to the Islands supports the island economy and the science of our world. At a time when we need to look forward and be like the early Hawaiians looking to the stars for the future of the human race. At any moment an incoming asteroid can make humans go the way of the dinosaurs. Telescopes are one way to look into our future and an early warning for asteroid impact. As our star ages, we as humans will need to find a new home if the human race is going to survive. I have seen a number young people coming to this Island for science instead leaving because there are very few sustainable jobs here. The observatories have gone out of their way to train and develop young peoples interest in space science. Human life cannot go backward and survive nature’s forward movement. TMT is a major step forward for human science and the advancement of the human race.
October 25, 2021

COMMENTS ON E Ō I KA LEO, DRAFT MASTER PLAN BY THE UNIVERSITY OF HAWAI‘I AT MĀNOA, 2021

Aloha Kakou,

Before I begin my comments, I would like to test your listening skills. I ask that my testimony be used in its entirety, and easily available for public viewing wherever any draft of the Mauna Kea Master Plan can be viewed. If it is not, I do not consent to the use of my name by the University in any way. Even if this testimony is reproduced and made available, as it should be, I do not consent to the use of my name in any manner outside of this comment itself. I do not consent to the use of my name as having been consulted, for example, or as having contributed mana‘o to a future draft that I may not support. In other words, to be very clear, I am asking to be heard without being used in any way as part of a consultation or approval process. This is of great importance, as refusal to be abused prevents many important and knowledgeable people, particularly genuine Indigenous cultural practitioners, from speaking in processes such as this one at all, for fear of their names, words, or other elements of themselves being used to rubber stamp a plan that they fundamentally oppose as contrary to that which is pono.

What is at stake here is not only the future of the most sacred mountain in Hawai‘i, but also peace itself. As a longtime Indigenous peacebuilder with long involvement in international human rights efforts, I profess that true peace requires true consent. Anything less than free, prior, informed, enthusiastic, clear consent, without any form of coercion, enticement, influence of systemic power, wordsmithing, narrative shifts or undue influence of any sort, whether in the case of a teenage date or a Master Plan suggesting indefinite possession and control of an Indigenous sacred mountain, is not pono. It is therefore not peace, and not true listening. It is my assessment, based upon the Master Plan draft itself, that the University of Hawai‘i has not listened to the community well thus far at all. I am hopeful that this opportunity to practice actual
listening, with real respect for consent, will be an educational opportunity for the University of Hawai‘i and all who are associated with E Ō i ka Leo.

Ho‘opae Pono Peace Project is a cultural peace resource focused on building cooperative solutions in the context of Aloha ʻĀina, human rights, and genuine perpetuation of Indigenous well-being and cultural continuity.

We have been involved very actively with Mauna Kea since our Peace Project became independent in 2011. I have personally been involved with issues surrounding the protection of Mauna Kea for over 30 years.

As a person of peace, I must speak the truth. The actions of the University of Hawai‘i have been extremely divisive in our community. “Community Benefits Packages” have been actively used by the University of Hawai‘i to entice fund-dependent Indigenous organizations and individuals to oppose cultural practitioners of their own communities whose genealogical connections require them to protect the mountain at all costs.

The stress resulting from this conflict has taken many lives.

Peace, at this juncture, requires blunt truth. This is the only way we will be able to heal our communities, our culture and the world we live in, which needs our collective attention badly.

To this end, I have highlighted some of the problematic elements in this plan’s introduction, foreword, and opening letters. It does not represent, by far, the problems with this plan overall. I did not even begin to cover the actual problems in the proposal, such as gates, Kia‘i restrictions, and astronomy development, all of which are likely to cause severe conflict.

I can be contacted if there are any questions in regard to anything I have outlined here. If there is any need to quote or otherwise use anything I have written in any manner beyond what I have outlined above (in full, available as part of the document where the master plan is posted, as it is my hope that all testimony is included), please request my specific written permission via our website at capono.org.
We are always available as a peace resource for continued dialogue in the building of genuine understanding based on true respect, peace, and pono. Please contact me at any time.

Mahalo nui loa,

[Laulani]

Laulani Teale, MPH  
Coordinator, Ho'opae Pono Peace Project  
https://www.eapono.org
### Opening letter:

The letter opens with: "Dear Stakeholder". (CMFS letter, 1)  

Problem: Stakeholder theory in itself is colonial. It comes from the colonial concept of power and rights via the process of holding a wooden stake to symbolize a colonial land claim, and relies on modern property rights as its foundation.  

https://link.springer.com/chapter/10.1057/9781403982292_11  
https://journals.sagepub.com/doi/abs/10.1177/108602660131001

### Title:

**"E Ō i ka Leo":** (Cover, 2)  

Besides the problem of Ō meaning more to resound than to listen, ka is singular. Therefore, UH is only listening to one voice, not the voices of the many. "E Ō i ka Leo" more accurately means "the amplification of (one) voice" than listening to many. This does not encourage participation, especially by those who already feel they are not being heard. Nā Puake Wehewehe ʻOlelo Hawaiʻi  

http://wehewehe.org/gesd4.85/cgi-bin/hdict?q=c-11000-00---off.0hdct-00-1----0-10-0-0-0-off-10-FD-4---textp.ukuleibert%ctextmamaka---0-11-haw-Zz-1---Zz-1-home-%c5%8d---0-4-0-0-0-4---0-11-00-0utfZz-008&a=d&d=D14820

### President’s Letter, “THE UNIVERSITY OF HAWAI’I COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP”:

UH acknowledges several things:

- UH is **humbled** by the criticisms from **disappointed and angry community members as well as past audits,** (pres letter, 1/9)  

Frankly, many Indigenous cultural practitioners have found this Master Plan to be condescending and offensive. They point out that UH has not addressed the essence of past audits, nor their criticisms. They assert that this reflects a lack of humility, not evidence of it. This choice of words is therefore seen as offensive by many.
<table>
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<tr>
<th>This Master Plan “focuses attention” on “the place of honor and renown that Maunakea has in the history, culture, and hearts of the Hawaiian people.” (pres letter, 1/9)</th>
<th>Practitioners point out that if they understood this “place of honor and renown”, UH would not be trying to build TMT or extend their lease at all. They feel that this is adding a grave insult to a genocidal injury.</th>
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<td>“we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” (pres letter, 1/9)</td>
<td>The key words here are “as we make decisions.” It is important to remember that Mauna Kea is Crown Land, the highest level of private property that rightfully (still) belongs to the Kingdom of Hawai‘i and its Head of State, to be protected and used in a sacred manner for the betterment of the Kingdom. Crown lands are unequivocally stolen lands that are being actively contested by those they were stolen from. The fact that UH presumes that the decisions are theirs to make indefinitely for this Crown land at all is not only hurtful to many, but also harmful in that it presumes that the illegal occupation of Hawai‘i by the United States will continue indefinitely, and that UH will continue to align itself with and benefit from this occupation.</td>
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<td>UH references “the Maunakea administrative rules entitled Public and Commercial Activities on Mauna Kea Lands (HAR Chapter 20-26).” (pres letter, 1/9)</td>
<td>These are the restrictive rules passed in 2019 by the UH BOR. When first proposed, these rules were clearly and specifically directed to limiting cultural practice and kia‘i access. Under legal pressure, a clause was added deferring to rights protected under Article 12, section 7 of the Hawaii State Constitution. It should be noted that Hawaii State law does not allow constitutional override by rulemaking bodies, so this was a legal necessity, not an act of goodwill. Practitioners, meanwhile, feel that §20-26-3(f) does NOT protect cultural practices, because, as in many State conflicts with the Indigenous People, there is an oppressive loophole allowing the State, in practice, to “regulate” these rights as they choose in any given instance, whether it is legal to do so or not, placing the burden on practitioners to prove their rights in court, often following arrest or confiscation/destruction of sacred shrines or objects, or tools. While these actions are often ultimately found erroneous by the Hawaii Supreme Court (if the practitioner has the extreme legal wherewithal for this fight), in practice, this means that UH/OMKM can continue to regularly block and interfere with cultural practice, forcing practitioners to battle them for the simple right to gather medicines or pray.</td>
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<td>UH: These rules “will better equip the managers to steward Maunakea in a way that balances the impacts of astronomy on cultural practices and the environment while amplifying community, educational, and research benefits for all.” (pres letter, 1/9)</td>
<td>According to kia‘i and spiritual practitioners of Mauna Kea, this a very fancy way of saying that UH intends to repress Kia‘i and cultural practitioners with violent force. Which has in fact been proven in practice.</td>
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<td><a href="https://www.hawaiitribune-herald.com/2016/10/06/hawaii-news/you-are-not-my-church-proposed-rules-for-cultural-practices-stop-mauna-kea-draw-criticism/">https://www.hawaiitribune-herald.com/2016/10/06/hawaii-news/you-are-not-my-church-proposed-rules-for-cultural-practices-stop-mauna-kea-draw-criticism/</a></td>
<td><a href="https://www.hawaii.edu/offices/bor/regular/testimony/201911060945/Written_Testimony___Comment_Received_2.pdf">https://www.hawaii.edu/offices/bor/regular/testimony/201911060945/Written_Testimony___Comment_Received_2.pdf</a></td>
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<td>UH: “It is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” UH states that they have reorganized through Resolution 19-03 and that this “established clearer lines of accountability and improved transparency within UH’s management operations.” (pres letter, 1/9)</td>
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<td>Kia’i report that they have seen no evidence of these clearer lines of accountability and improved transparency. Indeed, we were not able to find any evidence of this. <a href="https://20/mauna-kea-internal-management-restructuring-approved/">link</a> <a href="http://www.malamamaunakea.org/uploads/management/mkmbo/AgendaItems/2020-07-16_CenterforMaunakeaStewardshipPlan6.18.20.pdf">link</a> <a href="https://www.nature.com/articles/d41586-019-02304-1">link</a> <a href="//www.bigsislandvicedcnews.com/2020/08/">link</a></td>
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<td>UH states that the 2020 reorganization was a product of “more than 90 meetings with advisory groups, staff, faculty, community members, Maunakea observatories, elected representatives, government agencies, and partners.” They claim that “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.” (pres letter, 1-2/9-10) Later, in foreword, they discuss kia‘i participation.</td>
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<td>It is unclear why UH says that there was no participation, and then claim that there was. Many kia‘i would not participate in these meetings because they were very pro-TMT in feel (see meeting reports), and kia‘i did not want their names used in a railroad process that would only be used to prove consultation as a rubber stamp to the TMT project. They point out that there were, however, many simultaneous public venues taking place at the time, in which they were very clear on mana‘o. They state that real listening should have involved mana‘o that was shared outside of problematic UH-driven processes.</td>
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<td>UH state states that it is “fully committed to continuing this journey of deep listening, particularly in the Native Hawaiian community, as we make management and land use decisions.” They claim that this Master Plan draft demonstrates this commitment. (pres letter p 2/10)</td>
<td>Again, the key phrase here is, “as we make management and land use decisions.” I am going to have to be very blunt, here, because to do otherwise would be contrary to the real healing that is needed for true peace. This frankly sounds very much like a violent narcissist gaslighting an oppressed woman. A “journey of deep listening” is meaningless if they do not hear what is being said, and consistently continue the abuse. It illustrates the precise problem with “consultation” without consent that has been established internationally as problematic under FPIC.</td>
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<td>They mention the “the Rangers who protect everyone’s safety on the mountain,” (pres letter 3/11)</td>
<td>UH rangers are notorious for harassment of practitioners and interference with cultural practice. Common behavior has included: - interrupting ceremonies and prayer - arbitrarily deciding what practices are allowed or not - removing sacred shrines, implements, offerings, etc. - selectively disallowing established practitioners while allowing astronomy personnel to access the summit during inclement weather, regardless of vehicle considerations - confrontations</td>
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https://dash.harvard.edu/bitstream/handle/1/11156816/Swanner_qss.harvard_0084L_10781.pdf?sequence=3&isAllowed=y |
UH “stands firmly behind the **August 24, 2017, Board of Regents’ resolution**” and UH’s “commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and ... to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.” (here is the problematic 2017 reso: https://www.hawaii.edu/news/2017/08/24/resolution-affirming-collaborative-stewardship-of-maunakea/) (pres letter p3/11)

Oxford Languages defines “collaborate” in two ways:

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<th>col-lab-0-rate</th>
<th>/ˈkɑːləˌbərət/ verb</th>
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<td>1. work jointly on an activity, especially to produce or create something. <em>he collaborated with a distinguished painter on the designs</em></td>
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<td>Similar: cooperate, join (up), join forces, team up, work jointly, participate, unite, 2. cooperate traitorously with an enemy. <em>the indigenous elite who collaborated with the colonizers</em></td>
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<td>Similar: fraternize, conspire, collude</td>
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Collaboration in the first definition has not thusfar been with the Indigenous Kanaka who protect Mauna Kea. We advise that if UH wishes to show “a global model of harmonious and inspirational stewardship,” it may need to seek to build true consensus, even if this means making a commitment not to use systemic brutality to achieve its goals, and thereby limiting itself to those that are actually collaborative.

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Foreword (p4)

Breakdown:

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<th>Quote:</th>
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<td>“the mauna (mountain) compels us to gaze upward in <strong>search of the unknown</strong>, thereby <strong>engendering a sense of wonderment and hope.</strong>” (forward p. x/12)</td>
<td>It is hoped that this sense of wonderment and hope will eventually extend both upward and downward, to include the known as well as the unknown.</td>
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<td><a href="https://blog.uncsa.edu/science-blogger/maunakea-and-the-need-to-indigenize-astronomy/">https://blog.uncsa.edu/science-blogger/maunakea-and-the-need-to-indigenize-astronomy/</a></td>
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<td>&quot;Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred.&quot; (forward p. x/12)</td>
<td>Important: few Kanaka have ever said the Mauna was not sacred. Those who have were primarily amongst the small group of TMT supporters. They were not Mauna Kea cultural practitioners. The reason most commonly given was conversion to Christianity, meaning that no land is sacred because its sanctity was exterminated with conversion, or modernization, which follows a similar trajectory. <a href="http://kahea.org/blog/not-the-whole-story-about-tmt">http://kahea.org/blog/not-the-whole-story-about-tmt</a>. <a href="https://youtu.be/2ARoqT5DPxw">https://youtu.be/2ARoqT5DPxw</a>. <a href="https://apokidane.medium.com/whats-at-stake-at-mauna-kea-ap3e5d27fa04">https://apokidane.medium.com/whats-at-stake-at-mauna-kea-ap3e5d27fa04</a>. Note that selective consultation with assimilated indigenous community members has long been established as a function of colonial exploitation. <a href="https://readingroom.law.gsu.edu/cgi/viewcontent.cgi?article=3339&amp;context=faculty_pub">https://readingroom.law.gsu.edu/cgi/viewcontent.cgi?article=3339&amp;context=faculty_pub</a>. In fact, alignment with destructive projects can be used as a measure of colonial assimilation. It is the Indigenous practices that have not undergone assimilation that are in the most urgent need of protection, and therefore the unassimilated practitioners are the ones who primarily need to speak for sacred lands. <a href="https://www.jwga.org/images/publications/Concept_of_Indigenous_Peoples_in_Asia">https://www.jwga.org/images/publications/Concept_of_Indigenous_Peoples_in_Asia</a> - Digital.pdf</td>
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<td>&quot;The quest to understand their beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins.&quot; (forward p. x/12)</td>
<td>This is, in a way, profound, as it highlights the difference between colonial and Indigenous cultures. Indigenous Peoples do not need to “quest” to find our origins, because they are right below our feet. <a href="https://www.duo.uio.no/bitstream/handle/10852/49032/ASHerald-Mauna-Kea-Thesis-Final.pdf?sequence=1">https://www.duo.uio.no/bitstream/handle/10852/49032/ASHerald-Mauna-Kea-Thesis-Final.pdf?sequence=1</a>. What UH appears to be saying, from an Indigenous perspective, is that they are missing a piece of themselves, perhaps due to the spiritual disease of colonialism, and need to destroy our land to find it. While true peace should indeed support healing for everyone, tolerance of this destructive need for colonial dominance is not healthy, and supports neither healing nor peace.</td>
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<td>“thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in <strong>listening deeply</strong> to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.” (forward p. x/12)</td>
<td>We are hearing that listening is not enough. Affirming humanity would mean respecting the actual wishes of the Indigenous People, which are for UH to stop all proposals for further development and return the caretakership of the Mauna to those from whom it was taken. <a href="https://www.un.org/development/desa/indigenouspeople/mandated-areas1/human-rights.html">https://www.un.org/development/desa/indigenouspeople/mandated-areas1/human-rights.html</a>. <a href="https://globalnews.ca/news/6350772/genocide-canada-mmiwg/">https://globalnews.ca/news/6350772/genocide-canada-mmiwg/</a></td>
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<td>“our varied interests, as diverse and sometimes divisive as they may be, are in fact <strong>woven as lei</strong> (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us” (forward p. x/12)</td>
<td>Many feel that this is highly problematic cultural appropriation. <a href="https://www.thecanadianencyclopedia.ca/en/article/cultural-appropriation-of-indigenous-peoples-in-canada">https://www.thecanadianencyclopedia.ca/en/article/cultural-appropriation-of-indigenous-peoples-in-canada</a></td>
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<td>“Foundational values that guide UH’s stewardship and inform E Ō I Ka Leo derive from key tenets of the Hawaiian worldview, which holds that cultural and natural landscapes are one and the same. In this worldview, land is not a commodity but rather an <strong>esteemed elder in the Hawaiian family</strong>” (forward p. x/12)</td>
<td>The problem, from a cultural standpoint, is that either the Mauna is sacred or it is not. If it is sacred, UH control and astronomy development are inappropriate. If it is not, why speak of the Hawaiian worldview? One reaction: “An “esteemed elder”? So, it is ok to drill a hole in grandma’s face, then?”</td>
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<td>“The Hawaiian relationship to the land is one of reciprocity; people serve the land which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawai‘i Island community, and the astronomy facility staff who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of E Ō I Ka Leo is to help all fulfill their responsibilities to the mauna and to one another.” (forward p. xi/13)</td>
<td>It is difficult to understand how UH can say something like this in a plan that proposes to build TMT and continue the theft of Kanaka sacred land indefinitely. If they meant this, from the perspective of many Indigenous cultural practitioners, they would give it back. Period.</td>
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</table>
Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our plans and practices wherever we can. For example, the Kumulipo (an important Hawaiian creation account) describes Maunakea as the first-born mountain son of Wākea (sky father) and Papa (earth mother), who were also progenitors of the Hawaiian race. (forward p. xi/13)

Again, in the interest of real peace, I must be frank: This is cultural theft. Due to the known harmful, even deadly effects of this specific type of theft as a dispossession trigger, level that has been recognized as “second stage” genocide. https://en.wikipedia.org/wiki/Genocide_of_indigenous_peoples

UH is nonconsensually using the names of the most revered Kanaka Ancestors in a plan that literally proposes to desecrate, destroy, and block cultural access to those Ancestors’ most sacred temple, and they say that they intend to do this “wherever we can” in the process. This violates WIPO’s policies on World Intellectual Property rights, amongst many other problems, and is a prime example of nonconsensual cultural appropriation. https://www.wipo.int/it/en/indigenous/ https://www.indigenous.ca/blog/why-cultural-appropriation-is-disrespectful

Please note that it does not matter if some of the Indigenous population approve of the use of the words. This is UH's plan. Further, the spectrum of harm is weighted away from those whose beliefs are more compatible with assimilation to this aspect of colonial modernization, and toward those to whom the Mauna is sacred enough to have a need to protect it from harm.

“The resonance of the native Hawaiian kākea (call) to compensate for past injustices is clearly reflected in the ongoing conflict over the development of the Thirty Meter Telescope (TMT) and with what is viewed as over-development on Maunakea for astronomy in general. At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai‘i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.” (forward p. xii/14)

This could be seen as a red herring, as it shifts the narrative in a problematic manner. The Indigenous voices that count, according to international Indigenous standards, in any consultation are the cultural practitioners. It is an established and heinous colonial crime to deliberately create divisions by enticing members of an Indigenous community to oppose their people’s own cultural practitioners, for the purposes of pushing a project with known Indigenous opposition. https://library.oapen.org/bitstream/id/18055922-9c3e-4159-bc61-c475c4cc0111/621497.pdf

“Divide and Conquer” in Indigenous communities through monetary enticement has been established as an unacceptable act of colonialism. https://intercontinentalcry.org/divide-conquer-interview-tom-goldtooth-part-ii/
“Unfortunately, E ʻō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan.” (forward p. xii/14)

<table>
<thead>
<tr>
<th>Kiaʻi are concerned with present injustices. To be clear, “Past historical injustices” are perpetuated by present historic injustices.</th>
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<td>The common relegation of “anger” and “discontent” to the past is abusive. This is essentially an “embitterment fallacy”, similar to an abusive person denying allegations of abuse by assignment of the victim’s accusations against him to trauma over “past wrongs” done to the victim by others. It is a known form of gaslighting.</td>
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<tr>
<td><a href="https://www.researchgate.net/profile/Allison-Bailly-9/publication/348805974_On_Gaslighting_and_Epistemic_Injustice_Editor's_Introduction/links/5f6c73a9f92fecd5c4675674/citation.pdf">https://www.researchgate.net/profile/Allison-Bailly-9/publication/348805974_On_Gaslighting_and_Epistemic_Injustice_Editor's_Introduction/links/5f6c73a9f92fecd5c4675674/citation.pdf</a></td>
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<td>In 2016, UH collaborated with the astronomy-community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. (forward p. xiii/15)</td>
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<td>Some kiaʻi did participate in this, but reported it as problematic and controlled.</td>
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<td>They pointed out that their statements against telescope development were not included in the Envision Maunakea report, while pro-astronomy voices were quoted heavily. Furthermore, kiaʻi who did participate were stereotyped as “snickering” and disrespectful to an elder relative of UH Astronomy staff in the published report, which they reported was not true. Envision Report:</td>
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Halepōhaku serving as a multi-disciplinary field station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics. (forward p. xiii/15)

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<tr>
<th>This is problematic. Hale pohaku is at an elevation where traffic (aside from cultural usage) needs to be discouraged, not increased. School groups and more tourists are really not a good idea here. Cultural practitioners need to move freely, as is their tradition and right, without interference. Others need to be minimized.</th>
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Foundational to future educational programming and field work would be building a solid cultural base of 'ike Hawai‘i and nohona Hawai‘i (traditional practices) underpinning all offerings and opportunities. (forward p. xiii/15)

Let’s look at this statement from the viewpoint of a kia‘i reading this plan. He may well say, “You want to destroy our mountain that you say is not sacred enough to protect, and then you are going to steal our cultural words and concepts for these cheesy programs on top of that?”. While these cultural gestures may be intended as amelioration of some kind, they are actually highly offensive to many, and therefore tend to aggravate conflict, rather than resolve it.

<table>
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<tr>
<th>MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES (p. 1-1/18 - 1-3/21)</th>
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<tbody>
<tr>
<td><strong>Mission</strong></td>
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<td><strong>UH’S VISION</strong></td>
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<td><strong>CORE VALUES</strong></td>
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<tr>
<td>GOALS AND OBJECTIVES</td>
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Goals and objectives (problem areas):

| Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research. | This sounds as though it means blocking Kia‘i. |
| Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited. | Since they have already stated that Mauna Kea is “ideal” for astronomy of all kinds, this sounds like a fancy way of saying that they will limit themselves to anything they want to build. |
| Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable. | Adverse to Mauna? Or astronomy? There is clearly a conflict of interest here. It needs to be remembered that “environmentalism” is frequently used against Indigenous peoples, also, despite the positive effect that protection of Indigenous cultures has on the environment. |
| Affirm and protect Maunakea as a wahi pana and wao akua. | From a kia‘i perspective, this would mean stopping telescope development and dispossession. |
| Maintain the physical and administrative environment necessary to continue cutting-edge astronomy on Maunakea. | The intention to oppress or restrict kia’i can be easily read, here. Again, excessive wordsmithing is not conducive to peace. Also, the competitive nature of this section is problematic. Why does UH need to be a “leader”, “cutting edge”, etc? Kia’i might question, is that position in competition really worth brutality against an Indigenous culture? |
| Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research. | This sounds like an intention to oppress Kia’i. |
| repurposing the Halepōhaku facilities as a Multi-Disciplinary Field Station to support a broader range of education and research. | Bringing more people for broad education is not good. |
| In partnership with the Native Hawaiian community, determine the feasibility of, and develop plans for, establishing a hālau for ceremony and education on the mauna. | This is highly inappropriate. Divisive, disrespectful, and damaging. No Mauna Kea cultural practitioner, to my knowledge, asked for or wants this. It would sow deep division and conflict, rather than helping to resolve anything. |
More quotes of note:

<table>
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<tr>
<th>“A destination for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences” p2</th>
<th>This is problematic. Sounds like edu-tourism.</th>
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<tr>
<td>“In managing this precious area, UH recognizes that it must <strong>protect the area’s value as a culturally significant landscape</strong> and a recognized historic district with many contributing historic properties; who for some it is a wahi pana (storied/legendary place) and for others it is considered <strong>wao akua</strong> (realm of the gods).”</td>
<td>This is highly problematic. There is simply no pono way for a colonial force to “manage” a place has cultural value, and “protect” it from the people of that culture, who do not consent to their involvement at all.</td>
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<tr>
<td><strong>Mālama</strong> (care for). Maunakea is a significant cultural and natural landscape. It is wahi pana and, to many, <strong>wao akua</strong> where ʻike Hawai‘i and traditional Native Hawaiian cultural practices were born and are exercised.</td>
<td>The profuse usage of cultural terminology is certainly problematic, from the viewpoint of many kanaka, in a plan that seeks to destroy part of the most sacred mountain of that culture.</td>
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<td><strong>Kuleana</strong> (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources;</td>
<td>This section makes it sound as though the repression of kiaʻi for the purpose of modern astronomy is the “kuleana” of UH. That is truly offensive. It would be much better to leave the cultural terminology out of the mix, in proposal areas such as this.</td>
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<td><strong>Decommission a sufficient number of existing astronomy facilities</strong> to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033, and do not exceed that number throughout the remainder of the time covered by this Master Plan.</td>
<td>While decommissioning is a long term plan, it can be destructive and problematic in itself. It is not a secret that UH wants to be able to build more, larger, “cutting edge” telescopes. Decommissioning is a major step toward more construction. “Swapping” telescopes results in far more impact to the Mauna.</td>
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25 OCTOBER 2021
In the Hawaiian Islands

Fm: Liko-o-kalani Martin
P.O. Box 61508
Honolulu, Hi. 96839
likomartinhawaii@gmail.com

To: The Board of Regents, (University of Hawaii and California) & University of Hawai‘i at Hilo/ Center for Mauna Kea Stewardship;

United States Secretary of the Interior, Deb Haaland
1849 C. Street, N.W.
Washington D.C. 20240.

SUBJECT: Review, Input and Comments on the University of Hawaii Draft Management Master Plan for Mauna Kea (Sep. 12, 2021);

CONSTRUCTIVE NOTICE -

Distinguished Regents and Facilitators, ano ‘ai me ke aloha,

I am an elder Hawaiian Kupuna, one of thirty-eight that were arrested on July 17, 2019, while peacefully assembled to prevent the construction of a thirty millimeter telescope (TMT) on the pristine Northeast plateau near the summit of Mauna Kea. This environmentally pristine and delicate ecosystem is a place of antiquity, studded with numerous shrines and sites used in the context of indigenous science and religious practice, and is in close proximity to ancient burial sites and prehistoric features. Incursions into this delicate and pristine Northeast plateau to construct the TMT will lead to the complete destruction and desecration of these features.
In 2016 I visited the location and was awestruck by the vastness of the view plane, looking down into the crater of Haleakala, seeing as far as the clouds over Poliahu heiau in Wailua, Kauai. Surrounding me were a series of platforms built in ancient times, along with many natural rock formations showing signs of glaciation. It was simply breathtaking to stand there. On the trail leading there was an ahu, constructed by religious practitioners for seasonal ceremonies marking the passage of time and the seasons, unfortunately it has since been destroyed, removed to prevent those practices and rituals from continuing.

It is ironic that the Native American Religious Freedom Act, championed by Senator Daniel K. Inouye, which was intended to protect FREEDOM of religious practice, has failed to protect Hawaiian religious practitioners from subjugation, persecution, regulation, exclusion, limitation and restrictions on religious practice. That legislation, as a matter of fact, emanated from the struggle to stop the United States from using the island of Kahoolawe as a military training ground. Once bombing had ceased, inspections revealed the destruction of hundreds, and perhaps thousands of cultural sites, we will never know!

The Native American Graves and Repatriation Act (NAGPRA) for all its best intentions, miserably failed in these Hawaiian Islands, as evidenced in the U.S. National Park Service 2010 (20 year) Audit of the state of Hawaii (SOH) Historic Preservation Division and Burial Council activities. As a
consequence the (SOH) historic preservation system was designated as “a high risk grantee”, and that designation was only recently lifted in 2019.

So here we are in 2021, and the Hawaiians, as a whole, throughout the islands are being unable to, and in some cases forcefully prevented from freely practicing their religion, which is in essence a lifestyle of living in harmony and awareness of our natural environment that acts as our living church, our religious temple, Mauna Kea being its steeple. Senator Inouye, during the Apology Law debate, while being questioned by his colleagues on its necessity, workings and its implications, rose to the floor and stated, “this has nothing to do with the question of whether native Hawaiians are Native Americans.” That question, poised by the Senator, is at the crux of this issue.

I can make no claim to any civil, political, or human liberties that emanate from or have any nexus as a “native Hawaiian”, defined by the apartheid Hawaiian Homes Act of 1920, as amended, because in doing so, or allowing that distinction to be placed upon myself, as is generally done to identify Hawaii’s original Inhabitants, is acquiescing to apartheid.

It is imperative that the distinction of our true identity is applied not just with respect to Mauna Kea but to all of the lands, and juridical regime of historic bays and waters comprising the Hawaiian Islands. We, the Kanaka, are the original Inhabitants who discovered, surveyed and settled not only in Hawaii, but who inhabit the islands within what is known as the Polynesian Triangle. We are intrinsically connected by kinship, language, customs, culture and bioregion. As a part of that group, we in the Hawaiian Islands have evolved into a highly sophisticated society, a recognized independent and “inviolable” neutral nation-state that still exists in continuity under international law. Mauna Kea is a part of our heritage, our DNA, and sacred as life itself.

My name is Liko-o-kalani Martin, born October 25, 1945 in Aiea, Oahu, in the Hawaiian Islands, to Marion Healani Heen, being part-Hawaiian. I am exercising my basic human ‘liberties’ in determining for myself my ‘Nationality’ and political allegiance under and within the constitution and
laws of the Hawaiian Kingdom, as duly enacted on and prior to January 17, 1893, when Her Majesty Queen Liliuokalani did “yield” and invoke a “treaty of protection”, until such time that the lawful constitutional government of the Hawaiian Kingdom is reinstated, and that is the true foundation of the “trust obligation” of the United States, its State of Hawaii and its People, to myself and others so situated, and directly applies to the treatment of Hawaiians on the lands situated on Mauna Kea, and “anything to the contrary [is] notwithstanding”.

I hereby provide Due Notice of my nationality, in respect for the terms and conditions on the title in the lands on Mauna Kea, and the ongoing force and effect of ‘Hawaiian National usage’. I am still a victim of discrimination in this process, being persecuted and prosecuted subject to criminal proceedings, not ‘provided by the Hawaiian Laws’ as lawfully enacted on or prior to the January 17, 1893.

With respect to aforementioned, I sincerely appreciate this opportunity to offer my perspectives on the proposed TMT and management plan for Mauna Kea, and join with you, to navigate and chart a course through the decision making process towards our destination and decisions regarding the fate of Mauna Kea.

The management plan as it sits provides a wealth of information, pros and cons on a variety of issues, and allows one to grasp the sheer scope and interrelation of those issues. I offer my comments, based upon my experiences from a wide range of perspectives, sometimes as a petitioner and at times an intervenor. My comments, offered in good conscience and in good faith, are as follows:

1 - fails to adhere to the terms of the (ownership)Title in lands;
2 - fails to ensure that ahupua’a rights will not be violated;
3 - fails to protect ahupua’a lifestyle;
4 - fails to adequately protect Certain Rights of the People-Hawaiiana, and various classes of tenants, and their rights of use and occupancy;
5 - insures permanent and irreparable alteration of the natural pristine environment of the northeast plateau, designated as the site for the planned Thirty Millimeter Telescope (TMT) located near the Summit of Mauna Kea, will be irreparably altered, destroyed, and contaminated;
6 - insures desecration and destruction of the existing portion of the ring of shrines dedicated to indigenous Hawaiian science, and sites erected for religious use.
7 - insures the contamination and permanent alteration of geomorphic features of the headwater basin for streams flowing into the Kohala mountains and Hamakua Laupahoeoe;  
8 - fails to adhere to the highest conservation status previously applied;
9 - insures the spoilage of endangered environments, flora and fauna, by inappropriate commercial exploitation activity such as tourist access, that is being encouraged and accommodated in this management scheme.
10 - legitimizes and commodifies destruction, contamination and desecration upon Mauna Kea simply because it was previously allowed to happen in previous construction of observatories;
11 - fraudulently represents that prior observatories were properly permitted, when in fact, no "qualified historic preservation review commission" (as required under Title 16 USC-CONSERVATION, with respect to operations of a certified local government) no agency or administrative entity had ever existed during those previous construction periods, nor does one exist at this present time.
12 - the plan exemplifies a sophisticated process of public bribery, extortion and coercion in dealings with TMT proponents and other commercial enterprises, much like activities associated with racketeering influenced and corrupt organizations (RICO), and should be examined in that criminal context by the U.S. Department of Justice (FBI);
13 - criminally enforces apartheid and encourages discrimination by use of the term "native Hawaiian", as defined by the Hawaiian Homes Act of 1920, a term specifically used to treat persons as wards, incapable of managing their own interests, rather than persons whose 'national origin' stemming from the Hawaiian Kingdom, as wards. Apartheid, slavery and involuntary servitude is currently outlawed, under the International Covenant on Civil
and Political Rights (ICCPR) and the International Covenant on the Elimination of all forms of Discrimination (CERD), and as the United States and its people are obligation, so is the State of Hawaii and its people.

14 - plans show a pattern of malicious expropriation and use of Hawaiian language, terms, heritage, religious practices, and other personal accounts that have been offered in this process.

15 - plan incites the commission of crimes of genocide as articulated in U.S.P.L. 100-606, The Proxmire Act, Nov. 4, 1988, Pres. R. Reagan, 18 USC 1091, Chp. 50-A - GENOCIDE, because it creates conditions whereby people who have been inadvertently psychologically tortured, physically abused, assaulted, terrorized, and prevented from exercising their human liberties and freedoms, will be further subjugated under conditions in which livelihood and religious practices will be forcefully regulated, limited, restricted and even excluded. This management scheme disguises this subjugation, in the pretense of recognition, but with the consequence of deprivation, of the “part”, and the “whole”.

16 - lays the groundwork, exemplifying a “final solution” approach by the syndicated powers that be, within the body politic of the U.S. political “provisional” subdivision aka state of Hawaii (US Federal Const. adopted), to effect political crimes upon a civilian population by means of domestic laws. As such, liabilities are automatically invoked upon individuals under the ROME STATUTE of the International Criminal Court (ICC)(Geneva) for perpetration of crimes of genocide, crimes against humanity, and war crimes:

17 - reflects a denial of my right of political self-determination in conformity with the purpose and principles of the United Nations Charter and freedom to pursue economic, social and cultural development;

18 - fails to ensure the unfettered exercise of civil and political rights;

19 - planning process does not provide an effective remedy for the settlement of disputes, due to the lack of a court of competent jurisdiction;

20 - reflects an absence of articulated laws which give effect to the protection of my freedoms, and enforcement against violation;

21 - reflects lack of oversight and compliance with existing law by persons with authority, or those who purport to act in an official capacity;
22 - reflects lack of consistency in providing protections under international law to prevent “abuse”;  
23 - failure of a State party to notify the Secretary-General of the United Nations of the derogation from international obligations to adhere to the rule of law, in a time of emergency that affects my group as a whole, and in part, whose rights of sovereignty in the “national lands”, has not been voluntarily “relinquished” (See, Congressional findings, USPL 103-150);  

24 - invokes restrictions and derogations upon my fundamental human rights, under the pretext that inadvertent discrimination is acceptable;  
25 - reflects an arbitrary deprivation of my right to life;  
26 - subjects persons to persecution;  
27 - subjects persons to inhumane and degrading treatment;  
28 - subjects persons to servitude and slavery;  
29 - summarily and arbitrarily denies my liberty, security and/or protection from arbitrary arrest and/or detention;  
30 - reflects the incompetence of the judicial system, administrative officers in the exercise of judicial power using the courts of the Hawaiian Kingdom, in the Hawaiian Islands;  
31 - does not afford protection from unlawful arrest or detention, or an enforceable right to compensation;  
32 - reflects a denial of my liberty of movement;  
33 - reflects control over my right to freedom of thought, conscience, and the manifestation of religious worship, observance, practice and teaching;  
34 - reflects manifested pressure and subjugation to coercion in the impairment of my religion and beliefs;
35 - reflects a lack of protection of the national interests, and integrity of our 
"national lands";
36 - reflects advocacy against my national identity constituting an 
incitement to discrimination and hostility;
37 - imposes restrictions on the right of peaceful assembly in the protection 
of Hawaiian national interests, safety, spiritual health, morals, rights and 
freedoms:

38 - fails to address restricting/restrictions upon foreign military armed 
forces situated on Mauna Kea, or local police from interrupting and 
preventing freedom of association for the protection of our national 
interests;
39 - reflects lack of maintaining unity and protections for the families and 
individuals, Hawaiian and Part Hawaiian, in respect for their collective and 
individually vested interests, and society as a whole, on the part of the 
United States and its political subdivision state of Hawaii;
40 - process and plan did not and does not provide equal protection before the law, because of discrimination based on “religion, race, color, ethnicity, [political or other opinions] and “national origin”;
41 - process and plan effectively deprives, denies, threatens and imposes upon my right to enjoy a cultural lifestyle, in community with other members of our group:
42 - reflects a failure on the part of the United States, and its political subdivision being the “administering power” in the Hawaiian Islands, to adhere to GENEVA IV- Respecting the Laws and Customs of War on Land, and Annex Regulations concerning the Customs of War on Land (U.S. signatory 1908-HAGUE), as well as the applicability of international laws and instruments relating to the protection of political and civil rights of civilians, or Hawaiians and part-Hawaiians who are currently classified as “protected persons” by Amnesty International (U.S).
43 - reflects a prohibition and impairment of my, and my national groups, rights in the utilization and enjoyment of our national wealth and natural resource wealth:
44 - causes and proliferates illegalities to arise under the laws of the United States, its state of Hawaii, and ordinances of the County of Hawaii, by the use of a Tax Map Key (keyed only with no determination of ownership [or notice of prior interests of third parties], due to the lack of uniformity in the method of assessment for the purposes of taxation;
45 - fails to include the application of desecration laws and the pattern of systemic avoidance to enforce desecration laws, at either the U.S. Federal, State or County levels. Comments are closed.

In the non-contiguous Pacific area of the Hawaiian Islands, jurisdiction for discretionary oversight of historic preservation programs and conservation is conferred to the U.S. Secretary of the Interior, under Title 16 U.S.C.- Conservation, and under U.S.P.L. 99-239 Compact of Free Association Act of 1985 Title III - Pacific Policy Reports - with respect to the United States attaining, “… its international obligations”.
In pursuance, beholding to the officially no-abrogated treaty of "Friendship, Commerce and Navigation of 1850" between the United States of America and the Kingdom of Hawaii, I am forwarding my comments on the Mauna Kea, management proposal, to the U.S. Secretary of Interior, Deb Haaland, requesting her, at her discretion, to intervene and investigate this contentious situation regarding the construction of the TMT (taking into account the cumulative negative impacts from pre-existing observatories, and the added impact of the TMT, along with increased impacts by recreation and tour operators, and other activities in conjunction with the management proposal for Mauna Kea), in order to determine if aspects of the State certified local government [program], as applied to Mauna Kea, are consistent with Title 16 U.S.C. - CONSERVATION, provisions relating to:

1) “Certification of local governments…”, given the non existence of a “qualified historic preservation review commission” for the County of Hawaii, Maui or Oahu, with the exception being the County of Kauai (see (U) MEMORANDUM, 12 August 2002 from the Kauai Historic Preservation Review Commission- per the Hawaii Revised Laws of 1955, Volume I, Chapter 14 - CERTAIN RIGHTS OF THE PEOPLE - HAWAIIANA).
2) to, disapprove of the State “certified local government” system.
3) to, suspend in whole or in part any contracts or cooperative agreements entered into by the State certified local government, and/or the State Historic Preservation Officer, until the program is consistent.
4) and, at the discretion of the Secretary, to conduct a fiscal audit of the State certified local government system.
5) consider a management substitution that would establish oversight methods to ensure State program consistency and quality, with respect to Title 16 U.S.C. - CONSERVATION, Part A - Programs, 470(a) Historic Preservation Programs.
Thank you for this opportunity to share my concerns. I shall look forward with anticipation that these remarks, while they may be blunt, are meritorious and worthy of serious consideration at this critical juncture, adding understanding, clarity and direction towards raising the level of unity and integrity in this process.

Respectfully submitted,

Liko-o-kalani Martin

  (https://drive.google.com/file/d/18giG0gmFyjYHrzZ8cyLKyceNxmtaPqWCi/VIEW?usp=sharing)

- KHPRC 8-12-02.pdf
  https://drive.google.com/file/d/1Zi1PlaEL-BkPX7EHfnT5yYcwyomhF8Nc/VIEW?usp=sharing

Dawn on Mauna Kea, July 17 2019
(before arrest of 38 kupuna)
Photo by Liko Martin
Testimony in response to the UH Master Plan for Maunakea

I read the Mauna Kea Master Plan beginning at the appendices and working to the front of the documents. Two things are glaringly apparent. The plan provides clear insight into the long-term game plan and true agenda of the University – to continue to justify and push forward the TMT. It also lacks sufficient detail to determine the real level of impact the plan will have on the natural and cultural landscape, nor the true nature of impact to the Hawaiian community due to the persistent belief of the university that the telescopes should be on Mauna Kea.

Professional planning has its good and bad sides; at its best, it starts by including the information up front they know will be asked for along the way, instead of wasting the public’s precious time and energy having to push back for what is necessary. This plan is not one of those examples; it does not demonstrate the “deep listening” it claims to attend to. Instead, it is a bare bones outline with limited context and intention.

The plan begins with the awards and accolades the University of Hawai‘i and the Mauna Kea management group have been given. It talks about the benefits – to a very few Hawaiians and other students who may be part of astronomy programs or have a short-term construction job, perhaps even a few will continue on as researchers. We already know from decades of observation that none of the high level/highest paid research positions have ever been filled by Hawaiians.

That said, the tiny number of beneficiaries is far out-weighted by those who will be negatively impacted by the ongoing presence of the telescopes, old or new, on Mauna Kea. It is ludicrous to pivot the argument for telescopes on the Mauna on the fulcrum of 5 or 150 researcher or student jobs or internships, or a temporary 100 construction jobs (hypothetically), at the expense of cultural integrity for 50,000 or 250,000 Hawaiians and the integrity of the Mauna itself, let alone the professed “benefits to the world” against a culture that has consistently been abused of its rights and its lands. If we were to use that same argument, the survival of the Hawaiian people, their knowledge and culture, the integrity of their lands, is of far greater value to the world right now than the study of galaxies beyond our reach.

We also know that the future of hardened structure observatories has an end. That new technologies and satellite/space station imagery will rapidly replace the need for such structures. The required Section 106 review will take 3-5 years. By the time the TMT is projected to be finished (2033, just as the permit will end), if built, it will be two decades obsolete. The university continues to demonstrate a lack of vision about the future of astronomy in this regard, and a lack of vision about what is actually a science reserve (and what that could mean), not an astronomy subdivision.

For some, space and its galaxies are a puzzle to be untangled – how our world, the stars were made or destroyed. Fascinating questions. Yet, astronomy, as a science, has always been and continues to be predicated on discovery, and more so, the discovery doctrine of the Western world – the right to seek out new worlds, establish colonies, dominate and lay claim to them. A doctrine that has, and continues to, negatively impact indigenous peoples and the living biota of this world, globally. The right to build where we should not build, to claim lands and authorities that are not ours to claim. This colonizing doctrine sits unacknowledged in the very foundations of the science – and in the University of Hawai‘i’s attitude and presence on the Mauna. It assumes it has a right to be there, just as the State assumes it has a right to Crown Lands. Underlying the discovery doctrine is exploration – more aptly, exploitation - a well-documented practice of using
up a place until there is nothing left, and abandoning it, as is, for new ground (to suggest that Western exploration is no different than that of the Pacific navigators is to fail to grasp the fundamental differences in those relationships to ʻāina). Not dissimilar to the University’s long history of ‘abandon in place’ regarding decommissioned telescopes and support structures on Mauna Kea. Or, its asteroid research whose goal is mining.

Astronomy has a second hidden ‘truth’—the Western world’s fear of dying. Where do we go—do we persist as a species—if the Earth ends? Aptly framed this month (HAS 10/14/2021) by David Bennett, a senior research scientist at the University of Maryland and NASA’s Goddard Space Flight Center, “If humankind wanted to move to a moon of Jupiter or Saturn before the Sun fried the Earth during its red supergiant phase....,” a point in time that is more than a billion years away. More insidious in this goal is who, of Earth’s billions of people, will get to go when the time comes? A question and problem ripe for class- and culture-based discrimination (pay to play) or fueling “Squid Game”-like behavior across all groups and nations for a limited right to ride.

Follow the money in astronomy research and you will see a leaning towards finding and studying planets we might be able to live on in the future. Follow the money on Mauna Kea and you will see that even “decommissioned” telescopes have an end game of scoring the TMT and that the old sites will not be returned to restored ground. Parking lots—for “visitors” (aka tourists) rather than a removal of the density of unnatural footprints and our presence.

Why bring this questioning of the foundational stones of astronomy, itself, up here? Two reasons; first, it is time for us to question deeply how astronomy operates as a discipline and at UH; and, the politics that the program and UH plays, particularly its selective use of Hawaiian culture and selective claims of benefits to Hawaiians when it wants something that runs counter to and threatens to further undermine cultural and ʻāina-based integrity.

Equally important, our greatest threat in the immediate future is the escalating damage we have caused to the Earth which has precipitated global warming and climate change. Are those “driving questions” of astronomy where our attention and resources at UH (or nationally) should be right now? Where do ethics stand when a researcher’s “I just really want to know” right, fails the right of the Earth to thrive or our right to thrive as a people? Rather than looking for habitable planets beyond us, we have a far more urgent kuleana to repair the damages we have caused right here, and quickly so that we can, if we survive the next millenium, let alone the next billion years, be prepared to voyage to new “islands” in a more pono manner. The Pacific islands are already losing, Hawai‘i is already over-burdened; Mauna Kea, Mauna Loa, Haleakalā are all over burdened. The bulk of ours and the University’s attentions and resources should be focused there. Cleaning up our footprint. Demonstrating long-term that we actually deserve to be considered as inhabitants of these islands or another world. Our children copy what we actually do, good stewards or bad, not what we say or put down on paper.

The University, the regents, astronomers fail to grasp the impact of continuing to treat Mauna Kea, which is designated as a scientific reserve and not the exclusive realm of astronomy, as a development zone. To play it like a chess game—what can we lose and still win—to keep the TMT in the game and control of the Mauna in its own hands. A case in point, the proposed Hokukea telescope education center received overwhelmingly negative response, yet, UH continues to push it, determined to plow ahead no matter what is said or heard. Modern day “glass beads”.

Page 756
The entire plan skims over who Mauna Kea is and what it protects for all of us. Water. Sacred space. Not sacred because, as the plan wrote, “some say it is.” Rather, sacred long before and after our own tiny moment of existence as a species runs fleetingly through the life of these islands and planet Earth; long before and after heiau or observatories are placed and return to dust. Indeed, not only are there no hydrology studies that describe the things you don’t know, but, they indicate the high level aquifer is being contaminated by the presence of the telescopes.

This paragraph, one of the last I read and the most telling of all in the document, is where the master plan and the university utterly fails in understanding its responsibilities, and fails the purpose of a Master Plan itself [italics added].

“Unfortunately, E ʻŌʻI Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan.”

By this statement, the University hopes to hide the last 56 years of bad acting and bad management under the cloak of the Overthrow and all that came with it; an attempt to absolve itself of the last 56 years of poor and disrespectful management of Mauna Kea by its own hands. That they say they cannot right the wrongs of a past they, themselves, perpetrated is a slap in the face to all of us, both against or for the telescopes on Mauna Kea. That they say they cannot decide now, of their own accord, to withdraw from the mountain and make things truly right, but rather it is up to the State and federal government to make that decision, is the biggest lie of all. The above statement shows the University will continue to refuse to take responsibility for its own actions of the past until the end.

While the vision is inspiring, the Plan’s mission statement, again, fails the Mauna. It is solely focused on how the University will use Mauna Kea. Not one word in the mission puts Mauna Kea first. The same is true of the Balance goals. The word “sustainability” has come to mean maintaining the rate, and right, of use, rather than restoring the lands we wish to have access to. There is little in the plan to suggest otherwise. What exactly does UH intend to sustain?

In stating that it sees one of Mauna Kea’s values as “A destination for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences...” it makes clear that UH seeks control of engagement in the wao akua and it includes the selling of a “destination” experience. Tourism does not belong on the Mauna and conflicts with the restorative processes and presence required of us to make things right.

The core values sound well and good, but why would we trust an institution that has consistently flouted the very values they repeatedly trot out and profess to uphold in project after controversial project for decades? Just one example, the master plan “Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.” Who gets to decide this?

Regarding UH goals to maintain a world-class astronomy program it fails to include a critical objective to educate itself and visiting researchers from other institutions to respect Mauna Kea, Hawaiian culture, and the kia‘i mauna. That includes putting a stop to the the derogatory and racist conduct, words, and attitudes of researchers that have been on display for the world to see
and arrogantly places conventional/modern science above indigenous scientific wisdom. It includes putting a stop to "handling" conflict by calling in the police and the military. It includes putting a stop to the PR campaigns meant to raise astronomy research accomplishments over the perspectives and millenium of knowledge that resides within the Hawaiian understanding of ʻāina relationships and responsibilities. We have watched as preparation for the reopening of the mountain has included increased press in local newspapers about "discoveries" from observatory research and the "focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public;" white washed language for brainwashing masquerading as "education" and right out of the UH PR playbook for turning public opinion from opposing positions when past controversia University research resulted in intense conflict within the Hawaiian community. This includes encouraging press language that paints the protectors of the Mauna as "foes" (HAS 10/20/201) and "activists" (as if that were a dirty word) rather than the steadfast cultural practitioners and protectors they are. And, like many of those other conflicts, the question must be asked – how many millions of dollars have gone into that PR machine to try to swing opinion about Mauna Kea and the TMT that could have gone to higher UH system priorities?

To spend tenfold more in one year on PR to drum up public or legislative favor of a project, and against Hawaiians when they don’t agree with UH, and on police force, than the entire annual budget of e.g., bridge programs from high school to college, scholarships, repairing infrastructure on its research and demonstration farms, or filling needed teaching and extension positions in rural communities that, as a land grant university, it is supposed to serve, is a shameful misuse of resources in the name of "world class science."

Hitching UH’s vision to the State’s economic vision, one that remains entrenched in dependence on tourist dollars, a plantation mentality in agriculture despite its claim to ‘diversification’, and the military, is to say that nothing will change. The University needs to delink from this failed and limited vision; challenge yourselves to step outside the institutional comfort zone and be better. Choose a pono economics vision instead.

Unmentioned is the funding the University expects to gain or the true cost to the State (aka Hawai’i taxpayers) – it’s always about the money. The TMT project is short of funding to the tune of $2.4 billion and growing. The state is aware of this but is allowing UH to start construction and sticking us with the bill (as if the rail project and upcoming remake of Aloha Stadium is not enough). On every island, developers push the envelope on permits with the same excuse that the University has used with the legislature; “We’ve already invested money, you need to let us finish.” The typical state agency response; “Well they started building, they invested money, so we can’t tell them no, or to remove it.” We can, and we should.

Seemingly small elements of the Master Plan such as the installation of a “kiosk”, actually a toll booth, implies that the University has the right and authority to be the gate keeper for who accesses the Mauna – it does not. Its placement appears to be a thinly veiled attempt to shut down future access to the kia’i mauna should UH perceive the need. The words “protect public health and safety” were used regularly as a rationale to bring in police force in attempts to remove kia’i mauna during the protests of the last few years. The access road to the summit is a public road with a non-exclusive easement, the critical portion of which belongs to Hawaiians. The NARS area is public land. The University has no rights over Waiau and cultural practitioners should be able to travel to these places without having to request permission from UH months in advance for
a pass for observations. The answer to a request to enter belongs to Mauna Kea, to Poliahu, Pele, Lilinoe.

The problem with Kupono, trustworthiness, as a value that UH is saying it will subscribe to, is that the University has had too many chances to get it right, and failed to act each time. Now by their words, even with the offer to decommission structures, they refuse to be held responsible for past actions. Not once has it occurred to UH to take seriously the first step in ho‘oponopono – mahiki and ‘ola I‘o - truthfully acknowledge its many wrong actions specific to Mauna Kea (or other research projects), understand the impacts of such actions, publically apologize for the injuries it has caused, and mean it. It is this piece that is always missing from the University’s attempts to move forward. And, it is the reason UH is no longer trusted as an institution.

When a person, given dozens of opportunities to change, continues to abuse another for that long, it is recognized as pathological behavior that needs to be stopped. We know that “rehab” doesn’t work in such recidivist cases; that when cornered they will paint a slick rationale; make all kinds of empty promises in a bid for ongoing freedom. Just as we know this master plan and its words are an attempt to say anything (and do the minimum) to “keep the TMT door open” plan. The fact is, UH is only engaging in this new process because it has been forced to by the growing voices of opposition. The institution would not have endeavored to take this step on its own. The damage inflicted on others by years of bad acting can only begin to heal with true justice. It is time that the University loses the privilege of leading (or having the final say on) the master plan or managing Mauna Kea.

Astronomy students will still have options. Beginning with a more limited observatory presence on Mauna Kea (and Haleakalā), there are prestigious programs across the world that students and UH researchers can be a part of, that the University can facilitate partner programs with. There are programs beyond the University across Hawai‘i where they can learn the way their ancestors saw the stars and understood the heavens, from the deck of a voyaging canoe or the top of Mauna Kea.

If the summit of Mauna Kea remains a telescope subdivision, what options does that leave for the Mauna, itself? The presence of Poliahu in July of 2019 and the swelling of its crown by her sister tells us the response:

This Master Plan should be rejected in whole and sent back to the drawing board. The Mauna is part of the Crown lands. It is kanaka maoli who should determine what happens there. Without indigenous consent, there should be no further development, nor should UH have a say in how the existing structures will be decommissioned. The University should not be allowed to manage the summit.

Sincerely,

Penny Levin /s/

Penny Levin
Maui

cc BLNR, OHA, Sierra Club
11 INPUT RECEIVED VIA EMAIL

Submissions were received from the following and are reproduced below:

- State of Hawai‘i Department of Health, Wastewater Branch
- United States Department of the Interior, Fish and Wildlife Service
- National Parks Service, National Natural Landmarks Program
- Flores-Case ‘Ohana
- National Science Foundation (identical to submission received via U.S. mail)
- Hanalei Fergerstrom
- County of Hawai‘i Planning Department
- Deborah Ward
October 8, 2021

Mr. Gregory Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
640 North Aohoku Place
Hilo, Hawaii 96720
Email: cmshilo@hawaii.edu

Dear Mr. Chun:

Subject: Public Draft Master Plan for the University of Hawaii Maunakea Lands; E O I Ka Leo
TMKs: (3) 4-4-015:009 and (3) 4-4-015:012

Thank you for allowing us the opportunity to provide comments for the subject draft master plan. It is our understanding that for the Mauna Kea Science Reserve, wastewater generated at each of the astronomy sites will be managed by each facility through permitted individual wastewater treatment systems. Those facilities that continue operation beyond 2033 will be required to properly abandon their existing wastewater treatment system and be replaced with a zero-discharge wastewater system. For Halepohaku, all wastewater will either be routed to other permitted treatment systems or new septic tanks with leach fields or an alternative method permissible by applicable regulations.

The Department of Health, Wastewater Branch has no objections to the proposed master plan as long as the existing and proposed wastewater systems are in compliance with applicable provisions of our Hawaii Administrative Rules (HAR), Chapter 11-62, “Wastewater Systems.”

Please be informed that the proposed wastewater systems for the development may have to include design considerations to address any effects associated with the construction of and/or discharges from the wastewater systems to any public trust, Native Hawaiian resources or the exercise of traditional cultural practices.

Should you have any questions, please call Mr. Mark Tomomitsu of my staff at (808) 586-4294.

Sincerely,

SINA PRUDE, P.E., CHIEF
Wastewater Branch

LM/MST:Imj

c. Ms. Amy Cook, DOH-WW, Hilo office
In Reply Refer To:
01EPIF00-2022-TA-0016

October 15, 2021

Gregory Chun, Ph.D.
Executive Director
University of Hawai‘i at Hilo Center for Maunakea Stewardship
640 North A‘ohōku Place
Hilo, Hawai‘i 96720

Subject: Comments on the Draft Master Plan for University of Hawaiʻi Maunakea Lands, Island and County of Hawaiʻi

Dear Gregory Chun, Ph.D.:

The U.S. Fish and Wildlife Service (Service) received your request for comment on the Draft Master Plan (Plan) for the University of Hawaiʻi (UH) Maunakea Lands: E Ō I Ka Leo on September 13, 2021. The Plan has been developed with input from a wide sample of stakeholders and UH now seeks feedback from the broader community. This letter has been prepared under the authority of, and in accordance with, provisions of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. 1531 et seq.).

Purpose of the Master Plan
The purpose of the Plan is to guide UHs consideration and prioritization of proposed land uses within the UH Maunakea Lands in a manner consistent with UHs mission and purpose, promotes UHs vision for the lands that it manages, and contributes to the achievement of UHs goals and objectives. The Plan is intended to guide:

- The planning, siting, and design of new facilities and improvements.
- Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
- Decisions that UH may be involved in regarding which existing astronomy sites will remain in operation.

We provide the following comments for incorporation in your Plan and further consultation as necessary. Based on the information you provided and pertinent information in our files,
including data compiled by the Hawai‘i Biodiversity and Mapping Project, there are five listed animal species and one listed plant in the immediate vicinity of the project area: The federally endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*), the endangered Maunakea Silversword (*Argyroxyphium sandwicense* subsp. *sandwicense*), the endangered palila (*Loxioideis bailleui*), and palila critical habitat. Additionally, the endangered Hawaiian petrel (*Pterodroma sandwichensis*), the Hawai‘i distinct population segment of the band-rumped storm-petrel (*Oceanodroma castro*), and the threatened Newell’s shearwater (*Puffinus auricularis newelli*) may transit the project area flying to upland breeding colonies.

**Hawaiian hoary bat:** The Hawaiian hoary bat roosts in woody vegetation across all islands and will leave their young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet (ft) or taller are cleared during the pupping season, June 1 through September 15, there is a risk that young bats could inadvertently be harmed or killed, since they are too young to fly or may not move away from disturbance. Additionally, Hawaiian hoary bats forage for insects from as low as 3 ft to higher than 500 ft above the ground and can become entangled in barbed wire used for fencing.

To avoid and minimize impacts to the endangered Hawaiian hoary bat we recommend you incorporate the following applicable measures into your Plan:

- Do not disturb, remove, or trim woody plants greater than 15 ft tall during the bat birthing and pup-rearing season (June 1 through September 15).
- Do not use barbed wire for fencing.

**Maunakea Silversword:** Project activities may affect listed plant species by causing physical damage to plant parts (roots, stems, flowers, fruits, seeds, etc.) as well as impacts to other life requisite features of their habitat which may result in reduction of germination, growth and/or reproduction. Cutting and removal of vegetation surrounding listed plants has the potential to alter microsite conditions (e.g., light, moisture, temperature), damaging or destroying the listed plants and also increasing the risk of invasion by nonnative plants which can result in higher incidence or intensity of fire. Activities such as grazing, use of construction equipment and vehicles, and increased human traffic (i.e., trails, visitation, monitoring), can cause ground disturbance, erosion, and/or soil compaction which decrease absorption of water and nutrients and damage plant root systems and may result in reduced growth and/or mortality of listed plants. Soil disturbance or removal has the potential to negatively impact the soil seed bank of listed plant species if such species are present or historically occurred in the project area.

In order to avoid or minimize potential adverse effects to listed plants that may occur on the proposed project site, we recommend minimizing disturbance outside of existing developed or otherwise modified areas. When disturbance outside existing developed or modified sites is proposed, conduct a botanical survey for listed plant species within the project action area, defined as the area where direct and indirect effects are likely to occur. Surveys should be conducted by a knowledgeable botanist with documented experience in identifying native Hawaiian and Pacific Islands plants, including listed plant species. Botanical surveys should optimally be conducted during the wettest part of the year (typically October to April) when plants and identifying features are more likely to be visible, especially in drier areas. If surveys are conducted outside of the wet season, the Service may assume plant presence.
The boundary of the area occupied by listed plants should be marked with flagging by the surveyor. To avoid or minimize potential adverse effects to listed plants, we recommend adherence to buffer distances for the activities in the Table below. Where disturbed areas do not need to be maintained as an open area, restore disturbed areas using native plants as appropriate for the location. Whenever possible we recommend using native plants for landscaping purposes. The following websites are good resources to use when choosing landscaping plants: Landscape Industry Council of Hawai‘i Native Plant Poster (http://hawaiiscape.wpengine.com/publications/), Native Hawaiian Plants for Landscaping, Conservation, and Reforestation (https://www.ctahr.hawaii.edu/oc/freepubs/pdf/of-30.pdf), and Best Native Plants for Landscapes (https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-40.pdf).

If listed plants occur in a project area, the avoidance buffers are recommended to reduce direct and indirect impacts to listed plants from project activities. However, where project activities will occur within the recommended buffer distances, additional consultation is required. The impacts to the plants of concern within the buffer area may be reduced by placing temporary fencing or other barriers at the boundary of the disturbance, as far from the affected plants as practicable.

The above guidelines apply to areas outside of designated critical habitat. If project activities occur within designated critical habitat unit boundaries, additional consultation is required.

All activities, including site surveys, risk introducing nonnative species into project areas. Specific attention needs to be made to ensure that all equipment, personnel and supplies are properly checked and are free of contamination (weed seeds, organic matter, or other contaminants) before entering project areas. Quarantines and or management activities occurring on specific priority invasive species proximal to project areas need to be considered or adequately addressed. This information can be acquired by contacting local experts such as those on local invasive species committees (island of Hawaiʻi; https://www.biisc.org/).

Table. Recommended buffer distances to minimize and avoid potential adverse impacts to listed plants from activities listed below.

<table>
<thead>
<tr>
<th>Action</th>
<th>Buffer Distance (feet (meters)) - Keep Project Activity This Far Away from Listed Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grasses/Herbs/Shrubs and Terrestrial Orchids</td>
<td></td>
</tr>
<tr>
<td>Walking, hiking, surveys</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Cutting and Removing Vegetation By Hand or Hand Tools (e.g., weeding)</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Mechanical Removal of Individual Plants or Woody</td>
<td>3 ft up to height of removed vegetation (whichever greater)</td>
</tr>
<tr>
<td>Trees and Arboreal Orchids</td>
<td></td>
</tr>
<tr>
<td>Walking, hiking, surveys</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Cutting and Removing Vegetation By Hand or Hand Tools (e.g., weeding)</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Mechanical Removal of Individual Plants or Woody</td>
<td>3 ft up to height of removed vegetation (whichever greater)</td>
</tr>
<tr>
<td>Vegetation (e.g., chainsaw, weed eater)</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td><strong>Removal of Vegetation with Heavy Equipment (e.g., bulldozer, tractor, &quot;bush hog&quot;)</strong></td>
<td>2x width equipment + height of vegetation</td>
</tr>
<tr>
<td><strong>Use of Approved Herbicides (following label)</strong></td>
<td></td>
</tr>
<tr>
<td>Ground-based Spray Application; hand application (no wand applicator; spot treatment)</td>
<td>10 ft (3 m)</td>
</tr>
<tr>
<td>Ground-based Spray Application; manual pump with wand, backpack</td>
<td>50 ft (15 m)</td>
</tr>
<tr>
<td>Ground-based Spray Application; vehicle-mounted tank sprayer</td>
<td>50 ft (15 m)</td>
</tr>
<tr>
<td>Aerial Spray (ball applicator)</td>
<td>250 ft (76 m)</td>
</tr>
<tr>
<td>Aerial Application – herbicide ballistic technology (individual plant treatment)</td>
<td>100 ft (30 m)</td>
</tr>
<tr>
<td>Aerial Spray (boom)</td>
<td>Further consultation required</td>
</tr>
<tr>
<td><strong>Use of Insecticides (pollinators, seed dispersers)</strong></td>
<td>Further consultation required</td>
</tr>
<tr>
<td><strong>Ground/Soil Disturbance/Outplanting/Fencing (Hand tools, e.g., shovel, ’ō‘ō; Small mechanized tools, e.g., auger)</strong></td>
<td>20 ft (6 m)</td>
</tr>
<tr>
<td><strong>Ground/Soil Disturbance (Heavy Equipment)</strong></td>
<td>328 ft (100 m)</td>
</tr>
<tr>
<td><strong>Surface Hardening/Soil compaction</strong></td>
<td>20 ft (6 m)</td>
</tr>
<tr>
<td>Trails (e.g., human, ungulates)</td>
<td>328 ft (100 m)</td>
</tr>
<tr>
<td>Roads/Utility Corridors, Buildings/Structures</td>
<td></td>
</tr>
<tr>
<td><strong>Prescribed Burns</strong></td>
<td>Further consultation required</td>
</tr>
</tbody>
</table>
**Definitions** (Wagner et al. 1999)

**Crown**: The leafy top of a tree.

**Herb**: A plant, either annual, biennial, or perennial, with the non-woody stems dying back to the ground at the end of the growing season.

**Shrub**: A perennial woody plant with usually several to numerous primary stems arising from or relatively near the ground.

**Tree**: A woody perennial that usually has a single trunk

**Hawaiian petrel, Newell’s shearwater, and Hawai‘i distinct population segment of the band-rumped storm petrel**: Hawaiian seabirds may traverse the project area at night during the breeding, nesting and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the project area between September 15 and December 15, in their first flights from their mountain nests to the sea, are particularly vulnerable to light attraction.

To avoid and minimize potential project impacts to seabirds we recommend you incorporate the following applicable measures into your Plan:

- Fully shield all outdoor lights so the bulb can only be seen from below.
- Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.
- Avoid nighttime construction during the seabird fledging period, September 15 through December 15.

**Palila**: Hawaiian forest birds’ current ranges are predominately restricted to montane forests above 3,500 ft in elevation due to habitat loss and threats at lower elevations. Hawaiian forest bird habitat has been lost due to development, agriculture, grazing, wildfire, and spread of invasive habitat-altering species. Forest birds are also affected by mosquito-borne diseases. Mosquitoes are not native to Hawai‘i; their occurrence increases in areas where ungulate presence results in small pools of standing water. Actions such as road construction and development increase human access and result in increased wildfire and invasive species threat. Grazing results in reductions in woody vegetation and increased grass cover, which reduces forest habitat quality and results in increased wildfire risk on the landscape.

Avoid conducting activities within forest bird habitat that:

- Promote the spread or survival of invasive species.
- Increase mosquito populations or stagnant water habitat.
- Increase wildfire threat to montane forest habitats.
- Remove tree cover during the peak breeding season between January 1 and June 30.
**Palila Critical Habitat**: The palila was listed as endangered in 1967 and critical habitat was designated for palila on Maunakea in 1977 (U.S. Fish and Wildlife Service [USFWS] 1977). Palila habitat has been lost due to development, agriculture, grazing, wildfire, and spread of invasive habitat-altering species. An increased risk of accidental wildland fire ignition along the Maunakea access road, where a fire burning under dry, windy conditions could impact palila, listed plants, or palila critical habitat, should be addressed in your Plan.

**Fire**: We recommend you follow the best management practices as they relate to fire outlined in the Maunakea Comprehensive Management Plan (Office of Maunakea Management 2021) and associated sub-plans, and educate contractors about fire prevention. Potential sources of ignition related to vehicle traffic include vehicle accidents, improperly disposed cigarettes and matches, and sparks from automobile catalytic converters on unpaved roads.

**Biosecurity and Invasive Species**: We are attaching our list of Biosecurity Protocols to prevent the introduction and spread of harmful invasive species on the island of Hawai‘i. We encourage you to incorporate the relevant measures into your Plan and include these into all contracts for construction and maintenance projects associated within the scope of the Plan.

The Service recommends incorporating all applicable avoidance and minimization measures into your Plan to avoid and minimize effects on protected species. If you determine the proposed project may affect federally listed species, we recommend you contact our office early in the planning process so that we may assist you with ESA compliance.

Thank you for the opportunity to comment and for participating with us in the protection of our endangered species. If you have any questions, please contact Eldridge Naboa at Eldridge_Naboa@fws.gov or by telephone at 808-284-0037. When referring to this project, please include this reference number: 01EPIF00-2022-TA-0016.

Sincerely,

Acting Island Team Manager
Maui Nui and Hawai‘i Island

Enclosure: Biosecurity Protocol – Hawai‘i Island (July 2018)

**LITERATURE CITED**


The following biosecurity protocol (based on National Park Service, State of Hawai‘i, U.S. Fish and Wildlife, U.S. Geological Survey, and the DOI Office of Native Hawaiian Relations guidance) should be followed when operating on Hawai‘i Island to prevent the introduction of harmful invasive species including frogs, ants, weeds, and fungi into local natural areas (e.g., Hawai‘i Volcanoes National Park, Hakalau Forest National Wildlife Refuge, State of Hawai‘i “Natural Areas”) and areas with native habitat (habitat that is primarily composed of native vegetation), other islands in Hawaiian archipelago, or the U.S. mainland. The protocol also includes suggestions for keeping field staff safe from certain invasive species.

1. All work vehicles, machinery, and equipment should be cleaned, inspected by its user, and found free of mud, dirt, debris and invasive species prior to entry into the natural areas or native habitat.
   a. Vehicles, machinery, and equipment must be thoroughly pressure washed in a designated cleaning area and visibly free of mud, dirt, plant debris, insects, frogs (including frog eggs) and other vertebrate species such as rats, mice and non-vegetative debris. A hot water wash is preferred. Areas of particular concern include bumpers, grills, hood compartments, areas under the battery, wheel wells, undercarriage, cabs, and truck beds (truck beds with accumulated material (intentionally placed or fallen from trees) are prime sites for hitchhikers).
   b. The interior and exterior of vehicles, machinery, and equipment must be free of rubbish and food. The interiors of vehicles and the cabs of machinery must be vacuumed clean. Floor mats shall be sanitized with a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.
   c. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter natural areas or native habitat. Treatment is the responsibility of the equipment or vehicle owner and operator.

2. Little Fire Ants – All work vehicles, machinery, and equipment should be inspected for invasive ants prior to entering the natural areas or native habitat.
   a. A visual inspection for little fire ants should be conducted prior to entry into natural areas or native habitat.
   b. Hygiene is paramount but even the cleanest vehicle can pick up a little fire ant. Place MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon; http://littlefireants.com/Maxforce%20Complete.pdf) into refillable tamper resistant bait stations. An example of a commercially available refillable tamper resistant bait station is the Ant Café Pro (https://www.antcafe.com/). Place a bait station (or stations) in vehicle. Note larger vehicles, such as trucks, may require multiple stations. Monitor bait stations frequently (every week at a minimum) and replace bait as needed. If the station does not have a sticker to identify the contents, apply a sticker listing contents to the station.
   c. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter natural areas or native habitat until it is sanitized and re-tested.
following a resting period. Infested vehicles must be sanitized following recommendations by the Hawaii Ant Lab (http://www.littlefireants.com/) or other ant control expert and in accordance with all State and Federal laws. Treatment is the responsibility of the equipment or vehicle owner.

d. Gravel, building materials, or other equipment such as portable buildings should be baited using MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon; http://littlefireants.com/Maxforce%20Complete.pdf) or AmdroPro (0.73% Hydramethylnon; http://littlefireants.com/Amdro%20Pro.pdf) following label guidance.

e. Storage areas that hold field tools, especially tents, tarps, and clothing should be baited using MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon; http://littlefireants.com/Maxforce%20Complete.pdf) or AmdroPro (0.73% Hydramethylnon; http://littlefireants.com/Amdro%20Pro.pdf) following label guidance.

3. Base yards and staging areas inside and outside areas must be kept free of invasive species.
   a. Base yards and staging areas should be inspected at least weekly for invasive species and any found invasive removed immediately. Pay particular attention to where vehicles are parked overnight, keeping areas within 10-meters of vehicles free of debris. Parking on pavement and not under trees, while not always practical is best.

   b. Project vehicles or equipment stored outside of a base yard or staging area, such as a private residence, should be kept in a pest free area.

4. All cutting tools must be sanitized to prevent the Rapid ‘Ōhi’a Death (ROD) fungus.
   a. Avoid wounding ‘ōhi’a trees and roots with mowers, chainsaws, weed eaters, and other tools. Cut only the minimum amount of trees and branches as approved for the project.

   b. All cutting tools, including machetes, chainsaws, and loppers must be sanitized to remove visible dirt and other contaminants prior to entry into natural areas or areas with native habitat, and when moving to a new project area within the native habitat area. Tools may be sanitized using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution. One minute after sanitizing, you may apply an oil based lubricant to chainsaw chains or other metallic parts to prevent corrosion.

   c. Only dedicated tools and chainsaws should be used to sample known or suspected ROD infected trees.

   d. Vehicles, machinery, and equipment must be cleaned as described in (1) above.

5. Imported firewood, logs, and ‘ōhi’a parts:
   a. ‘Ōhi’a firewood, ‘ōhi’a logs, and ‘ōhi’a parts should not be transported.
6. **For individuals working in the field:**
   a. **Before going into the field,** visually inspect and clean your clothes, boots, pack, radio harness, tools and other personal gear and equipment, for seeds, soil, plant parts, insects, and other debris. A small brush is handy for cleaning boots, equipment and gear. Soles of shoes should be sanitized using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.

   b. **Immediately before leaving the field,** visually inspect and clean your clothes, boots, pack, radio harness, tools, and other personnel gear and equipment, for seeds, soil, plant parts, insects, and other debris. Soles of shoes should be sanitized using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.

   c. **Little fire ants nest in trees.** If you are under a tree and that tree is bumped or somehow stressed, the threat response of the ants is to fall from the leaves and sting the person under the tree. If you are subject to an ant attack, do not panic. The ants are extremely small but their stings are painful so make sure you remove all ants from your body and clothing. The stings cause inch long welts that are itchy and painful, and can last for weeks. Treat stings as you would other insect stings. In some persons stings can produce life threatening reactions. Stocking antihistamine in the first aid kit is a reasonable precaution.

   d. **Rat Lungworm disease** is caused by a parasite that can infect humans who consume raw or undercooked infected snails or slugs or consume raw produce that contains a small infected snail or slug. Infection is rare but can be serious. Symptoms can include severe headache, neck stiffness, low grade fever, nausea, and vomiting anywhere from 1-6 weeks after exposure. The disease is not spread person to person. Anyone who handles snails or slugs should wear gloves and/or wash hands. Eating unwashed produce is discouraged.
From: Jenkins, Laurette Lee <Laurie_Lee_Jenkins@nps.gov>
Date: Mon, Oct 25, 2021 at 7:11 AM
Subject: Draft Master Plan, Mauna Kea National Natural Landmark
To: cmshilo@hawaii.edu <cmshilo@hawaii.edu>

Good morning Mr. Chun,

I recently received your Stakeholder letter requesting input and comments regarding the Public Draft Master Plan for the University of Hawai‘i Maunakea Lands: E Ō I Ka Leo, dated Sept. 10, 2021 with comments due Oct. 26th.

Thank you for reaching out and allowing me the opportunity to provide information about the Mauna Kea National Natural Landmark (NNL) designation. Mauna Kea was designated an NNL in 1972 by Department of Interior Secretary, Rogers C.B. Morton. NNL designations are honorific and NOT regulatory. The NNL Program is administered by the National Park Service (NPS), but most landmarks are NOT units of the NPS. NNLs are designated as outstanding examples of geologic and/or biologic resources. In the case of Maunakea, the NNL significance statement for the landmark reads:

"Few sites possess better credentials to justify their national significance than does Mauna Kea. First, it is the exposed portion of the highest insular mountain in the United States, standing more than 30,000 feet above its submerged base at the bottom of the Pacific. Second, on its summit slopes is found the highest lake in the United States. Thirdly, though located in the tropics, indisputable evidence of glaciations is present above the 11,000-foot level. Additionally, and possibly transcending all of these qualifications, is the fact that Mauna Kea is the most majestic expression of shield volcanism in the Hawaiian Archipelago, if not the world."

Upon looking over the Draft Master Plan, I did not see mention of the Mauna Kea NNL designation. Again, it is an honorific designation recognizing the outstanding natural resources that Maunakea processes. In reaching out to you today, I simply wanted to make the Center for Maunakea Stewardship aware of the NNL designation. I do not have specific comments regarding the Master Plan -- which seems sensitive and protective of the of the Maunakea natural and cultural resources.

I have attached the Mauna Kea Landmark Brief, the NNL Mauna Kea boundary map and our NNL Program At a Glance one-pager that might answer additional questions should you have any.

Kindly,
Laurie Lee Jenkins

Laurie Lee Jenkins
Laurie_Lee_Jenkins@nps.gov
360-305-9187 (work cell)

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The National Natural Landmarks Program recognizes and encourages the conservation of sites that contain outstanding biological and geological resources. Sites are designated by the Secretary of the Interior for their condition, illustrating character, rarity, diversity, and value to science and education. The National Park Service administers the program and works cooperatively with landowners, managers and partners to promote conservation and appreciation of our nation’s natural heritage.
Awaken with *aloha* and truth.

October 26, 2021

FR: E. Kalani Flores, representing the Flores-Case ʻOhana (08ef80@gmail.com)

RE: Written Comments for Draft Master Plan for the University of Hawai‘i Maunakea Lands

INTRODUCTION 2

GENERAL COMMENTS 2

I. UH continues a pattern of not listening 2

II. UH exemplifies unethical cultural appropriation 3

III. UH fails to acknowledge issues with its management 3

IV. UH fails to uphold its statutory and constitutional obligations 4

V. UH fails to be in compliance with its management plans 5

VI. Adverse impacts upon the sacred piko and resources of Mauna a Wākea 14

VII. Adverse impacts upon ancestral akua, kupua, and kupuna 20

VIII. Adverse impacts upon cultural resources and historic sites 25

IX. Adverse impacts upon Kanaka Maoli customary and traditional practices 26

SPECIFIC COMMENTS 29

CONCLUDING REMARKS 31
INTRODUCTION

The Flores-Case ‘Ohana provides the following comments regarding the Draft Master Plan for the University of Hawai‘i Maunakea Lands (“draft plan”). However, due to insufficient time of only 45 days to examine this extensive draft plan and also provide comments, we weren’t able to conduct a comprehensive review and provide a complete compilation of comments. Despite us submitting comments to the University of Hawai‘i (UH) Board of Regents (BOR), Maunakea Management Board (MKMB), and Office of Mauna Kea Management (OMKM) on several occasions pertaining to Mauna a Wākea as well being a petitioner in two contested case hearings pertaining to the Thirty Meter Telescope (TMT), the University of Hawai‘i (UH) failed to contact us and other Kanaka Maoli (aka Native Hawaiian) cultural practitioners during the initial process of drafting this plan several months ago. We were only contacted by email on October 14th at the ‘eleventh hour’ when comments were due on October 26th. This extremely late attempt at contact is perceived more as an afterthought or as a formality to state that consultation was attempted. There are no excuses why we and other cultural practitioners and kia‘i were not contacted earlier when the UH system, governmental agencies, elected officials, astronomy organizations, commercial tour operators, etc. were given the opportunity to review earlier pre-publication versions of this draft plan. Furthermore, the UH President and Board of Regents Chair stated in their opening letter in this draft plan, “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.” These types of false statements in which no concerted effort was actually made results in the loss of confidence and credibility with the UH leadership amongst the community. The UH needs to comprehend that Kanaka Maoli are not just Stakeholders, but are actually “Right Holders” as it pertains to the natural and cultural resources of Mauna a Wākea.

GENERAL COMMENTS

I. UH continues a pattern of not listening

The title for this draft master plan, E Ō I Ka Leo (Listen to the Voice), is in contradiction to how this plan was drafted with the narratives systematically ignoring decades of community and Native Hawaiian concerns and comments regarding the issues surrounding the mismanagement of Mauna a Wākea by the University of Hawai‘i (UH). This same issue was also identified in the Mauna Kea Science Reserve Master Plan (“2000 Master Plan”). Firstly, the voice of the Mauna Kea Observatories is clearly the overriding voice throughout this

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1 See: Appendix A - Summary of Outreach and Consultation
2 The University Of Hawai‘i Commitment To Collaborative Maunakea Stewardship, p.2
draft plan. Whereas, the voices of Kanaka Maoli (Native Hawaiian) cultural practitioners were excluded during the initial process of drafting this plan. Perhaps this draft plan should more accurately be called, *Hoʻokuli I Nā Leo* (Deaf to the Voices).

**II. UH exemplifies unethical cultural appropriation**

This draft plan is a prime example of unethical cultural appropriation and exploitation of Hawaiian culture through the distortion, and misuse of traditional knowledge, cultural expressions, and Hawaiian terms. The Foreword [pp. x-xiv] has taken ʻōlelo noʻeau and clearly distorted the meanings of these traditional sayings outside of their original cultural context. There is an attempt to promote astronomy and further development on Mauna a Wākea through a western worldview cloaked under these Hawaiian sayings. In addition, Hawaiian phrases and terms are peppered throughout this document in an attempt to give an illusion that this is a Hawaiian plan and to make it more palatable to Hawaiians. These displays of misappropriation of Hawaiian cultural elements are disrespectful and are also considered a form of desecration. Likewise, as noted in UH Mānoa’s guidelines, “Cultural appropriation is a form of intellectual plagiarism.” As an institution of higher learning, the UH administration and programs should be held to the same strict ethical standards it expects of their students.

**III. UH fails to acknowledge issues with its management**

In this draft master plan, the UH failed to acknowledge and formally apologize for their role as the lessee of the Mauna Kea lands that has resulted in cumulative impacts upon its resources that have been determined to be substantial, significant, and adverse. Unlike the 2000 Master Plan, this draft plan doesn’t identify and assess past and existing issues connected with UH’s management of Mauna a Wākea. Environmental impact statements previously done for the proposed NASA outrigger project and Thirty Meter Telescope (TMT) have outlined these cumulative impacts. In addition, previous State Audits have been critical of UH’s mismanagement of these public lands. If the UH wants to truly reconcile its past actions, it needs to disclose, accept responsibility, and admit the existence of its past mismanagement actions. This should be followed with a sincere apology to Kanaka Maoli and all those connected to Mauna a Wākea. Furthermore, it’s pertinent that UH acknowledge the history of these lands as being Government Lands of the Kingdom of Hawaiʻi since the time of the Mahele in 1848.

Thorough examination of the UH’s own documents disclose that,

> From a cumulative perspective, the impact of past and present actions on cultural, archaeological, and historic resources is substantial, significant, and adverse...

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3 Ethics, Research Integrity & Cultural Appropriation
(https://kahualike.manoa.hawaii.edu/horizons/publication_ethics.html)
The cumulative impact of past and present actions to geological resources in the astronomy precinct has been substantial, significant, and adverse... (TMT FEIS, p. S-8)

Fostering a future of healing and reconciliation requires the UH leadership to truthfully and respectfully acknowledge the past. It is only through understanding and accepting the wrongs of the past, and the often intergenerational impacts of these wrongs, that UH can make adequate amends for these past impacts and ensure that they are never repeated. Instead of acknowledging and apologizing for such actions, UH plans to continue on with such activities and now has developed a mantra of “coexistence.”

IV. UH fails to uphold its statutory and constitutional obligations

The UH continues to fail their affirmative duty and legal obligations to protect the natural and cultural resources, public land trust, and rights of the public and Kanaka Maoli connected with Mauna a Wākea. The over emphasis of the promotion of astronomy development and activities has overshadowed the protection of the afore-mentioned in this draft plan.

Notwithstanding four state audits and community members and organizations, including Kanaka Maoli, expressing concern and providing testimony dating back to the 1970’s about the adverse impacts and threats to Mauna Kea, the State and the UH have continuously neglected their legal duties resulting in over 50 years of mismanaging this revered and sacred mountain. Instead, they have prioritized astronomical development at the expense of properly caring for Mauna a Wākea’s natural and cultural resources. In addition, they have taken adversary positions and actions against Kanaka Maoli cultural practitioners which have resulted in detrimental impacts upon Kanaka Maoli and their cultural practices and traditions. This plan does very little to change such adverse impacts.

It’s very evident that UH’s role to advance astronomy on Mauna a Wākea, conflicts with its ability to properly manage these environmentally and culturally sensitive resources of a public lands trust. The existing process has been politically driven to push through astronomical development on this majestic mountain by systematically ignoring community and Kanaka Maoli concerns resulting in the overdevelopment of this conservation district. Conclusively, the authority and management of the lands of Mauna a Wākea which are part of the public land trust, also considered government lands of the Kingdom of Hawaiʻi, should be turned over to a Native Hawaiian entity other than the UH which has an inherent conflict of interest.
V. UH fails to be in compliance with its management plans

Before UH approves a master plan for those lands that include the Mauna Kea Science Reserve (MKSR) and the mid-level facilities at Hale Pōhaku, the UH should ensure it’s in compliance with the BLNR approved management plans and conditions of the Conservation District rules. Also, it’s important to maintain compatibility and consistency between this draft plan and previously approved management plans. In addition, this draft plan fails to enforce UH’s compliance with these management plans.

Highlighted below are examples of the UH’s non-compliance with the Mauna Kea Comprehensive Management Plan (CMP), associated sub-plans, and 2000 Master Plan.

1. Firstly, UH/OMKM’s non-compliance with the CMP management actions that are identified as “CMP Monitoring, Evaluating and Updating” is very evident as noted below:

MEU-1: UH/OMKM have failed to inform the public of “results of management activities in a timely manner.”

MEU-2: UH/OMKM have failed to regularly review and update the CMP and sub-plans that were required in order to be in compliance with the rules of the Conservation District. The CMP was submitted to and approved by the BLNR on April 9, 2009. In addition, it’s been over a decade and UH/OMKM have failed to complete the five-year major review of this plan that was due by April 2014 as stipulated in the CMP. Section 7.4.2 of the CMP outlines the requirements and process for monitoring, evaluating, and updating this plan as noted below.

Regular monitoring and evaluation of the CMP is needed to determine if management actions are effective over time and are meeting management needs, and to ensure that the best possible protection is afforded Mauna Kea’s resources.

Monitoring and evaluation of the effectiveness of the CMP should occur annually, and an annual progress report should be prepared. A major review and revision of the CMP should occur every five years, using information contained in the annual reports. Five-year evaluation and revision should include consultation with federal and state agencies and the local community, to inform stakeholders on program progress, and to gather input on changes or additions to management activities. The CMP must also be updated to comply with any requirements or conditions imposed by the BLNR on the CMP upon acceptance of the plan. (CMP at 7-64)

The requirement for UH to conduct a “major review every five years” is further reiterated in the CMP Implementation Plan (CMP IP) (2010) as outlined below:

4.2.2 Five-Year Management Outcome Analysis and CMP Revision The OMKM program should be subjected to a major review every five years, and the CMP should be

Flores-Case ‘Ohana - Draft Master Plan Comments
revised, as necessary. This process should involve input from State and Federal agencies and the public. (CMP IP at 17).

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<td>MEU-2</td>
<td>Conduct regular updates of the CMP that reflect outcomes of the evaluation process, and that incorporate new information about resources.</td>
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<td>MEU-3</td>
<td>Revise and update planning documents, including the master plan, leases, and subleases, so that they will clearly assign roles and responsibilities for managing Mauna Kea and reflect stewardship matters resolved with DLNR.</td>
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 Furthermore, the UH BOR has failed to enforce UH’s compliance with these significant management actions of the CMP even though these actions were identified in OMKM’s Annual Plans that have been compiled since 2010.

2010 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP (pp. B-12, C-12)

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2015 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

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2020 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

Furthermore, the UH BOR has failed to enforce UH’s compliance with these significant management actions of the CMP even though these actions were identified in OMKM’s Annual Plans that have been compiled since 2010.
2. UH has failed to implement and complete several significant components of these management action plans that required immediate implementation. The CMP identified specific management actions in order to protect the natural and cultural resources on Mauna a Wākea.

OMKM was tasked with directly overseeing and implementing the management actions identified in the CMP Implementation Plan (2010). However, there were several significant management actions that were originally listed in the 2009 timeframe as Immediate (1-3 years) and Short-term (4-6 years) that have not yet been implemented and accomplished.

Subsequently, OMKM changed their reporting methods assigned to the progress status definitions. This resulted in having the existing CMP status reports being submitted annually to BLNR for review without any definitive dates listed for the implementation of these management actions that in many cases are considered crucial in the protection of Mauna a Wākea’s natural and cultural resources. In addition, the information included in the CMP status reports have been inaccurate or incomplete at times.

One such example of these incomplete management actions is FLU-2 in which UH was required to develop “land use zones” in the Astronomy Precinct based on updated cultural and natural resource information that would “delineate areas where future land use will not be allowed and areas where future land use will be allowed”. The following description outlines the significance and goal of completing management action FLU-2 Land use zones:

Any potential future observatories will be located inside the Astronomy Precinct. The goal of this process is to refine telescope siting areas defined in the 2000 Master Plan based on updated cultural and natural resource information (see Section 7.1.1 and Section 7.1.2). Land use zones will be developed that will delineate areas where future land use will not be allowed and areas where future land use will be allowed, but where compliance with prerequisite studies or analyses prior to approval of a CDUP, will be required. When assessing proposed infrastructure expansion, additional consideration will be given to the location of current infrastructure and previously disturbed areas (see Section 7.3.1). New land uses should be located close to existing infrastructure or previously disturbed areas, to reduce impacts on undisturbed areas and to minimize unnecessary damage to geological features. As stated in the 2000 Master Plan, all major undeveloped cinder cones and their intervening areas will be protected from future development by astronomical or other interests.
These include the following pu'u: Ala, Hoaka, Kūkahau'ula, Lilīnoe, Māhoe, Mākanaka, Poepoe, Poli'ahu, and Ula. (CMP at 7-57 to 7-58)

This is a prime example of a management action that was initially identified for “Immediate” implementation, but was later changed to “Ongoing.” Later in the BLNR 2015 Annual Report submitted by the OMKM, FLU-2 was still not implemented as required. As noted, “This was originally listed for Immediate implementation. However, this task will require additional data gathered from baseline surveys of the resources.” Then in the BLNR 2020 Annual Report, it clearly exhibits that this management action still wasn’t completed. Instead, there’s only a convoluted comment implying that UH/OMKM doesn’t intend on completing this significant aspect of the CMP.

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### 2010 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

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Flores-Case ‘Ohana - Draft Master Plan Comments
In order to protect the natural and cultural resources on Mauna Kea, UH should implement these incomplete requirements and other significant management actions dating back to 2009 and should incorporate them in this draft plan.

3. **UH has failed to implement and complete the significant CMP/CRMP management action that required regular consultation and engagement with Native Hawaiians to protect their rights and practices associated with Mauna a Wākea.**

UH has drastically failed to engage and consult with the broader Native Hawaiian community beyond Kahu Kū Mauna and the Hawaiian Culture Committee (which is either inactive or has been terminated). Guidance into this matter is outlined in the CMP and CRMP (p. 5-9 to 5-10) as such (emphasis underlined):

**5.3 ON-GOING CONSULTATION WITH THE KAHU KU MAUNA COUNCIL AND THE HAWAIIAN CULTURE COMMITTEE**

Preservation planning recognizes the need to continue the process of consulting with the major stakeholders. A mechanism for accomplishing this goal with the astronomy community already exists in the form of regular meetings with OMKM. Periodic reviews of the CRMP would involve all of the stakeholders. In view of all of the unresolved issues pertaining to cultural practices, it is the Native Hawaiian community that needs to be consulted on a frequent basis. Some of this is presently occurring with the Kahu Kū Mauna Council and the Hawaiian Culture Committee, but it will be broadened to include more of the Hawaiian community. (emphasis added)

Management Actions

It is recommended that UH consult with Native Hawaiian organizations and individuals on existing policies and proposed new policies. Two specific recommendations are presented in Table 5-3.

Table 5.3. Management Actions for On-Going Consultation with Native Hawaiians.

- Develop a mechanism to assure that Kahu Kū Mauna is consulted on individual development projects.
- Provide a list of individuals, families, or organizations who should be consulted when individual development projects are proposed or when other issues arise that may be a concern.

One benefit of compiling a list of organizations and persons that should be consulted is that such a list could accommodate those who are concerned about a
particular place or area but do not wish to disclose its location or the nature of its significance. They could appear on the roster as wanting to be consulted about any planned activity or issue occurring in the general vicinity and then decide if they wish to act on any concerns they have. (emphasis added)

According to the contested case hearing testimony of the OMKM Director, a list of Native Hawaiian individuals, families, organizations and cultural practitioners to be consulted still hadn’t been finalized as of Dec. 2016 despite this action item being identified with the CMP priority of High to Medium. What’s most troubling is that this management action of compiling a list doesn’t take over two decades to finalize. Without such a list, the UH is incapable of consulting and engaging with the broader Native Hawaiian community.

This draft plan fails to identify specific procedures for engaging Kanaka Maoli/Native Hawaiian individuals, families, organizations and cultural practitioners in the consultation process. In fact, the afore-mentioned were explicitly excluded in the consultation process regarding the pre-publication version of this draft plan.

4. UH’s ineffective management and unlawful actions of its own employees and individuals under their jurisdiction have resulted in adverse impacts upon Mauna Kea’s natural and cultural resources. UH personnel and OMKM staff have failed to follow the existing rules and protocols as outlined by the CMP. Even though OMKM has morphed into the Center of Maunakea Stewardship (CMS), this draft plan fails to provide an adequate structure for accountability.

Case-in-point, UH personnel (i.e. OMKM, MKSS, etc.) have been directly involved in the destruction and desecration of cultural resources on Mauna a Wākea. In 2013, the archaeological monitor for the geotechnical boring at the proposed TMT site identified cultural items consisting of “the erection of two small upright boulders and placement of a ti leaf bracelet.” It was also reported that these “two upright stones were later dislodged by OMKM staff.”

During the second contested hearing for CDUP HA-3568, OMKM staff member testified under cross examination that he was the individual identified in this monitoring report who was involved with this incident. He testified further that he had intentionally knocked down an upright stone associated with Native Hawaiian cultural practices that was near the northern boundary of the proposed TMT site on the northern plateau and that he did not consult with Kahu Kū Mauna prior to taking this action. At that time, he was the cultural monitor working on behalf of OMKM at the site. In

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addition, he disclosed that Mauna Kea Rangers remove hoʻokupu and items left on ahu even though they do not have the authority to do so. Also, he verified that he was not very familiar with the rules and policies pertaining to the protection of Native Hawaiian cultural practices and resources even though he was initially hired as the cultural advisor to OMKM in 2012.\(^5\)

In 2015, a Mauna Kea Support Services (MKSS) employee bulldozed an ahu (altar) named Ka Uakoko associated with Native Hawaiian cultural practices without any authorization or consultation with the Kahu Kū Mauna cultural advisory group. As it was reported by Hawai‘i News Now, “They dismantled our altar without the right protocol, without even having a cultural person there to walk them through it the right way -- they just grabbed the bulldozer and tossed it off to the side. So yeah, it's very hurtful,” stated JoJo Henderson. “There's cultural protocols that need to be put into effect. There's administrative protocols and they're not following those either. Everytime the chancellor or the president of the university goes out into the community and say that Hawaiian culture 'means something. It is very important. It is significant'. It obviously is not,” said Tiffnie Kakalia, the Kahu Kū Mauna Vice Chair. Kakalia says this incident is just the latest in a string of failures by the UH to consult with Kahu Kū Mauna. “The fact of the matter is the Hawaiian community is not being heard and not being valued, although it is being said that we are,” said Kakalia.

\(^5\) Wally Ishibashi Testimony. 11/16/16, Vol. 9 at 135-175.
Ka Uakoko ahu before it was bulldozed off the side of the embankment.

These incidents are only two recent examples that have been documented in detail. It is known that other incidents involving the destruction, desecration, or dismantling of cultural resources associated with Native Hawaiian practices have occurred through the actions of UH personnel.

This draft plan should include guidelines and procedures for the conduct of UH staff and personnel as well as astronomy personnel operating within the lands and resources under UH’s management.

5. **UH failed to follow the concepts, objectives, and standards set forth in the 2000 Mauna Kea Science Reserve Master Plan (2000 Master Plan). This draft plan fails to ensure that UH will be in compliance with this new proposed plan.**

The importance of the implementation of design guidelines is referenced in both the 2000 Master Plan and CMP.

It is important to maintain compatibility and consistency of recommendations between the 2000 Master Plan and the CMP, to ensure that identified facility needs and designs are consistent with the overarching management plan put forth in the CMP (see Section 7.2.1).

There are two aspects of facility planning location and design that need to be considered in order to protect cultural and natural resources. Location refers to the siting of facilities,
while design refers to characteristics of the physical structure, and both of these must be
directed at minimizing impacts to resources. Section XI of the 2000 Master Plan provides
design guidelines to direct development for both renovations of existing facilities and
new construction in a manner that would integrate development into the summit
environment. Topics addressed include: facility siting, scale, height and width, color,
surface texture and material, roofs, fences, roadways and parking. (CMP at 7-56)

The proposed siting of the TMT observatory was clearly not in compliance with the Design
Guidelines and criteria stipulated in the 2000 Master Plan (pp. IX 22-23 as referenced below)
and also referenced in the CMP (p 7-56).

5. Minimum visual impact from significant cultural areas. Views from the pu‘u and
archaeological sites will be respected in the siting of future facilities. The location of new
facilities will avoid interference with the visual connections between the major pu‘u and
the shrine complexes.

6. Avoid or minimize views from Waimea, Honoka‘a and Hilo. Sites for proposed new
facilities will maximize the use of the existing topography to shield views from the
downslope communities. Prominent sites along the ridges or pu‘u will not be selected for
new development of astronomy or other research and education facilities.

7. Close to roads and existing infrastructure. Sites for proposed new development will be
selected close to the existing roadways to minimize the amount of disturbance to the
natural terrain. Utilities and communications service to new sites will be extended along
the existing roadway routes to minimize disturbance.

The non-compliance of the Design Guidelines stipulated in the 2000 Master Plan is noted in the
following areas; 5) Due to the proposed placement and the massive size of the TMT observatory
amongst the shrine complexes on the northern plateau, it will definitely interfere with the visual
connections between the major pu‘u such as Pu‘u Kūkahau‘ula and Pu‘u Poliahu and the
hundreds of shrines at this particular elevation. The CDUA and survey reports have failed to
address this impact. 6) Likewise, from Waimea, Honoka‘a, and other areas, views of the TMT
observatory will be another prominent eyesore and ‘pimple’ on this sacred landscape. A large
population of Native Hawaiians as well as other residents and visitors in these areas will be
impacted with this adverse visual impact. 7) Instead of using the existing roads within the SMA
area, this project intends to cut another new road segment and installation of underground
utilities through the side of Pu‘u Kūkahau‘ula, a wēkiu bug habitat, Traditional Cultural
Property, and designated State Historic Property (SIHP #50-10-23-21438).
In addition, it’s very apparent that the use of the aluminum-like finish for the TMT dome did not adhere to the Design Guidelines in the 2000 Master Plan (pp. XI-6) as noted below. If built, it would not blend into the landscape, but would instead be more reflective and visible from distances near and afar.

Surfaces, Textures and Material: Surfaces, textures and material used for construction in the Science Reserve should seek to blend the facility into the landscape. Selection criteria are as follows:

● As much as possible, surfaces should be non-reflective in the visible spectrum to minimize glare and visibility from distant areas.

Furthermore, the failure to follow these design guidelines should have resulted in the TMT project design not being approved if the 2000 Master Plan was actually being followed:

Plans found to be inconsistent with the Master Plan concepts and objectives shall be rejected. Major variations from development standards shall also be rejected. (MP XI-9)

Consequently, UH’s proposed plans for the TMT project should have been rejected as mandated by the 2000 Master Plan and CMP guidelines. Despite these deficiencies and non-compliance issues this project was ‘rubber-stamped’ for approval. This is another example of the lack of any accountability in this review process.

This draft plan eliminated many significant and relevant design guidelines previously outlined in the 2000 Master Plan pertaining to astronomy facilities. As such, many of the specific and detailed design guidelines from the 2000 Master Plan should be reinstated in this draft plan.

VI. Adverse impacts upon the sacred piko and resources of Mauna a Wākea

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon the sacred piko as well as the natural and cultural resources of Mauna a Wākea. This draft plan fails to protect the sacred nature of this piko by stripping all references to this aspect that’s been referenced in various accounts. In fact, the 2000 Master Plan included at least 25 references to this mountain’s sacredness. Whereas, this draft plan reduced it to only one flawed reference as such, “for some the mauna is sacred.” The sacredness of this mountain is well known and documented in several traditional accounts.
Mauna a Wākea is the inoa (name) reverberated in chants and by the ancestral guardians connected to this sacred mountain. In English, it literally means, "Mountain of Wākea." It’s within this name that unfolds the understanding of the significance of this mountain. Wākea (Sky Father) is personified in the atmosphere and heavenly realm that envelopes Papahānaumoku (Mother Earth). As such, this mountain, unlike any other in the Pacific, pierces above the clouds into the realm of Wākea. It is the tallest mountain in the world over 33,000 feet when measured from the ocean floor to its summit. This mountain is also referred to as “Mauna Kea”, “Mauna Kea”, or just “Mauna.”

According to ‘ike kupuna, indigenous knowledge and ancestral insight, the top of Mauna a Wākea is one of the three most sacred and significant places on Hawai‘i Island. It is indeed a sacred piko. It is difficult to explain to those who have forgotten or lack an understanding of why such a place as Mauna a Wākea is sacred. The insight and knowledge of Mauna a Wākea as being kapu (sacred) was known from the remote past of the ancient ones. It is for this reason that amongst the countless ancestors of Kanaka Maoli and numerous ali‘i (chiefly) dynasties that lived in these islands, they never built any large heiau (temples) on the summit in this realm that is considered kapu. This is the reason that none of the Mauna Kea archaeological surveys have ever located a traditional man-made structure on the summit. In the times of our ancestors, prior to structures being constructed, one would consult with individuals such as kahuna kuhikuhi pu‘uone who specialized in protocols associated with the selection of such sites. In addition, consultation and direct communication between intermediaries and those of the ancestral realm associated with those places was an essential and integral part of the process so as not to create a physical and/or spiritual disturbance, disconnection, or imbalance between man and his akua, and between man and his environment. We charge that this process of consultation with those recognized as the ancestral akua, kupua, and kupuna of Mauna a Wākea was not done by the BLNR/DLNR, UH, or any astronomy projects built on the mountain.

There are several references in reports such as the Mauna Kea CMP and 2000 Master Plan acknowledging the sacred attributes of the landscape of Mauna a Wākea. A sampling of references from these reports that substantiate the sacredness of this mountain are copied below:

The physical prominence of Mauna Kea as well as its stationing nearest to the heavens holds a spiritual significance for the Hawaiian people, a significance that can be expressed in likening the mountain to a sacred altar. (CMP, p 1-3)

For some Hawaiians, Mauna Kea is so revered that there is no desire to ascend it, no desire to trespass on what is considered sacred space. Simply viewing the tower, the mountain, from afar, both affirms its presence, and reaffirms the sense of connection with both place and personage. For this reason, many Hawaiians feel that activities on Mauna Kea that lead to visible alterations of the landscape not only have a significant effect on
the mountain itself, but also have a damaging effect on everything and everyone that is physically, genealogically, spiritually, and culturally tied to Mauna Kea. (CMP, p 1-4)

The ancient saying “Mauna Kea kuahiwi ku haʻo i ka mālie” (Mauna Kea is the astonishing mountain that stands in the calm) (Pukui 1983: No. 2147), expresses the universal feeling experienced by all who come in contact with this special place. Standing tall over the Island of Hawaiʻi, Mauna Kea is home to vast physical, natural and cultural resources (Figure I-1). From early adze makers to modern day astronomers, Mauna Kea has long been a special place for work, worship, and reflection. For native Hawaiians, both ancient and modern, the feelings for Mauna Kea go beyond wonder and astonishment, to the recognition of the mountain as a sacred domain. These profound feelings of reverence are expressed in the saying: “O Mauna Kea ko kākou kuahiwi laʻa” (Mauna Kea, our sacred mountain). As with other ethnic cultures throughout the world, early Polynesians believed their highest points of land were the most sacred, and Mauna Kea having the highest mountain top in all of Pacific Polynesia, was considered the most sacred place of all. Standing tall over the island if Hawaiʻi, Mauna Kea was host to early Hawaiʻian traditions which included religious practices, study of the heavens, and tool making in the Keanakākoʻi adze quarry. (2000 Master Plan, p I-1)

The greatest obstacle in the protection of sacred places is a lack of understanding of why these places are significant and so special. It has been forgotten when humans interacted with the natural forces and energies of this Earth. Those who have forgotten are products of their social, educational, and/or religious systems. From the modern mindset, most people can recognize the significance of a church building, appreciate the majestic and sacred architecture of a cathedral or synagogue, or be in awe of ancient pyramids and temple structures. However, it seems more difficult for modern minds to recognize that places in nature which bear no special markings or buildings are also considered sacred.

There are countless mountains around the world considered sacred by cultures past and present. These holy mountains are also keystones to indigenous religions that regarded these areas as the abodes of certain gods, goddesses, deities, divine beings, natural forces, and spirits. In addition, pilgrimages to sacred mountains have been taking place for thousands of years. Whether it is Mauna a Wākea in Hawaiʻi, Mount Fuji in Japan, or Mount Shasta in California, their sacredness has resonated from centuries past.
Mauna a Wākea, Hawaiʻi

Mount Fuji, Japan
(http://images.pictureshunt.com/pics/m/mount_fuji_scenery-12120.jpg)
Mount Shasta, California

Sacred mountains such as Mauna a Wākea, due to their geological composition and extreme height, are a piko (portal) that allows for the transference of energy from one source to another. This understanding is reflected in the traditional Hawaiian concept of the "triple piko" of a person. In essence, the piko on the summit of the mountain is comparable to the piko located on the tops of one’s head at the fontanel. This perspective is also described in the Cultural Anchor of the CMP. [an abbreviated description is recopied below]

Mauna Kea is “ka piko o ka moku,” which means “Mauna Kea is the navel of the island.” Understanding the word piko may give a deeper understanding of why Mauna Kea is the piko, or navel, of the island.

In terms of traditional Hawaiian anatomy, three piko can be found. The fontanel is the piko through which the spirit enters into the body. During infancy, this piko is sometimes “fed” to ensure that the piko becomes firm against spiritual vulnerability. For this reason, the head is a very sacred part of the anatomy of the Hawai‘i native.

The second piko is the navel. This piko is the physical reminder that we descend from a very long line of women. The care of this piko ensured two things: the healthy function of the child and the certification that the child is a product of a particular land base.

The final piko is the genitalia. The genitalia are the physical instruments that enable human life to continue. The health of all piko ensures that the life of the native person will rest on an axis of spirituality, genealogy and progeny.
When we understand the three piko of the human anatomy, we may begin to understand how they manifest in Mauna Kea. Mauna Kea as the fontanel requires a pristine environment free of any spiritual obstructions.

It is this piko on top of the summit where energies and life forces flow from the Creator and higher dimensions, through the realm of Wākea, and then into the Earth. Likewise, the piko on top of one’s head where life force energies from the Creator and higher dimensions flows into one’s body. On 4 March 2011, a photograph was taken from Waimea by Kehaulani Marshall showing a portal opening above the piko of Mauna a Wākea when such an event was occurring.

However, when the piko of the summit is obstructed with the physical excavation of the landscape, asphalt and cement pavement, metal posts implanted in ground, buildings, and construction, it curtails, restricts, or prevents this pure flow of energy. Thus, the development on the summit is causing adverse impacts and significant obstructions to the life force energies that flow into these islands through this piko.

In addition, Mauna a Wākea anchors a very complex multi-dimensional over-fold, and does so through its very conscious geometric grid, complex frequencies, and unique electromagnetic field. The summit is also an area where vortexes of energy occur.

Vortexes are swirling eddies of electrical and magnetic energies. They are a function of the gravity and electromagnetic grids. Based upon the natural energy pattern due to the earth’s...
polarity, vortexes generally spin counterclockwise above the equator and clockwise below it. Vortexes distribute energy outward in what is termed electrical vortexes, and inward in what is termed magnetic vortexes. Some function as both. Mauna a Wākea is an example of an inward and outward vortex-portal complex.

However, the electrical substation, power lines, and high voltage current that runs to the top of the summit for the existing telescopes is interfering and disturbing the electromagnetic fields and vortexes that naturally occur on the mountain.

Also, Mauna a Wākea also resonates in harmonic oscillation with Mount Shasta in California, Mount Fuji in Japan, and other specific mountains around the world. As a result of this energetic connection between these mountains, these other areas are also impacted by what occurs on Mauna a Wākea.

VII. Adverse impacts upon ancestral akua, kupua, and kupuna

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those akua, kupua, and kupuna of Mauna a Wākea. This draft plan fails to protect them from further development.

The term “akua” is being used in this document in a broad cultural context to be inclusive of gods, goddesses, deities, devas, nature spirits, divine beings, and natural forces. The ancestral akua that were recognized by our kupuna are those primarily embodied in the natural forces of nature. Likewise, they could take multiple forms (kinolau) such as animals, plants, and natural elements. Some were identified with names and some were not. The use of akua as a common noun is distinct and different when used as “Akua” or “Ke Akua” in the proper name form which typically refers to the Creator or God. The term “kupua” is used in this document in reference to other entities or supernatural beings who also have the ability to assume different forms.

Individuals with a western mindset and a lack of understanding might choose to dismiss the existence of akua and kupua completely as mythological folklore. While others might choose to dismiss their existence due to personal religious persuasions and/or social upbringings. The Earth, Universe, and Cosmos is teeming with life in many variant forms, forms vastly different from our own. Yet the consciousness inside is of the same Creator, same creative divinity as our own. It is narrow minded to believe that the human physical form is the only form of life.

There are several ancestral akua connected to Mauna a Wākea that have been recounted by our kupuna in their oral traditions and subsequently articulated in literature. Some of these accounts
are referenced in the document, *Mauna Kea - Ka Piko Kaulana O Ka ‘Āina* (2005), prepared by Kepā and Onaona Maly of Kumu Pono Associates, LLC for the OMKM. Also, in several documents, there are various references regarding the ancestral *akua* along with their connections to the sacred landscape on the summit of this mountain as noted below:

As a result of his exhaustive studies, Kepā Maly identified many traditional cultural properties on Mauna Kea. He documented ongoing traditional cultural practices associated with several of these. It is a sacred landscape that provides a connection, genealogically, physically, and spiritually to ancestral realms. The mythical creation of Mauna Kea is part of a Hawaiian cosmology that establishes a relationship between all things animate and inanimate. (CMP, p 1-2)

Native Hawaiian traditions state that ancestral *akua* (gods, goddesses, deities) reside within the mountain summit area. These personages are embodied within the Mauna Kea landscape – they are believed to be physically manifested in earthly form as various pu‘u and as the waters of Waiau. Because these *akua* are connected to the Mauna Kea landscape in Hawaiian genealogies, and because elders and *akua* are revered and looked to for spiritual guidance in Hawaiian culture, Mauna Kea is considered a sacred place. (CMP p 5-3)

The origins of Maunakea and its central place in Hawaiian genealogy and cultural geography are told in mele (poems, chants) and mo‘olelo (stories, traditions). Native Hawaiian traditions state that ancestral *akua* (gods, goddesses, deities) reside within the mountain summit area. Several natural features in the summit region are named for, or associated with, Hawaiian *akua*; these associations indicate the importance of Maunakea as a sacred landscape. Each part of the mountain contributes to the integrity of the overall cultural, historical, and spiritual setting (TMT FEIS, p 3-11).

Members of the Flores-Case ‘Ohana have connected with some of the *akua, kupua,* and *kupuna* of Mauna a Wākea through genealogical ties as well as through customary and traditional practices. Through *‘ike kupuna,* indigenous knowledge and ancestral insight, the following information and understanding were provided about some of those affiliated with this sacred mountain.

(Guardian - name not disclosed at this time), a guardian force of nature from the depths of Mauna a Wākea came forth to provide the following insight. [Note: It was felt as though it was a male presence and so his gender is referenced as such. Such beings, in truth are often not of either gender, but rather espouse certain frequencial attributes that humans define as male or female.] In a ceremony conducted on the summit on 8 May 2011, the presence of this guardian was personally witnessed. He came from the very depths of the mountain, way below the crust of the ocean floor, one who carries the ancient knowledge. He stated, “I come from the depths, the ancient *pōhaku.*” He is the guardian of the bottom, deep below in the earth. He was filled with joy that we were there to listen. However, he was also filled with sadness because the
observatories on her (the mountain’s) shoulders and breasts were causing such desecration. He was aware of her feelings because they are all connected. Other guardians on the mountain have been awakened and are on alert regarding proposed development. They are all in full communication with the Creator who can see all things through Wākea.

He declared that those who are planning to cause further desecration on Mauna a Wākea are "ignorant and lost." In addition, he explicitly stated a message to them, "You are responsible for what you do not know and you will be held responsible." He also mentioned that everyone is accountable for their own actions. Furthermore, he emphasized that, "You don’t know what is coming when you do this, you have been warned." He is the one who has the power to shake the earth. Such a decision is not his, but would come from the Creator if needed to restore balance on the mountain.

(Guardian – rough English translation of name, “The one who sees far into the heavens”), an ancestral guardian connected to a pōhaku and previously unidentified site within the vicinity of the proposed TMT site. This guardian explained the significance of many of the sites on the northern plateau as they are interconnected like a large star map. Individuals from certain family lines were guided to come up to the mountain during certain times of the year to reestablish, construct, align, activate, and/or maintain these sites. The TMT construction activities of excavating, grading, and rock-crushing in the area have already caused a great disturbance amongst these sites and guardians. This ancestral guardian also reiterated some of the significant impacts that would result from the building of this telescope and the consequences of attempting to pursue this project on this sacred landscape.

Poliahu, “ka wahine i ke kapa hau” (the woman in the mantle of snow), is at times referred to as an akua wahine. She is a part of Mauna a Wākea and creates the rain, snow, hail, and sleet on this mountain. She serves as caretaker and guardian for the mountain and grants permission to certain spirits coming to the mountain. Poliahu has two attendants assisting her, Lilinoe and Lihau. She is a part of the landscape features with a highly evolved consciousness. Both oral and written Hawaiian traditional accounts have documented her connection to Mauna a Wākea. We have been present at times when she has shared her concerns about the existing and proposed further desecration on the mountain. She has explicitly remarked that she does not want the existing and any new observatories on this sacred mountain. They are blocking the piko on the summit. If she is dislocated due to the new telescope, it might create new problems and affect the weather patterns on the mountain as well as other areas on the island.
Mo‘oinanea, mo‘o wahine and guardian of Lake Waiau, is at times referred to as a kupua. She is described in several traditional accounts and has genealogical ties to the Mauna a Wākea. Firstly, it is difficult to explain or define who Mo‘oinanea is for those who may lack an understanding. The existence of her as a mo‘o wahine goes beyond anyone’s personal belief, cultural attributes, or religious persuasion. We contend that just because other individuals are not able grasp this understanding, do not easily dismiss Mo‘oinanea’s existence on Mauna a Wākea. Mo‘oinanea is a revered and significant figure in both oral and written Hawaiian traditional accounts that have documented her connection to Mauna a Wākea. She is able to communicate with individuals who have the cultural sensitivity and ‘gift’ to see, hear, and interact with her.

There are numerous traditional and family accounts describing the episodes, sightings, and interactions with mo‘o in these islands of Hawai‘i. They are often known to reside in freshwater tributaries, ponds, coastal areas, forests, and mountain zones. Their presence is not only documented in Hawai‘i, but their existence has been documented throughout the ages and by cultures around the world. These benevolent and fully conscious beings exist, and are as much a part of our Earth as humanity. They possess supreme divine intelligence and are extremely advanced. They are protectors of humanity and of the planet and are often closely aligned to the earth's electromagnetic and crystalline energies and fresh waters. These mo‘o have been on the Earth since the beginning. They are indeed physical. They exist primarily in a higher parallel dimension, but do also bodily exist in our physical world. They do reproduce, and the ones on our planet in the present, were all spawned and birthed on the earth. Likewise, they do have physical life spans and also have their own hierarchy and distinct genealogies.
We have been present at times when Moʻoinanea has shared her personal accounts about herself and her family as well as described the type of cultural traditions our *kupuna* of old practiced on the Mauna a Wākea including pilgrimages to the top of the mountain. In addition, she has expressed her concerns about the existing observatories and proposed further desecration on the mountain. She has shared that the existing observatories have created obstructions and hazards for those who reside on Mauna a Wākea. Likewise, the proposed new observatory will adversely impact Moʻoinanea and others who dwell on the summit. When these guardians and caretakers of the natural elements on Mauna a Wākea are negatively impacted by human’s actions, it will also impact the natural elements that are integrally connected to them. Consequently, these actions will also impact us as humans as the natural elements and environment start to shift and change. There is an imbalance and disharmony that has been created on this sacred *piko*.

![Moʻoinanea by Diana LaRose](image)

*Kupuna*, ancestors, including *aliʻi* of the past, are also on Mauna a Wākea serving in different capacities or having come to this mountain under different circumstances. Some serve as
guardians of various sites and places on the mountain. Others had ventured up to this sacred mountain during various different periods of time. Members of the Flores-Case ‘Ohana have encountered and engaged with these kupuna on several occasions through their cultural practices, ceremonies, and visits on the mountain. One such group of kupuna fled up towards the top of this sacred mountain after western contact (circa mid-1800’s) when foreign diseases and epidemics swept through the villages along the Kona coast. Many of them were being persecuted by foreigners, particularly missionaries, during this time when many were dying by the hundreds. So for those who could, they fled up to the mountain to die in the realm closer to Wākea. One kupuna recounted this account as she was the last one alive amongst her family and others in her group. She sang to them as they each had passed away until she was the very last one to pass. There were literally hundreds of them who had passed during these times and their remains are scattered around the mountain depending upon where they ended up.

VIII. Adverse impacts upon cultural resources and historic sites

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those cultural resources and historic sites connected to Kanaka Maoli and their practices. This draft plan fails to protect these resources and sites from further development.

The UH failed to follow the CMP and Cultural Resources Management Plan (CRMP), a sub-plan of the CMP, which provided OMKM with the tools it needed to meet its cultural resource management responsibilities. It begins by identifying key management objectives and goals that can be used in making budget decisions, assessing staffing needs, and setting up contracts for specialized services.

Likewise, UH failed to follow the major objectives of the 2000 Master Plan including, but not limited to those noted below:

- promoting a greater understanding of the rich cultural heritage of Mauna Kea;
- preserving and managing cultural resources in a sustainable manner so that future generations will be able share in and contribute to a better understanding of the historic properties that exist in the summit region, which is of major cultural significance to Hawaiians;
- maintaining opportunities for Native Hawaiians to engage in cultural and religious practices; and
- preserving the cultural landscape for the benefit of cultural practitioners, researchers, recreationalists, and other users.
Archaeologists contracted by the UH and astronomy projects to conduct archaeological inventory surveys and reports on Mauna a Wākea have failed to consult directly with cultural practitioners. As a result, these surveys have often misidentified historic sites, misinterpreted cultural practices, distorted Kanaka Maoli knowledge, and excluded traditional cultural properties. Furthermore, these surveys and reports tend to regurgitate information in past reports that were at times incomplete or inaccurate.

In addition, the State Historic Preservation Division has historically failed to protect the cultural resources and historic sites on Mauna a Wākea and have failed to consult with cultural practitioners during their reviews of these inventory surveys and reports.

In 1997, SHPD instituted a process of recording locations termed “find spots,” which are cultural resources that are either obviously modern features or features that cannot be classified with any level of confidence as historic sites because of their uncertain age and function. This action has put the status and protection of many actual historic and cultural sites in limbo.

Also, both BLNR/DLNR and UH failed to complete the CMP management action CR-2 to finalize the application of designating Mauna Kea as a Traditional Cultural Property (TCP) under the National and State Historic Registers of Historic Places. The entire mountain region of Mauna Kea from approximately the 6,000 foot elevation to the summit, including the Mauna Kea Science Reserve, was identified in the Cultural Impact Assessment [CIA] Study (1999) as a potential TCP.

IX. Adverse impacts upon Kanaka Maoli customary and traditional practices

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon cultural sites and traditional and customary Kanaka Maoli cultural, spiritual, and religious practices. This draft plan fails to make commitments to protect these practices.

The UH fails to make any actual commitments in this draft plan to protect Kanaka Maoli practices and rights associated with Mauna a Wākea that are constitutionally protected.6 Instead, references in this draft plan are reduced to just “understanding” and “respecting” Native Hawaiian practices. Such practices are directly connected to the cultural sites and landscape of Mauna a Wākea which is further affirmed in the 2000 Master Plan:

6 See: Hawaii State Constitution, Article XII, Section 7
All aspects of Hawaiian life were steeped in ritual. For the Hawaiian people, spiritual beliefs, cultural practices and all facets of daily life were intricately bound to the natural landscape of the islands. (p. V-2)

Thus, the destruction and desecration of cultural sites and the landscape, directly diminishes or extinguishes the associated practices. Cultural practitioners have been literally pushed off the summit (13,290 ft./4,050 m. elevation) of Mauna a Wākea as the result of the existing astronomy development. The once open space and view corridors on Kūkahau’ula have been visually impaired by the existing telescopes and observatories. A cultural practitioner’s view planes and vantage points are blocked by several of these imposing structures. In addition, the constant noise and buzzing sounds from the electrical components of these observatories have impaired the once serene and peaceful environment.

Likewise, the proposed TMT or another similar project if built would forcefully push cultural practitioners even further below the 11,000 ft. elevation level on the northern plateau to find an unobstructed view and undisturbed area on this side of Mauna a Wākea as shown in the rendering below.
Furthermore, the TMT project proposes to be built in an undeveloped area amongst the hundreds of the documented and undocumented ahu (shrines) and cultural sites. The concentration and placement of these sites on this northern plateau was not randomly done by our kupuna. They were erected and established with specific intentions. Many of these ahu are interconnected similar to a star map. Embedded within these ahu and stones is ‘ike kupuna and ancestral knowledge along with ancestral guardians. As such, construction of the TMT or any other observatory in this vicinity would sever our past, present, and future generational connections with the ‘ike kupuna and ancestral knowledge implanted at these sites. With the understanding that many of these sites serve as depositories of ancient wisdom as well as multi-dimensional portals, the massive extent of destruction proposed in this culturally sensitive landscape would also adversely impact our customary and traditional practices that are still connected to these sites. Once this landscape is excavated by the proposed TMT construction, it can never be repaired and restored. Many of these sites are interconnected and the detrimental impact on those in the vicinity of the proposed TMT site would also negatively impact the other sites and ancestral guardians connected to them.

On the northern plateau, many of the sites have both visual and energetic alignments with each other as well as with other noted natural features such as the surrounding pu’u. Due to the massive height and size of the TMT observatory, if built it would cause significant visual,
physical, and energetic obstructions amongst these sites as well as adversely impact Kanaka Maoli in a similar way.

Other detriments to Kanaka Maoli practices on Mauna a Wākea was the extent and manner in which administrative rules and policies were developed by the UH to further curtail, extinguish, and criminalize such practices. These rules and policies were adopted with a ‘rubber-stamped’ process for approval and were developed without adequate consultation with the Native Hawaiian community, Hawaiian organizations, and cultural practitioners. Furthermore, when comments were provided at public meetings, they were systematically ignored.

As of this date, UH has failed to conduct any updated and comprehensive consultations with cultural practitioners associated with Mauna a Wākea. Furthermore, the last compilation of information and interviews with Kanaka Maoli was done over 16 years ago between 1998-2005 by Kepā Maly. These were included in reports contracted by the UH. Subsequent reports have only regurgitated outdated information from these earlier accounts.

**SPECIFIC COMMENTS**

These are limited specific comments regarding this draft plan due insufficient time provided for an adequate review:

- Developing a 20 year plan is both impractical and unrealistic during these rapidly changing times. Have we not learned anything from the COVID-19 pandemic? This draft plan should be done for a period of only 10 years or only until 2033 when UH’s master lease expires. Due to uncertainties and unknown status after 2033, a new master plan should NOT be developed beyond this point.

- The draft plan fails to outline the carrying capacity of astronomy development on Mauna a Wākea that would reverse the substantial, significant, and adverse cumulative impacts upon its resources. There is a lack of criteria for determining the amount of astronomy facilities that should remain.

- The draft plan fails to clearly outline “land use zones” in the Astronomy Precinct based on updated cultural and natural resource information that would “delineate areas where future land use will not be allowed and areas where future land use will be allowed”. (See: CMP management action item FLU-2 Land use zones)

- Instead of increasing activities on the Mauna, including multidisciplinary educational activities at Hale Pōhaku, it should look at reducing activities by directing them to the ʻImiloa Astronomy Center (formerly Mauna Kea Astronomy Education Center). That’s
why nearly $30 million of taxpayers’ funds was used to construct this facility on the UH at Hilo campus in the first place. It was to divert the visitors here and reduce their impact on the mountain as well as making educational experiences more accessible to students. Likewise, the proposed UH Educational Telescope should be located on the UH at Hilo campus or grounds of the ‘Imiloa Astronomy Center so that’s more accessible to students, visitors, and the community and so that it would not create any further adverse impacts on Mauna a Wākea.

● It isn’t clearly articulated who is accountable for the implementation of this plan. Also, it lacks an outline for grievance procedures for issues that may arise.

● The draft plan fails to allow parking presently utilized by cultural practitioners in other areas outside of identified Parking Areas 1-3. There needs to be a distinction between the parking for the general public parking/visitors and cultural practitioners. Cultural practitioners and local residents should not be prohibited from parking outside of Parking Areas 1-3 particularly for cultural practices, hunting, and/or recreational activities. Local families should be allowed to park out of Parking Areas 1-3 particularly when participating in recreational activities associated with snowfalls. Instead, visitors with rental cars should be instructed to utilize Parking Areas 1-3. The plan should also designate specific parking areas for astronomy personnel.

● The draft plan is missing an accurate and enlarged map delineating the boundaries of parcels (including metes and bounds) associated with the subleases and other uses of the UH operated astronomy facilities (Sites 7 and 9).

● The hardening of trails should be avoided to prevent further adverse impacts.

● The plan should include an electromagnetic field (EMF) analysis exhibiting the peak and low periods of usage for the utilities lines and astronomy facilities as a baseline study.

● Specific information concerning recreational, commercial, and astronomy activities are addressed in subsections 2.4.1 through 2.4.3. However, it lacks any reference to cultural activities.

● The domes and shutter of telescopes should NOT have a reflective aluminum-like coating in order to reduce the adverse visual impacts. As noted in the 2000 Master Plan, “As much as possible, surfaces should be non-reflective in the visible spectrum to minimize glare and visibility from distant areas.”
There should be definitive height limits of any proposed new or existing facilities on the summit. The use of views from only Hilo and Waimea fails to account for adverse visual impacts when on the summit or near vicinity. There should also be sketches of astronomy facilities from benchmark locations from noted places on the summit.

Stakeholders, including cultural practitioners and members of the public, should be provided an opportunity to provide input on proposals in the review flowcharts especially after Step 3 in Type B and C proposals.

The proposal to pave the roughly 0.5-mile unpaved portion of the Mauna Kea Access Loop Road from Astronomy Site 12 (SMA) past Astronomy Site 1 (Subaru) to Astronomy Site 3 (Keck II) would cause further adverse impacts to this puʻu (and TCP and historic site) as well as to the wekiu habitat of this area. As such, it should NOT be paved or widened. In addition, retiring the older, southern, switchback portion of the Mauna Kea Access Summit Area Loop Road should also not occur.

Existing facilities in the MKSR and Hale Pōhaku should be required to convert to zero-discharge wastewater systems immediately instead of waiting until 2033.

UH should be negotiating terms for fair market value of astronomy facilities for the remaining years of the existing sub-leases.

**CONCLUDING REMARKS**

Members of the Flores-Case ‘Ohana have participated at all levels of the public review process pertaining to Mauna a Wākea such as attending board meetings and hearings, submitting testimony, entering into contested case hearings, and filing legal appeals. Based upon our personal experience, it's very evident that the State (inclusive of the Governor, Attorney General Office, BLNR, DLNR, UH, BOR, OMKM, CMS, their contracted law firms, hearing officers, other agencies and individuals) have taken very adversary positions and actions against Kanaka Maoli cultural practitioners which have resulted in detrimental impacts upon our cultural practices and traditions associated with Mauna a Wākea. Likewise, the State has systematically ignored community and Kanaka Maoli concerns dating back to the 1970’s regarding the overdevelopment of the environmentally and culturally sensitive landscape of this sacred mountain.

The written comments presented in this document highlight significant deficiencies and lack of accountability in this review process. In addition, oral comments were also presented on October 21st. Comments put forth are specific to the items presented and were not intended as an
assessment of all aspects of the draft master plan as there was insufficient time and resources to do so. Other parts of this draft plan that aren’t commented upon does not constitute an endorsement or agreement with these sections. We reserve the right to further comment on this draft plan in the future. These comments are submitted on behalf of the Flores-Case ‘Ohana.

The true aspect of stewardship entrusted to the UH for our precious and public lands in conservation districts is to ensure that these significant areas are acknowledged, preserved for present and future generations, and not systematically destroyed. In essence, the astronomy development on the summit of Mauna a Wākea has been conducted as a commercial enterprise under the guise of science, educational, and economic opportunities that has resulted in the cumulative impacts upon the natural and cultural resources being substantial, significant, and adverse due to over 50 years of mismanagement.

Everyone is responsible and accountable for their intentions and their actions in the wao akua, this sacred space known to our kupuna as Mauna a Wākea. On this mauna, one must interact in a manner that is pono, upright in the presence of the ancestral connection that binds us through space and time to teachings, traditions and lifeways that have continued because of the kuleana that has been passed down from one generation to the next.

It is important to remember that many peoples, including Kanaka Maoli, have a reverential relationship with the living Earth as our 'Mother' or 'Grandmother'. The cultural perspective of mālama ʻāina and aloha ʻāina, to care for the land and nature with sincere love and respect, is at the heart of Kanaka Maoli cultural traditions. For those who are listening, what is our ʻāina trying to tell us during these times of change?

Kanaka Maoli and their allies throughout Hawai‘i and the world have risen like a mighty wave and are committed to protecting their beloved Mauna a Wākea from further desecration and destruction. May the following links to documented experiences assist all in understanding the Kanaka Maoli’s deep connection to their sacred mountain.

Like a Mighty Wave; Maunakea: Sacred Mountain, Sacred Conduct; We Are Mauna Kea Sacred Mountain: Mauna Kea; Standing Above the Clouds; Mauna Kea – Temple Under Siege;

In conclusion, this draft plan fails to restore lōkahi (harmony/balance) on Mauna a Wākea. It’s very evident that the UH is incapable of properly managing these culturally and environmentally sensitive lands of Mauna a Wākea even with this proposed plan. As such, the appropriate action would be to transfer the management of these lands to a non-governmental Native Hawaiian entity.
I ka Piko o ke Aloha
The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.
4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,

Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
Regarding: Public Draft Master Plan for the University of Hawai‘i Maunakea Lands

The University of Hawaii continues to make plans for the Mauna Kea. Working from a lease obtained through the Department of Land and Natural Resources, State of Hawaii. Those lands have previously been a part of the Ceded Lands Trust as defined in the Admissions Act section 5f. Those lands are part of those lands Ceded to the United States by the Republic of Hawaii who did not hold lawful title to those properties as those lands were/are the stolen properties of the Hawaiian Kingdom’s Crown and Government who in fact holds onto the lawful title to subject properties.

The State Of Hawaii claims that those lands termed Crown and Government were Ceded to them by the United States when Hawaii was admitted into the Union of States called the United States.

There is no treaty of annexation between the United States and the Hawaiian Kingdom. The only way a county like the United States can lawfully annex a foreign County like the Hawaiian Kingdom it must be done through a Treaty between the two contracting parties….the United States and the Hawaiian Kingdom.

The Hawaiian Kingdom was an internationally recognized Independent Nation State on the same level as the United States, Russia, China, France, Spain, etc. It remains a question…by what law in the Constitution of the United State or internationally was used to annex Hawaii, a Foreign Internationally Recognized Independent Nation State.

It is because of these foundations of international Law were never met nor could ever be met. The Hawaiian Kingdom Continues to exist as an independent Nation State covering the entire Hawaiian Archipelago.

The United State of American still has no lawful authority to assert it’s jurisdiction within the foreign Independent Nation State of the Hawaiian Kingdom. Therefore the so called annexation of Hawaii and subsequent State of Hawaii and it’s agencies remain moot. Therefore any action such as exhibited by the State of Hawaii
and it agencies is done with complete knowledge of the illegal nature of it entire existence and continues with complete knowledge that it is actively engaged in violation of international Treaties and remains complicate in active participation in violations of International laws of Nations and in direct conflict with the International treaties for the protection of Indigenous peoples, their territories, the customs, their resources and rights.

So the short of it is…Na Kupuna Moku O Keawe acting on behalf of the Hawaiian Kingdom, it Heirs, Government must reject the new proposals regarding the Sacred Temple of Mauna Kea…the Piko of the Hawaiian Kingdom.

Signed at 11:58pm October 26th, 2021

// Hanalei Fergerstrom, spokesperson
Na Kupuna Moku O Keawe
October 27, 2021

Gregory Chun, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship
640 North Aʻohōkū Place
Hilo Hawai‘i 96720
(808) 933-0734
cmshilo@hawaii.edu

University of Hawai‘i
Government Relations Office
Administrative Services Building 1, Room 101,
2442 Campus Road
Honolulu, HI 96822

Dear Mr. Chun,

SUBJECT: County of Hawai‘i Planning Department (PD) Response to Request for Comments on the University of Hawai‘i at Hilo’s (Center for Maunakea Stewardship) Public Draft Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Ka Leo.

File No: PL-INT-2021-000445
TMK: 4-4-015: 009; 4-4-015: 012; and portion 4-4-015: 012 (roadway easement), Ka‘ohe, Hāmākua, Hawai‘i.

This letter is in response to a request by your office dated September 12, 2021, soliciting comments from stakeholders on the subject draft Master Plan. The subject TMKs are within the State of Hawai‘i’s Conservation District and as such are subject to State Conservation District land use permitting under Hawai‘i Revised Statute (HRS) §183C and Hawai‘i Administrative Rules (HAR) §13-5. Section 2.1 of the proposed Plan says that it is intended to guide:
1. The planning, siting, and design of new facilities and improvements.
2. Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
3. Decisions that UH may be involved in regarding which existing astronomy sites will remain operational.

While these lands are not subject to Hawai‘i County zoning and permitting, the PD is a stakeholder based on HRS §226 The Hawai‘i Planning Act; thereby, we offer the following comments for consideration:

A. Present the draft Master Plan to the County’s Cultural Resources Commission (CRC) and Request their Comments. The CRC is made up of Hawai‘i Island community members possessing various expertise in cultural–historic properties and matters. Amongst other things, the duty of this body is to “advise and assist federal, state and county government agencies in carrying out their historic preservation responsibilities” (Commission Rule 1-6).

B. Provide more Details for Future Halepōhaku Development. In Section 3.1.2.1 of the proposed Plan, it states that the Department of Land and Natural Resources (DLNR) requested that “new disturbances and developments at Halepōhaku be avoided”. Therefore, we recommend that as much as possible, potential new development projects for the Halepōhaku area be better detailed, vetted, and made available for further comment by public and governmental stakeholders prior to finalization of this Master Plan.

C. Provide more Details for Proposed Facilities to Manage Access. Sections 5.3 of the proposed Plan proposes managing vehicle access above Halepōhaku in such ways as charging fees for entrance and parking, mandating public access by shuttle, and capping the number of vehicles to a certain number during peak visiting hours. Prior to finalization of this Master Plan, we suggest providing more details on the number of private vehicles granted access at a given time. As well as provide clarity that the access management plan is equitable to all parties (residence, non-residence, astronomers, cultural practitioners, etc.) who wish to gain access to Maunakea Lands.

Thank you for this opportunity to comment on this draft Master Plan. Should you have any questions regarding this comment letter, please contact Kamuela Plunkett at kamuela.plunkett@hawaiicounty.gov.

Sincerely,

[Signature]

Zendo Kern
Zendo Kern (Oct 27, 2021 15:49 HST)
ZENDO KERN
Planning Director
October 26, 2021

To: University of Hawai‘i,
Government Relations Office,
Administrative Services Building 1, Room 101,
2442 Campus Road, Honolulu, HI 96822

Re: Comments on UH Master Plan 2021

FOUNDATIONS

Page 1-8
Strategy 4. Establishment of only those new facilities that “(iii) would greatly benefit from Maunakea’s unique cultural landscape or unique natural resources” is ironic. The unique cultural landscape and unique natural resources would not, by their very definition, benefit from the construction of new facilities, and conversely, the new facilities would be benefiting from the same natural resources that are always cited for every facility: clear skies, relatively stable atmosphere at elevation, low light pollution.

Strategy 8. “Decommissioning a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033” does not address the lease requirements that the Mauna Kea Science Reserve and the so-called Astronomy Precinct be restored to its original condition by that date. The number of telescopes that UH would like to maintain in the summit region is irrelevant at that date.

Strategy 10. The premise that facilitation of development of Astronomy Site 13 is fundamentally flawed. Site 13 (Area E) should not be developed. The existing footprint of industrial astronomy on the Conservation District and Historic District should not be expanded, and measures to reduce the number of telescopes should not be tied to the development of the TMT.

The promoters of the TMT project were warned at the outset, in the Keystone Report that they commissioned, that the community was not in support of further development, and the hurdles could be insurmountable. They decided not to act at the behest of those who requested early consultation with cultural religious, lineal and traditional practitioners through the NEPA Section 106 process. The promoters of TMT have admitted that the funding to build and maintain such a facility are insufficient, the partners have posted no bond to assure the taxpaying residents of Hawaii will not bear the cost of dismantling or decommissioning the facility. Despite hundreds of thousands of signatories on a petition to stop the TMT, and thousands subjecting themselves to physical risk and prosecution, the promoters persist without the support of the rightful owners and beneficiaries of the land they plan to desecrate.

Strategy 15. The conversion of all wastewater facilities in the MKSR to zero discharge is long overdue and should have been addressed at the outset of the General Lease, not sixty years after the fact.

2.1 PURPOSE OF THE MASTER PLAN (Page 2-1)
The General Lease under which the University operates ENDS in 2033, and requires site restoration. The statement that the provisions of this proposed Master Plan

- “Are consistent with commitments UH has made regarding facility siting, decommissioning, and other matters, and comply with the provisions of existing permits, leases, and subleases that the DLNR and UH have granted”

is materially untrue. The statements in this plan presuppose a lease extension, as noted in footnote 11. The false assumption is maintained further discussion:

“2.4.3 Astronomy Facility Decommissioning and Site Restoration in the Plans

As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR. This Master Plan addresses how astronomy facilities that will continue beyond the end of 2033 will be identified (Section 4.3.2.2 and Appendix D); those facilities that will not continue beyond the end of 2033 will need to be decommissioned before the end of 2033. The CMP provides for the site decommissioning and restoration process to be followed once an astronomical facility decides to cease operation. Specific steps related to decommissioning a facility and the restoration of the astronomy site on which it was erected, if that is the path selected, are outlined in the CMP.

The DLNR/BLNR, (not UH or the astronomical facility), will determine in consultation with the trust beneficiaries the future of the crown and government land for which it holds the trust beyond the termination of the lease.

Signed,

Deborah Ward
P.O. Box 918
Kurtistown HI 96760
808-769-2403
cordylinecolor@gmail.com
12 SUMMARY OF INPUT RECEIVED VIA TOLL-FREE HOTLINE

The following are not transcripts of the messages recorded on the toll-free hotline voicemail. They are summaries of the messages left and may not capture word-for-word what the commentor spoke due to recording quality, background noise, and other factors. Similarly, translations of olelo Hawai‘i are approximate.
Submittal Number: 1
Date submitted: 9/13/2021
Comment: Yes good morning this is Robert Fowler. I'm calling regarding the Maunakea project that is starting up and I would like to leave my comments regarding the TMT 30M telescope that I have been contacting Gov. Ige for the past seven years to try and push this through but he ignores my comments and maybe this will help, talking to you people. I am a retired geologist and I'm very concerned about having one of the largest telescopes put on our island and not some place else. This would be a boon for Hawaii and for everyone else concerned and thank you very much my name is Robert Fowler F-O-W-L-E-R. Contact number X. I tried to leave a message using my Gmail but it said that it was already taken or already registered or something so I'm not sure what that was about but my email is X. Okay thank you for listening. Bye."

Submittal Number: 2
Date submitted: 9/13/2021
Comment: My name is Andrea Alex time Andrea Pete(?) [email address] and this is not this is a phone document telephone document. I'm thinking that having read the information about the ambivalent feelings that Greg Chun of the University has said about whether it's going to be built or not for the TMT on Maunakea. You should definitely consider that to be the final conclusion really of all this because so much of it does not depend on just University of Hawaii. The lack of scientific support in the world to build when some Hawaiians do not want it built there is important that people will boycott it and you have to think of that now at the beginning not that's really the beginning but you know where we are now and what we have to face in the future. They should definitely lower the amount of old telescopes up there now by the five that have been promised to be lowered by for many years and then also just consider that it's not going to be built TMT on this particular mountain and that would be best. The disrespect shown indigenous community for so many years have caused us, the lack of payment of the road, for the road to get there that's another one that has not been done. Promises to take away the other telescopes have not been done. Enough already. Time to stop this. Bye."

Submittal Number: 3a
Date submitted: 10/8/2021
Message 1 of 3
Comment: Hello. Thank you for taking my call. I'm a 3rd generation Korean. I don't know anything about computers. Thank you for this opportunity to share my sentiments about the telescopes and so called Master Plan. I'm a 3rd generation Korean and I just want to pay back to the indigenous communities the love and aloha that they've shown me and my family for over 3 generations. It's appropriate for me to speak up in their favor. Anyway, I hope I can get my feelings shared in 5 minutes gonna be kind of hard. Anyway, maybe if I can't get it all in I can call again and put it on a 2nd recording. I would appreciate it.

Anyway, to begin with, isn't it beautiful how our neighborhood church spires kind of like copycat our mountains. Its all church spires. I believe they try to reflect the splendor, majesty and inspiration of our regular mountains on the whole planet. I know its been published and its official that there are dozens and dozens of so called sacred mountains in the whole world on every continent even like islands like ours. For example, Mount Sinai yeah, the Moses thing; Mount Fuji, Mount St. Helen's, on the sacred mauna who live this I believe very strongly that you folks at the University, not you folks with the Master Plan idea or this delaying tactic, but the University 50 years ago show no moral respect about the scopes on the island if any moral respect was granted to the mountain there would be no scopes there today like all the other mountains that are sacred. And no scopes you will not find any scopes and I think that UH is morally wrong and the disrespect cannot be continued. Clean up the mountain, take everything off. No need rush but as long as its in the Master Plan to eventually end up that way let that mountain be the church of the indigenous society of these states. The University you know being the main sponsor of those telescopes I think they should both you and them apply. This is the second time with it; delaying tactic and repeated requirements or input from the public is being made over here. I think kind of like a little bit deceptive. Maunakea's sacredness, is sacred for many reasons. Besides being the biggest and the tallest, there is unique freshwater life-giving storage system by the name of Lake Waiau that produces water, this life-giving water, in the artesian way being held in reserve. This water is given out at Lake Waiau on top of the mountain and coming from the same, exact same lava and rocks that are situated in our stars and go back to creation as we all well know. Seemingly, Maunakea is the main church of the older indigenous religion of these states [first recording ended].

Submittal Number: 3b
Date submitted: 10/8/2021
Message 2 of 3
Comment: Hello again this is Tek Yoon XXX-XXXX continuing where I was left off. Again the question I would present to you- would you put a telescope or gift shop on this on top of the Sistine Chapel at the Vatican? Or how about telescope system installed on the top of Central Union Church on Punahou Street? Not appropriate or say again on, ask again the same thing on Mount Fuji and Sinai, any of the mountains I previously mentioned. I think not. I think the local governments have more respect and morally correct when they just leave the mountain as a sacred mountain and respect that. Was any prior research done by the University history department on struggles between the church and the state? There’ve been so many collisions, there's ample copious examples of the moral mistake of mixing the two giving people lot of headache for a long time. I believe Maunakea was and is a standalone church yeah and must get everybody off and correct this moral mistake that was an issue 50 years ago. Indigenous religion proponents have advised you and the UH in the very beginning. No trespassing. It was asked then and its being asked now but with a little more urgency because of the creepy crawlly kine system that’s going on top of the mountain. The natural state has to be restored now. Changing the subject over here, you know our venerable late Don Ho, he always mentioned during his show routine down in Waikiki, “the missionaries come, the Hawaiian land go, the missionaries come, and the Hawaiian land go.” This is kind of like an appropriate observation Don Ho himself made repeatedly to the whole world. Please remove those optics off the mountain so that maybe Maunakea will not be ICVM(?) target. I used to be a missile artillery Army officer thanks to the East West Center, some reason they have not given you any heads up on this. ICVM optics, anything that gets over the horizon will now halfway around the globe and be very well seen with your optics. Base management over the last 40 years according to the latest audit by the late Marion Higa, operation of Maunakea management institution has miserably flunked the audit. They flunked it so badly you or anybody else can justify trying to do it again with so much really involved like me pointing out you know bad karma or moral wrong and government versus religion conflict. Please have the courage to correct what morally wrong you have done. Thank you. Get those telescopes off the mountain please. Thank you.

Submittal Number: 3c
Date submitted: 10/8/2021
Message 3 of 3
Comment: Hello again. Thank you for being tolerant of my request. Again this is Tek Yoon number X. Earlier in the day I tried to call the Maunakea Management Office in Hilo and I was informed by Hawaiian Tel that they disconnected the number pretty recently I believe. So anyway I'd like to have some feedback from your office, those of you that are processing this recording. Please let me know how I can retrieve a copy of my comments from the government office that you mentioned that it'll be included under government office can I get copies of my recording please. Again I would appreciate the feedback on that, getting copies. Thank you. Aloha.

Submittal Number: 4
Date submitted: 10/11/2021
Comment: Hello my name is Hoʻolu Kowaleo. My number is X. My comments for the master plan as detailed by the University of Hawaiʻi Mānoa is for the absolute halt and build of TMT on Maunakea. We have cried out to the University and to the other entities that are involved in this build and we have told you “no” numerous times. We have blocked you. We have protested. We marched. We wrote. We did everything that we possibly can and yet you still continue to move forward with this plan. How audacious of you to continue to move forward when the people of Hawaiʻi, with the Kanaka ʻŌiwi have told you many, many times to stop. I'm not sure what part of no is not getting put across but I am absolutely against the build of TMT on Maunakea. Enough is enough. If you respect our voices as you have said E Ō I Ka Olelo, E Ō I Ka Ola, Olelo, whatever, I forgot what was said, then you should hear what we've been telling you guys over and over again. Hear what we are saying: we do not want you to build TMT on Maunakea, not now or ever. Enough is enough.

Submittal Number: 5
Date submitted: 10/13/2021
Comment: Hi my name is Sarah Lou. I wanted to say that I stand with the Native Hawaiians who are against the building of TMT. I think I'm for science and I believe there's a point in which you have to listen to what the community wants or else not being respectful and is not the right decision to do and I think that's where this situation is. So I'm calling for UH to cease construction of TMT on behalf of being respectful and being a part of the community and listening to indigenous peoples on their land. Mahalo, and I hope you have a nice day.

Submittal Number: 6
Date submitted: 10/13/2021
Comment: Hi my name is Elizabeth Ferris. My phone number is X and I wanted to leave a comment about the TMT. The indigenous people of Hawaiʻi have an internationally recognized human right to self-determination and have over the past 12
years clearly exercised that right and said no to the building of TMT on Maunakea which is 100% stolen Hawaiian lands. Please stop the construction.

**Submittal Number: 7**  
**Date submitted:** 10/13/2021  
**Comment:** Hi my name is Karen Baldwin and my phone number is X. I'm calling right now to state that I do not support the building of the TMT 30m telescope on Maunakea. Indigenous people of Hawaii have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said no to the building of TMT on Maunakea which is 100% stolen Hawaiian lands. Failure to listen to the indigenous people of Hawai‘i is a violation of human rights and a violation of listening to the people.

**Submittal Number: 8**  
**Date submitted:** 10/14/2021  
**Comment:** Hello my name is Marie Hobro and I am calling on behalf of opposition of this master plan to build upon Maunakea. It's been years of people fighting against this on indigenous land and the indigenous people have spoken and thought you have their voices heard countless times that this is not something that is wanted on their lands and I am respectfully asking you to please listen to these concerns before, Hawai‘i isn’t even a place for Hawaiians to thrive any more. There have been multiple protests and sign waving and petition signed. Enough is enough already. It's time to listen to the people. Thank you.

**Submittal Number: 9**  
**Date submitted:** 10/18/2021  
**Comment:** Hello my name is Uma Mulnick and I am calling and saying that I am against the development of the telescope on Mauna Lea [Maunakea] and it is been obvious that the Hawaiian people have said no we do not want this. This is on stolen land already and it is time to stop abusing the land that belongs to our ancestors and to the indigenous people of the area and it has been worked with vigorously for the last number of years saying that this is not wanted. We need to stop the desecration of this sacred mountain. Thank you very much for the work that you're doing. Mahalo aloha.

**Submittal Number: 10**  
**Date submitted:** 10/23/2021  
**Comment:** Hi my name is Erika Lygren and my contact information, my phone number is X and I would just like the comment to show that I am not in support of the new Thirty Meter Telescope on Maunakea nor do I support any future TMT telescopes on the sacred mountain and yeah that's my public comment. Okay peace.

**Submittal Number: 11**  
**Date submitted:** 10/23/2021  
**Comment:** Hello my name is Christina Costa. I am an Ethnic Studies educator with Cal State Stanislaus as well as with Modesto Junior College. I'm also Pascua Yaqui Yoeme, and an indigenous woman to the United States and to Mexico. I'm calling in support of the organizers of Hawaii at Maunakea who are working against building a telescope on one of their sacred mountains Maunakea. I just want to say that in light of so many things that have been going on recently in the press I'm here in California in Riverside California. A white racist teacher got up and mocked indigenous culture. We know that historically other sacred sites has been destroyed and it has harmed the psyches of indigenous communities. For instance Mount Rushmore, also known as the Six Grandfathers in South Dakota, was desecrated by colonizers who came to the United States and saw it fit to destroy this sacred site, a spiritual sacred site of indigenous peoples in that area and those people are still hurting from that today. I want to see us avoiding causing further harm to indigenous communities in Hawaii. It is still stolen land that you are occupying and I encourage you to do the right thing and not only decide not to build on Maunakea but to recognize the land rights of the indigenous people of Hawai‘i and give them their land back. Thank you.

**Submittal Number: 12**  
**Date submitted:** 10/23/2021  
**Comment:** Hello my name is Piper Roberts and my contact information is X and I'm here to protest the building of TMT on Maunakia [Maunakea]. It is destroying indigenous land and I believe indigenous land should be protected and the building of telescopes is already destroys a bunch of the island. So please do not build it. Thank you.
Submittal Number: 13
Date submitted: 10/24/2021
Comment: Please just leave the land alone like Hawai‘i has already been just desecrated. Just leave it alone. Let is heal.

Submittal Number: 14
Date submitted: 10/24/2021
Comment: Building this telescope on top of Maunakaya [Maunakea] is a desecration to Hawaiian culture and the environment. Telescopes already developed there has caused chemical spills leaked toxic substances onto the land and this is creating natural resources negligence and disregard of environmental and cultural impacts. This is a disgrace and this needs to be stopped. People have been protesting for over 2400 days and this is horrible. These are sacred lands. I hate to be able to say that we're doing this. Please stop. Thank you.

Submittal Number: 15
Date submitted: 10/24/2021
Comment: Please do not build the telescope on Montakea [Maunakea]. It is an ancient burial ground for Hawaiian people and ancient place for Hawaiian people and ancient rituals, place for, like deities and ancestors and the telescopes already established there are already detrimental to the environment. It is [inaudible] the Hawaiian culture they have and it should be stopped. Bye.

Submittal Number: 16
Date submitted: 10/24/2021
Comment: Hi my name is Charles Klausner and my phone number is and I'm calling on behalf to just comment that I believe that we should follow our kia‘i and not build TMT. I feel that this is an ill-advised venture and at this moment TMT does not have the support from the community and it is a desecration of the lands and I just wanted to call today to submit that comment and put my beliefs out there for this committee to review. Thank you. Bye bye.

Submittal Number: 17
Date submitted: 10/25/2021
Comment: Hello my name is Colby Wood. I'm calling from Huntington Beach, California. My phone number is X. I just wanted to say that I do not support the building on TMT on Maunakea. I think that it would be a destruction of natural resources that have taken millions and millions of years to create and we can destroy them in a matter of decades and I don't wanna see that happen. So please record my vote as a no on the building of TMT on Maunakea. Thank you. Have a great day.

Submittal Number: 18
Date submitted: 10/25/2021
Comment: Aloha my name is Nicole Everhart. I just wanted to give you guys a call and let you know that I think that you should really reconsider building the TMT telescope on top of Maunakea as so so many native people have been sharing their opposition for this and how sacred the mauna is to them and I think that it's really important in our society to listen to the native people, I do understand that base observation and research is extremely important and I just think that it needs to be moved to a different site. Maunakea is so sacred and so much of the land has been taken from the Hawaiian people and we need to listen to them and respect them. So please listen to everyone's comments that are opposing that and really look into your hearts and think that if somebody was going to take something so sacred from you how would you feel. All these people are banding together and they're spending their time, their lives their money, putting their hearts out there, putting their lives on the line to save Maunakea and we need to respect them. Thank you so much for listening to whoever hears this. I hope that this has made a difference for you and hopefully this has made a difference for all the native Hawaiians that are fighting so hard to save their land. Okay aloha and mahalo.

Submittal Number: 19
Date submitted: 10/26/2021
Comment: Aloha my name is Elizabeth [inaudible]. I live in North Kohala. My phone number is X and I would like to express my opposition to building of the Thirty Meter Telescope on Maunakea. I believe that the people have spoken and the
rights of the natives of this place should be respected. They have expressed clearly that they do not want this built there and for once they should be listened to.

**Submittal Number:** 20  
**Date submitted:** 10/26/2021  
**Comment:** My name is Karen Murray and my phone number is X. I'm opposed to TMT being built up there because it would alter too much up there. It's too much damage has been done to the top of Maunakea as it is. It's conservation land and if the academics do not understand the 8 criteria of exemptions on for building on conservation lands. I'm sure they can look it up. I'm sure they can get as much help as they need but none of the building up there has ever fulfilled the 8 criteria and this is just taking it a step too far. It's a total insult to the Hawaiian people. It's a total insult to any conservationists who haven't sold out. I think that we should just stop building TMT all together and I'm glad that they're finally decommissioning and taking down what should have been taken down long ago. The UH and other telescopes have been proven to be bad stewards of the land up there and I guess that's it. Well there's actually a lot more you know but environmentally it's a disaster I think. Thank you.

**Submittal Number:** 21  
**Date submitted:** 10/26/2021  
**Comment:** Hi my name is Rebecca Light. My number is X. I live in Oakland California. I am opposed to the UH draft of it's plan for Maunakea. It is Crown Land. UH has no right to be controlling any issues related to the mauna or controlling or commenting or restricting in any way land access rights and use by native Hawaiian people. This is not okay. It does not even, it's not even legal as the Crown Lands are still legally recognized as being just that. I'm very, very opposed to this draft. It's very offensive. It's very racist to Hawaiian people and community and the right of the Kingdom of Hawai‘i to their Crown Land is a legal right that the University does not have any business trying to control. Thank you so much. Bye.

**Submittal Number:** 22  
**Date submitted:** 10/26/2021  
**Comment:** Aloha. Thank you for giving the opportunity for input from the public on this important subject. I'm not Hawaiian. My family is here several generations, several generations and I think that many folks I know that myself, I am appalled at the government's failure to protect the Hawaiian people and the things, their religion and the things and the land that they hold sacred in front of God and everybody. This is been going on too long and this is a great terrible awful example of what has been happening on the islands these last, this last century and before. I’ve seen the misuse, what I think of misuse and abuse of Hawaiian culture to, bent, to be manipulated as if it supported the TMT or the construction, further construction on the mountain. It's what is called, when you adopt somebody else’s culture, when you misappropriate someone else’s culture. It's awful. It's been going on way too long and I’m not sure that the powers that be realize how much they think that business is so important but the quality of life of everyone is affected by these bad act against people who own this culture and from this place. Its shocking the way the people are ignored. I would, I absolutely think there should be a limit if UH is going to continue to administrate in some way Maunakea for the moment, that there should be a limit, it shouldn’t be open-ended. And again, I think there likely needs to be a change in leadership as well because it seems very subjective when they bring in the police against the Hawaiian people and supporters up there blocking only machinery non-violently. It affects me. That’s not what I want. And so it misrepresents myself as a part of the public, the general public. And that’s been going on. You take away from everybody’s quality of life by mistreating this one group of people in every way. You may not think of mistreating but it is because its not listening. Its not giving any weight to the folks who have all the interests. The right to protect this place is in the books. It says it is sacredly reserved. You know its in Hawaiian and its in English and its by the chiefs and by the foreigners and they say its sacredly reserved. So I don’t know how that, so anyway. So thank you for your time. My name is Lynn Walter. My email is X and my phone number is X and I do not support any construction on Maunakea and I think that the conservation should actually be conservation in its true sense not the manipulated sense. And listen to the people. They're telling you what you need to know. But you just have to listen. Thank you.

**Submittal Number:** 23  
**Date submitted:** 10/26/2021  
**Comment:** Aloha my name is Jordan Hocker and my email is X. I am calling to include my comment on the UH draft master plan. I do not give consent for my words or my name to be used in any capacity as having been consulted. So yeah I have some major issues with this plan. One- the draft plan has been drafted regardless of extensive opposition of TMT by Kanaka Maoli and others who do not consent to having what is their public trust be desecrated in this manner. I do not approve of this general plan having indefinite control of Maunakea for present and future generations. That is an oversight and overreach of UH and does not have the authority nor the jurisdiction to be doing anything up on Maunakea without the express approval
of a majority of the folks and as we saw with the protests a few years back that is not the case. You kind of just dropped the plan and then decide that this is gonna work for everyone. Also a gate at the bottom of the road seems like purely a move to make it impossible for demonstrations that happened in the past to happen again and with this plan if it goes forward you can anticipate demonstration. So this seems like a pre-emptive move to prevent people from exercising their rights to protest. Also there does not need to be an increased security presence because that also seems like a response to both criminalize Kanaka Maoli who do not consent and will likely demonstrate in the future if this goes on. Further, what is happening up on TMT is a colonial practice, OK. It does not have the consent of the aboriginal people of these islands which means that when you use their own language to appropriate a plan that goes against the majority popular opinion that you are coopting and you are appropriating the language meaning you are using it in a way that it is not intended to be used. If you really truly acknowledged the origin of creation, then you would not be trying to put a telescope in a place where its not wanted to begin with. I think it goes without saying this draft master plan should not even be (1) considered and TMT should not be continuing to be considered. It is not the will of the people. And myself as a UH Maui College student who is pursuing a degree in Sustainable Science Management I am truly appalled that this is the institution that can in one breath say they support Kanaka Maoli and sustainable decisions and in the other breath put forward a plan like this which is meant to gaslight activists and gaslight Kanaka Maoli who know that digging into the water table, digging deep into the top of the highest point in Hawai‘i is not the right thing to do. Its not a sustainable move and its not necessary. So I don’t support this master plan. I do not support any continued plan for things to happen on Maunakea and you can have my word on that. Mahalo.

Submittal Number: 24
Date submitted: 10/26/2021
Comment: Teddy Johnson. I do not have an email address. However I moved to Hawai‘i in 1970 and every year I used to go up to Maunakea with my Boy Scout Troop and the only thing I ever saw Hawaiians do was drinking beer and writing their name with urine in the snow. And then I later joined the Sierra Club and I used to go up every year and I saw, still saw the same thing! So I don't know where they come up with all this stuff about religious significance of the mountain when the only thing I ever saw people doing was, like I said, urinating in the mountain. So they must have powerful urine that they have converted into a sacred mountain.

Submittal Number: 25
Date submitted: 10/26/2021
Comment: Aloha my name is Kamala Galletes. My phone number is X. My email is X. Thank you for your time and very careful consideration. I am calling to oppose the building of TMT on Maunakea. The people have spoken time and time again in opposition of this desecration and destruction of our sacred Maunakea. Please listen to the voices of the indigenous people of Hawai‘i, the Kanaka Maoli and the people all over the world that have expressed themselves. Petitions have been signed, testimonies have been given, people have shown up by the thousands to show just how much we oppose the building of TMT. I ask you today. I ask you tomorrow. I will be there to stand in opposition of this destruction all the days of my life to hana kupono to do what is right by the people, by the aina, by our kupuna, by na akua by saying no to TMT on Maunakea. Ua mau ke ea o ka `āina i ka pono (The life of the land is perpetuated in righteousness). Mahalo nui, mālama pono, a hui hou.

Submittal Number: 26
Date submitted: 10/26/2021
Comment: Aloha. This is Iokepa Kaolulokonaniuokinikonakaahanui Kaeo. I am calling on behalf of the beneficiary trust council and my Ohana on Moku Keawe. We firmly object any further desecration upon our national and Crown Lands that was illegally stolen by the United States of America. This Maunakea management plan is insufficient and you guys have received multitudes of support from University Hawai‘i teachers, faculty, and not only foreigners, but you guys successfully created these false Native Hawaiian leaders to speak on behalf of us – Larry Kimura, kanaka`oles. They do not speak on behalf of the Hawaiian nationals. So we object to any further desecration in the master plan which you guys have filled over 50 years and you guys shall not be building Maunakea, building TMT upon Maunakea anytime in the near future for the long seeing future for our keikis. Mahalo. Have a great day. Aloha.
13 INPUT RECEIVED VIA EMAIL FROM 123FORMBUILDER.COM
Date submitted: 10/6/2021  
Name: Terri Fonseca  
I am: Part kanaka, part haole  
City, State: Kīhei, HI

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Additional comments:
Date submitted: 10/6/2021
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I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: There is no compromise to this situation, TMT will not be built on Mauna Kea and UH does not have the authority or power to force things to be as they want it to be, for financial gains. This is not about Anti-science, this is about stopping further desecration to our 'Āina and stopping the lies that continue to happen to our people. WE HAVE A SAY AND WE WILL FIGHT IN EVERY WAY WE CAN TO BE HEARD!
Date submitted: 10/6/2021
Name: Steven Thomas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mililani, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: What will it take for you to understand that THIS CANNOT HAPPEN.. What will it take for you to understand that some of us are willing to DIE to prevent this! HEWA LOA ‘OUKOU!
Date submitted: 10/6/2021
Name: Ivy Iaea
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Puna, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: Enough is enough!!! We will always stand to Mauna Kea and never allow the TMT to be built. Do you not hear us? See us, care about our cultural practices?
**Date submitted:** 10/6/2021  
**Name:** Tye Jazo  
**I am:** non-Native Hawaiian  
**City, State:** Palmer, AK

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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### Additional comments:
Please stand with all kanaka and the aina please be the hero of the people and the land where you live.
**Date submitted:** 10/6/2021  
**Name:** Philamer Felicitas  
**I am:** non-Native Hawaiian  
**City, State:** Waipahu, HI

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**Additional comments:** The audacity that a local university that bares the words Ua Mau ke Ea o ka ‘Āina i ka Pono in its seal would side with TMT who would do just that is embarrassing and goes against the values that that phrase stands for. DO NOT WORK WITH TMT AND LEAVE THE LAND ALONE.
**Date submitted:** 10/6/2021  
**Name:** Tyler Fitzsimmons  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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Additional comments:
Date submitted: 10/6/2021  
Name: Charlene Holani  
I am: Pacific Islander  
City, State: Hilo, HI

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Date submitted: 10/6/2021
Name: Lani Kwon
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments: Stop.
**Date submitted**: 10/6/2021  
**Name**: Nanea Lo  
**I am**: Kanaka Maoli (aka Native Hawaiian)  
**City, State**: Honolulu, HI

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**Additional comments:**
Date submitted: 10/6/2021
Name: Tom Iwanicki
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I am a scientist at UH and the continued desecration of the Mauna causes me great shame. A'ole TMT!
Date submitted: 10/6/2021  
Name: Melissa Tomlinson  
I am: non-Native Hawaiian  
City, State: Lafayette, CA (Ohlone)

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: There will be resistance to any more telescopes being built every step of the way. Mauna a Wakea must be protected for so many reasons including the generations to come. The cultural significance of Mauna Kea is so vast and should be enough for everyone to not want to build anything on top to protect all Kānaka Maoli. Right now the restoration of Mauna Kea is of the utmost importance. Looking out into space in great and necessary in our evolution, but the universe will be there. Climate crisis, protecting every precious part of the ecology that is functioning is critical, like the coral, like the birds and plants, the Ohi‘a, the people. Can we see to space enough to focus more on repairing the harm that has been caused? The ‘Āina doesn’t exist for our exploitation.
Date submitted: 10/6/2021  
Name: Regina Peterson  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Watanabe, HI

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Additional comments: This is unacceptable action on your part....WE THE PEOPLE SAID NO!!! OUR SACRED PLACE!!! NOT YOURS!!!
Date submitted: 10/6/2021
Name: Emily Pahinui
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waialua, HI

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Additional comments:
Date submitted: 10/6/2021  
Name: Kealoha Pisciotta  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Ola‘a, HI

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Name: Martin Pahinui  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waialua, HI

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I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waialua, HI

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Additional comments:
Date submitted: 10/6/2021  
Name: Māhealani Ahia  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kaneohe, HI

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Additional comments: No consent!
Date submitted: 10/6/2021
Name: Noelani Ahia
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiehu, Maui, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/6/2021
Name: Kaialiʻi Roberts
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Keaʻau, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/6/2021  
Name: Kaneali’ikeikioka’aina Williams  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kuiaha, Ha’iku, Hamakualoa, Maui, HI

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Additional comments: Mauna Kea has been labeled as supposedly “Ceded Lands”; those supposed “Ceded Lands” are Crown Lands of the Hawaiian Kingdom government which is active. UH does not have a commercial contract with the Crown, and therefore UH does not authorization to be operating any commercial activity, including management, pertaining to Mauna Kea. UH has not jurisdiction and is to cease and desist.
Date submitted: 10/6/2021
Name: Natalie Trevino
I am: non-Native Hawaiian
City, State: Fraser, MI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/6/2021
Name: Piper Harron
I am: non-Native Hawaiian
City, State: Toronto, Canada

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X

Additional comments: I was a postdoc at UH Manoa and spent time with the student kiaʻi sit in. Lasser and UH admin are in over their heads and have never been able to reconcile the obligations of taking care of the land as an Indigenous serving institution on stolen land. Going forward with TMT is in direct contradiction of the mission and vision of UH and it is only fear, cowardice, and incompetence that prevents them from doing what is right. ‘Aʻole TMT.
**Date submitted:** 10/6/2021  
**Name:** Kaui Pratt-Aquino  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** O‘ahu, HI

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**Additional comments:**
**Date submitted:** 10/6/2021  
**Name:** Renee Winchester  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Leilani Pupuhi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Puna, HI

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Keānuenue Pupuhi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:**
Date submitted: 10/7/2021
Name: Paul Pupuhi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kalua’aha, HI

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Chelseamay Pupuhi  
**I am:** non-Native Hawaiian  
**City, State:** Kalua’aaha, HI

| Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Harley Kane  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai'anae, HI

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**Additional comments:**
Date submitted: 10/7/2021
Name: Mapuana Kalaniopio-Cook
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hāna, Maui, HI

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Additional comments: I agree to all the above statements. The kanaka maoli have spoken, no means NO! No TMT, no lease extensions, delete any and all inferences to Mauna Kea concerning the building of the TMT.
**Date submitted:** 10/7/2021  
**Name:** Kaleinani Taylor  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI, HI

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**Additional comments:**

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Date submitted: 10/7/2021
Name: Nohealani Frizzell
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI, HI

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Claudia Claire Kapiolani Quintanilla  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** X Hoakalei Street, HI

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**Additional comments:** No MEANS NO! Kūʻē!
**Date submitted:** 10/7/2021  
**Name:** Emma Oto-Pale  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** North Las Vegas, NV

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Livia Solari  
**I am:** non-Native Hawaiian  
**City, State:** Oakland, CA

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Date submitted: 10/7/2021  
Name: Ethan Levin  
I am: non-Native Hawaiian  
City, State: Fishtail, MT

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Rebekah Luke  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaawa, HI

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Additional comments: TMT should not have ever been considered to be built it haas never been in Kānaka best interest
Date submitted: 10/7/2021
Name: Diana Garcia
I am: non-Native Hawaiian
City, State: Sacramento, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Mariana Monasi  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** ʻAlihilani Katoa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** No TMT. No treaty.
**Date submitted:** 10/7/2021  
**Name:** Alec Marentic  
**I am:** non-Native Hawaiian  
**City, State:** Mountain View, HI

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**Date submitted:** 10/7/2021  
**Name:** Peggy McArdle  
**I am:** non-Native Hawaiian  
**City, State:** Kailua Kona, HI

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**Additional comments:** Pursuing TMT on the summit of Mauna Kea is a continuation of further acts of violence on indigenous communities.
Date submitted: 10/7/2021
Name: Norman Gaspar
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hawaiian Kingdom,

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Date submitted: 10/7/2021
Name: Cookie Akau-Gaspar
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hawaiian Kingdom,

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Additional comments:
Date submitted: 10/7/2021
Name: Aurreyana Hauoli
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Lawton, OK

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Kalani Garcia  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Date submitted:** 10/7/2021  
**Name:** Jordan Elicker  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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Date submitted: 10/7/2021
Name: Tanya Pale
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaunakakai, HI

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Date submitted: 10/7/2021
Name: Kala‘i Joy
I am: Kanaka Maoli (aka Native Hawaiian)
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Additional comments: Kanaka Maoli and people around the world have shown a large opposition to the construction of the TMT and to ignore that is wrong. You all know it is wrong and immoral so why do you continue to ignore us? We will never stop fighting for our land or our rights as the indigenous people of Hawai‘i.
Date submitted: 10/7/2021  
Name: Jen Holani  
I am: non-Native Hawaiian  
City, State: Hilo, HI

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Additional comments: WE DO NOT GIVE CONSENT FOR TMT UH HAS WRONGFULLY MANAGED MAUNAKEA AND SHOULD BE BANISHED FROM FURTHER DEVELOPMENT OF ANY TELESCOPES ON MAUANKEA AS WELL AS CLEAN UP ALL THE MESS FROM PAST TELESCOPES
Date submitted: 10/7/2021  
Name: Cindy Jepsen  
I am: non-Native Hawaiian  
City, State: Lā'ie, HI

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Additional comments: The only right thing to do is end UH control and decommission and remove every trace of the telescopes and other rubbish off of Maunakea.
**Date submitted:** 10/7/2021  
**Name:** Liz Musgrove  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Nikos Leverenz  
**I am:** no answer  
**City, State:** Honolulu, HI

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**Additional comments:** Recent decades have shown that UH has not been a good steward of Mauna Kea's natural and cultural resources. Its mismanagement includes not obtaining anything resembling fair market value from its business partners to operate at the summit. It has also ignored federal environmental reviews finding a deleterious impact of more projects. The management of Mauna Kea is better suited to a government or nonprofit agency that can better center the express needs of Hawaiian's indigenous population.
Date submitted: 10/8/2021
Name: Jensen Villaflor
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: The UH also claims to support indigenous Hawaiian knowledge and claims to be a center for learning and collaborating with Hawaiian people. Actions by the university must reflect that. It cannot be self-serving lip service to make the UH seem special, tolerant of the people are whose dispossession enables its existence. Science is not a part from culture. Science can and has been a tool of great violence, do not forget that. Do not further perpetuate that.
**Comment Forms Received via Email**

**Date submitted:** 10/8/2021  
**Name:** Dianne Deauna  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Cerina Sanchez  
**I am:** Native American Indian  
**City, State:** Honolulu, HI

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**Additional comments:** As a student at the university of Hawaii, I do not agree with the actions of my institution, they should not start building on kanakas land for it is scared.
Date submitted: 10/8/2021
Name: Jana Julian
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Taysia Tangjian
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/8/2021
Name: Tamateo Po'oloa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Adam Po’oloa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments: ‘A‘ole UH ‘a‘ole TMT
Date submitted: 10/8/2021  
Name: Kealiʻimakamaʻonalani Poʻoloa  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hilo, HI

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Additional comments: UH has grossly mismanaged Mauna Kea all these years and it’s time a commission for the protection and preservation of our highest altar be run by those who led the massive protests of 2019.
Date submitted: 10/8/2021  
Name: James Jack  
I am: non-Native Hawaiian  
City, State: , Singapore

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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Additional comments: No means no please respect indigenous land, people and save stars for navigation not for destruction of this sacred site.
Date submitted: 10/8/2021
Name: Trina Kahalewai
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Las Vegas, NV

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. |
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| X |

Additional comments: NO TO TMT!!! KEEP HAWAII HAWAIIAN!!! KEEP HAWAIIAN LANDS IN HAWAIIAN HANDS!!!
Date submitted: 10/8/2021
Name: Kaimana Pacatang
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kōʻele, Lānaʻi, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: The fact that we are even still talking about TMT is ridiculous. Kānaka across the entire world have spoken: we’ve had ENOUGH of the mismanagement of Mauna Kea, and we will ALWAYS return to protect the mauna!
Date submitted: 10/8/2021  
Name: Sautia Tanoa  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments: It’s unconscionable that UH has maintained their stance on desecrating a sacred place that’s central to native Hawaiian culture and identity given that Mauna Kea is a part of Hawaiian cosmology. This is shameful and as a Hawai'i resident who was born and raised in the islands, I view the building of TMT as an inadvertent (or explicit) neocolonial tactic to cultural erasure much in the same way that State tried to when the government outlawed ʻōlelo Hawai‘i in 1896. The State has since made great progress on that front with the immersion of Hawaiian charter schools and for UH to continue this assault on Mauna Kea is a major step backwards from fortifying Hawaiian culture and is also contributing to the already existent polarization between settlers and kānaka ʻōiwi as well as racism against Hawaiians.
**Date submitted:** 10/8/2021  
**Name:** Natasha Kahana  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** We will stand in solidarity for Mauna Kea forever. It is a shame that the management of Mauna Kea continues to be led by corrupted, blood sucking, and destructive entities. The majority of "Public" lands are "Ceded Lands" Hawaiian Kingdom Crown Lands that are meant to be designated for the good of the public, including the benefits of Kanaka Maoli (Native Hawaiians) and their descendants. The Office of Maunakea Management, University of Hawai‘i at Hilo, Board of Land and Natural Resources, continue to fail to protect our "natural resources" that sustains life by allowing "Public" lands to be used for commercial, mixed, industrial, government use, etc. without communicating with the people of this land concerns for over 65 years. This needs to end. We the kanaka (people) of this land refuse to continue to allow this desecration to Papa (our earth mother). Do what is right for the land, once the damage is done, it is never the same AGAIN. STOP THE DESECRATION BEFORE IT IS TOO LATE. Kūpa‘a ma hope o ka `āina (ever loyal to the land)!
Date submitted: 10/8/2021  
Name: Sherry Shimizu  
I am: non-Native Hawaiian  
City, State: Pearl City, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: Please
Date submitted: 10/8/2021
Name: Chantell Cambia
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Ellen-Rae Cachola
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/8/2021  
**Name:** Paul Langis  
**I am:** non-Native Hawaiian  
**City, State:** Whittier, CA

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Brett Jones  
**I am:** non-Native Hawaiian  
**City, State:** Kaneohe, HI

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**Additional comments:**
Date submitted: 10/8/2021
Name: Erika Arriba
I am: non-Native Hawaiian
City, State: Kalihi, O‘ahu, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Celine Milla
I am: non-Native Hawaiian
City, State: San Diego, CA

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Additional comments:
Date submitted: 10/8/2021
Name: Sonja Mapuana Collins
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapolei, HI

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**Date submitted:** 10/8/2021  
**Name:** Joseph Wat  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** I am disappointed to see that the continuation of this discussion is necessary. The mauna is sacred and the people don’t want this telescope. Please understand that this movement and commitment to ʻāina is BUILDING and will not decrease as time goes on. Make alternate plans and invest UH resources into community supported projects.
Date submitted: 10/8/2021
Name: Candace Fujikane
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Priyanka Bhakta
I am: non-Native Hawaiian
City, State: Fountain Valley, CA

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Additional comments:
Date submitted: 10/8/2021  
Name: Monica Texeira  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hanapēpē, HI

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**Additional comments:**
Date submitted: 10/8/2021
Name: Justus Arthur
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI

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Date submitted: 10/8/2021  
Name: Alana Blume  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Tei Ryu  
**I am:** Asian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Kainoa Spencer  
**I am:** no answer  
**City, State:** Kona, HI

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123CommentForms Received via Email
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**Date submitted:** 10/8/2021  
**Name:** Jacob Shearer  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, Kona, O‘ahu, HI

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Date submitted: 10/8/2021
Name: E. Kalikoaloha Martin Jr
I am: 
City, State: ,

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Date submitted: 10/8/2021  
Name: Maile Blume  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/8/2021  
**Name:** Sam Ikehara  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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### Additional comments:

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Date submitted: 10/8/2021  
Name: Katherine Burke  
I am: non-Native Hawaiian  
City, State: Kaneohe, HI

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Additional comments: The trauma this is causing Native Hawaiians is unacceptable and directly impacts their health and well-being, which impacts us all. Non-Hawaiians should have no plans for spaces that are sacred to Native Hawaiians, that is their birthright to protect. The only role for non-Hawaiians is to support Native Hawaiians in those efforts to protect and preserve the ecosystem for future generations, efforts that benefit us all.
**Date submitted:** 10/9/2021  
**Name:** Donald Kaiahua 3rd  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Date submitted:** 10/9/2021  
**Name:** Nolen Kekawa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** NĀNĀKULI, WAI’ANAE, HI

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**Additional comments:** LEAVE MAUNAKEA ALONE
**Date submitted:** 10/9/2021  
**Name:** Joseph Han  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/9/2021  
**Name:** Carly Rose  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wahiawā, HI

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**Additional comments:**
Date submitted: 10/9/2021  
Name: Kapua Medeiros  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waimanalo, HI

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Additional comments: NO More Telescopes! Mauna a Wākea is a precious resource that has already been desecrated by many Telescopes...Enough is Enough!! 'A'ole TMT.
Date submitted: 10/9/2021
Name: Theresa Kekawa-Kāhili
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: “Only when the last tree has been cut down, the last fish been caught, and the last stream poisoned, will we realize we cannot eat money.”
**Date submitted:** 10/9/2021  
**Name:** LIANA CORTEZ-KEKAWA  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai'anae, HI

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**Additional comments:** PLEASE JUST LEAVE OUR LANDS ALONE ALREADY
**Date submitted:** 10/9/2021  
**Name:** Kimberley Marcelo  
**I am:** non-Native Hawaiian  
**City, State:** Wailuku, HI

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**Additional comments:**
**Date submitted:** 10/9/2021  
**Name:** Christian Hernandez  
**I am:** non-Native Hawaiian  
**City, State:** Mililani, HI

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Additional comments:
Date submitted: 10/9/2021  
Name: ʻAuliʻi Nathaniel  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Houston, TX

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Additional comments:
Date submitted: 10/9/2021
Name: Isis Usborne
I am: non-Native Hawaiian
City, State: Aiea, HI

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Additional comments:
Date submitted: 10/9/2021
Name: Breanna Raines
I am: non-Native Hawaiian
City, State: San Diego, CA

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Additional comments:
Date submitted: 10/9/2021
Name: Puanani Apoliona-Brown
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Date submitted: 10/9/2021
Name: Marin Char
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hauula, HI

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Additional comments:
Date submitted: 10/9/2021
Name: Ann Malluwa Wadu
I am: non-Native Hawaiian
City, State: Arlington, VA

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Additional comments:
Date submitted: 10/9/2021
Name: Doris Yang
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/9/2021  
**Name:** Kylie Akiona  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, Oʻahu, HI

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**Additional comments:** When I have to submit my proposal for my senior thesis for just interviews alone, I need to submit for IRB approval. Without consent from interviewees, I would never receive approval to move forward with my research. Yet, none of the telescopes on the Mauna today have the consent of Kānaka Maoli. Why are the standards for gigantic telescopes with millions and billions of dollars in resources and boards of educators and “scholars” so low? It’s time for TMT and all other telescopes to understand that their research has ZERO legitimacy without the consent of the Native people and the Native land they desecrate. The inter generational trauma that this “research” and the strain on the Kanaka Maoli community is irreversible. Do not further harm what you know cannot be fixed.
**Date submitted:** 10/10/2021  
**Name:** Alyssa Kaapona  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** Please be on the right side of history. Mahalo for your time.
Date submitted: 10/10/2021
Name: Victoria Gruen
I am: non-Native Hawaiian
City, State: Hunstville, AL

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Name: Shaeralee Manosa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mana'e Moloka'i, HI

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Additional comments: Ua Mu Ke Ea I Ka Aina I Ka Pono
**Date submitted:** 10/10/2021  
**Name:** Marc-Wayne Smith  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaunakakai, HI

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Additional comments:
**Date submitted:** 10/10/2021  
**Name:** Jarmaine Yamashiro  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:**
Date submitted: 10/10/2021
Name: Florence Kong
I am: no answer
City, State: Kaunakakai, HI

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Additional comments: Let's do it
Date submitted: 10/10/2021  
Name: Hooipo Bertelmann  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kamuela, HI  

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Additional comments: I don’t think anyone should be able to lease the top of the mountain and it should be left to the gods. If Hawaii doesn’t want anything on MAUNA Kea then nothing should be on the top of Mauna Kea. Okay there are the 5-10 Hawaiian scientists that support this project but what about the 1,000s of Hawaiians who don’t.
Date submitted: 10/11/2021
Name: Cesar Hernandez
I am: Californian
City, State: Portland, OR

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Additional comments:
Date submitted: 10/11/2021
Name: Makena Willette
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hollister, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/11/2021
Name: Nainoa Heaston
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Additional comments:
**Date submitted:** 10/11/2021  
**Name:** Susan Ching Harbin  
**I am:** non-Native Hawaiian  
**City, State:** Mililani, HI

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**Additional comments:** In conclusion, the Mauna Kea summit has been mismanaged for decades. This proposal for the TMT is another example of missing the mark of what the people of Hawaii want. I am vehemently opposed to including the TMT in the master plan for this mountain. Please come to the table with a plan to support the people of Hawaii, it should include ecological restoration at the forefront of the design and allow a voice to native peoples.
Date submitted: 10/11/2021  
Name: Thomas Diamanty  
I am: non-Native Hawaiian  
City, State: Wilmington, DE  

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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Additional comments:
Date submitted: 10/11/2021
Name: Meline Cardona
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Henderson, NV

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Additional comments: I strongly oppose the UH Mauna Kea Master Plan.
Date submitted: 10/11/2021
Name: Tiffany Vasquez
I am: non-Native Hawaiian
City, State: Oakland, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
**Date submitted:** 10/11/2021  
**Name:** Hōʻolu Cravalho  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pacific Palisades, HI  

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**Additional comments:** Are you not hearing us? Do you not care? How can you continue to move forward with a plan to build TMT on Mauna Kea when there has been a resounding cry from the Native Hawaiian community and the people of Hawaiʻi to STOP? ENOUGH IS ENOUGH!
Date submitted: 10/11/2021
Name: Arden Sparks
I am: non-Native Hawaiian
City, State: Spokane, WA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
Date submitted: 10/11/2021
Name: Mahina Apuna
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Spokane, WA

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Additional comments:
Date submitted: 10/11/2021
Name: Jenna Puanani Horner
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Phoenix, AZ

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/11/2021  
**Name:** Matthew Hobn  
**I am:** former resident  
**City, State:** Phoenix, AZ

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**Additional comments:** Hello. I’m writing as a friend of the Kanaka Maoli, and a former resident of Lahaina. I urge you to consider the voices of the people of Hawaii and what they have said for many years now regarding the building of the 30 meter telescope on Mauna Kea. To continue with this development despite an enormous and global show of opposition by native and non-native peoples is just a modern interpretation of the many violations of indigenous values and sanctity. Putting the interests of science, whether it be one university or of space-curious people everywhere, over the urgent and human rights of a group is not just. Please listen to the people of Hawaii and do not build telescopes on their most sacred landscape.
Date submitted: 10/11/2021
Name: Jennifer Newbrey
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pearl City, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Please hear our people.
**Date submitted:** 10/11/2021  
**Name:** Mia Liang  
**I am:** non-Native Hawaiian  
**City, State:** Seattle, WA

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**Additional comments:**
Date submitted: 10/11/2021  
Name: Anthony Newman  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Petaluma, CA

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Additional comments:
Date submitted: 10/11/2021
Name: Kalamakū Popovich Pung
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Development of any sort, must and should only be decided by the Native people of these islands.
Date submitted: 10/11/2021
Name: Lujain Ali
I am: non-Native Hawaiian
City, State: Cairo, Egypt

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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Meghan Walles  
**I am:** non-Native Hawaiian  
**City, State:** Makawao, HI

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**Additional comments:** Listen to the people and stewards of this land! If this institution claims to empower Native Hawaiians through education, yet cut their legs from underneath them by supporting the desecration of a sacred site while placing local families and Hawai’i island at financial and ecologic harm—YOU ARE PART OF THE PROBLEM NOT THE SOLUTION! Stop now and shame on University of Hawai’i!
Date submitted: 10/12/2021  
Name: Kaimi Mullaney  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Sabrina Jimenez  
**I am:** non-Native Hawaiian  
indigenous Mexican  
**City, State:** Pasadena, CA

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**Additional comments:**
Date submitted: 10/12/2021
Name: Megan Malcolm
I am: non-Native Hawaiian
City, State: Haiku, HI

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**Date submitted:** 10/12/2021  
**Name:** Lori Kulhavy  
**I am:**  
**City, State:** Ulupalakua, HI

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**Additional comments:** Recognize the rights of the nation of Hawaii. There is no way around it. The days of stealing and desecration are over. Please get on board now and help the cause of truth and justice
**Date submitted:** 10/12/2021  
**Name:** Michele Kaeo  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

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**Additional comments:** A’OLE TMT! No means , No.
**Date submitted:** 10/12/2021  
**Name:** Donna Kealohanui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:–For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** Stop trying negotiate our ‘aina it is not yours to negotiate stop desecrating our ‘aina we belong to papa and wakea
**Date submitted:** 10/12/2021  
**Name:** Jane Au  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Haleiwa, HI

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**Additional comments:**
Date submitted: 10/12/2021
Name: Mahealani Martin
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: ALOHA, I AM OPPOSED TO YOUR SO CALLED MASTER PLAN OF FRAUD DESECRATION COLONIALISM OPPRESSION UNLAWFUL MANAGERIAL INCOMPETENCY ON OUR MAUNA. IT IS TIME TO LET GO OFF THIS PROJECT AND GIVE BACK ALL MONIES (KICKBACKS) TO GET TMT BUILT. GO BUILD YOUR WEAPON OF MASS DESTRUCTION ON TOP MOUNT FUJI OR SOMEWHERE ELSE. ITS ENOUGH THAT THE LANDS THE US AND STATE OF HAWAII (PROVISIONAL GOVERNMENT ) ARE IN GREAT BREACH OF TRUST ACCORDING TO LATEST AUDIT. WAR CRIMES ARE DOCUMENTED AND WE WILL NEVER LET SETTLER COLONIZERS WITH NO ALOHA FOR HAWAII OR ITS ABORIGINAL PEOPLE ANYMORE. SHUT THIS HEWA ACTION DOWN!! JUST BECAUSE STEALING LAND BY THE US , SOH, AND MILITARY DOESNT MAKE IT RIGHT FOR OTHE CORPORATE AGENCIES TO DO THE SAME CORRUPT ACTS. GET THE HELL OFF OUR MAUNA!! A’OLE PONO HAOLES GO BACK TO YOUR OWN COUNTRY AMELIKA USA!!! SEE YOU ON THE MAUNA!!
Date submitted: 10/12/2021
Name: Tiana Dole
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Enough is enough we don’t want TMT anywhere near or atop oof Mauna Kea!
Date submitted: 10/12/2021
Name: Calista Schloessmann
I am: non-Native Hawaiian
City, State: Kalispell, MT

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments: Dear UH Executive Leadership, It is your obligation to listen and heed the requests of native Hawaiians who want to keep their land free. After the US stole the indigenous Hawaiian islands from its rightful owners, it is our obligation to halt construction of TMT on Mauna Kea. Respect that it is a sacred site and that people who worship it and who are connected to its history should not have to fight for their basic rights to their own land. I am in opposition of TMT construction project.
**Date submitted:** 10/12/2021  
**Name:** Eric Luke  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Makawao, HI

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**Additional comments:** Have some integrity and just stop. It is not your place to do these things on the mountain.
**Date submitted:** 10/12/2021  
**Name:** Molly Mariko Hui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kamuela (Waimea), HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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**Additional comments:** A’OLE TMT
**Date submitted:** 10/12/2021  
**Name:** Randee Golden  
**I am:** non-Native Hawaiian  
**City, State:** Kapaʻau, HI

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**Additional comments:** We must protect this land for generations to come. Sacred places are sacred for a reason. It is way past time to listen to the Kanaka Maoli and environmentalists, and people like me who know we need to protect our watershed.
**Date submitted:** 10/12/2021  
**Name:** Summer Starr  
**I am:** non-Native Hawaiian  
**City, State:** Makawao, HI

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**Additional comments:** As an additional comment, I will add that I hold an undergraduate and Master’s Degree from UH Mānoa as well as a Master’s in Law and Policy from Vermont Law School. The manner in which the proponents of this project are going about this process is: 1. In violation of the Scientific Precautionary Principle (2) A continued legacy of leveraging Supremacist State Power in order to further desecrate and colonize. The time for bulldozing over the voices of the land, in the name of western science is over. History has taught us that the hubris of institution is something to be wary of. Mahalo for doing the right thing.
**Date submitted:** 10/12/2021  
**Name:** Audrey Wardach  
**I am:** non-Native Hawaiian  
**City, State:** Pā'ia, HI

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**Additional comments:** Protect the Mauna for the sake of its sacredness and for the sake of future generations. The mauna is a relative, and should be treated with the utmost respect. Let's focus the TMT efforts and budget on clearing away pollution and climate change instead; then everyone can see stars more clearly and sacred mountains can stay in peace.
Date submitted: 10/12/2021  
Name: Holly Price  
I am: non-Native Hawaiian  
City, State: Pittsburg, CA

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Angel Tengan  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Aiea, HI

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**Additional comments:** The halt of this project clearly means a lot to the indigenous people of Hawai‘i. As someone who is still fascinated by astronomy and supports its research, this is so much bigger than that. The land has already been damaged enough, and will only suffer more with the follow through of a plan like this. There are so many other places where a telescope like this would succeed, and not have to desecrate the sanctity of the land or destroy the ecosystem of it. Please permanently stop the construction of TMT on the Mauna.
**Date submitted:** 10/12/2021  
**Name:** Rachel Salvati  
**City, State:** San Diego, CA

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**Additional comments:**
Date submitted: 10/12/2021
Name: Emma Condet
I am: 
City, State: Grand Rapids, MI

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Additional comments: Please take into consideration the real and last effects building this unnecessary telescope will have on the people who’s ancestors have called this land home for thousands of years. You cannot be so heartless as to disregard that and allow that to go through. The world is watching and ultimately if this went through, you would go down in history as the villains you are. I don’t think it’s far fetched to call you villains when you are colonizing and stealing sacred land just the same as Christopher Columbus. Please respect the natives who’s land it is. Thanks you.
**Date submitted:** 10/12/2021  
**Name:** Jennifer Sicuranzo  
**I am:** non-Native Hawaiian  
**City, State:** Valhalla, NY

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**Additional comments:**
Date submitted: 10/12/2021
Name: Olivia Maynard
I am: non-Native Hawaiian
City, State: Marquette, MI

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Additional comments:
Date submitted: 10/12/2021
Name: Priscilla Meleisea
I am: non-Native Hawaiian
City, State: West Jordan, UT

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Additional comments: The indigenous people of this land have told you no, this is sacred to them. Be respectful of that no and stop. The fact that you are on stolen land, trying to take up more space on SACRED LAND is so disrespectful and violent. You should all feel ashamed of yourselves for ignoring the words and actions of the kanaka.
Date submitted: 10/12/2021
Name: Alice Zumbé
I am: Founder of environmental project „Bridge to Hawaii“
City, State: Düsseldorf, Germany

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Additional comments: The power of love It is all about power and it seems that the power of domination and money faces the power of love and can only lead to one solution: the experience shows that one side wins and thus the other loses. Here is the conflict on both sides. But when you feel connected to all people, you are not on one side and realize that the power of love is rooted in each one of us. And if you give it the priority then this means to make sure that everyone is comfortable, happy and satisfied and nobody comes to harm. Then it happens that someone changes the perspective because something does not feel right anymore and develops compassion for others. So much that contrary to his previous convictions he takes his influence in order to bring about social changes that create more peace in the minds & hearts of many. A victory for everyone.
Date submitted: 10/12/2021
Name: Carena Phillips
I am: non-Native Hawaiian
City, State: Waikoloa, HI

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Additional comments: I believe in the community and indigenous rights of the Hawaiian people, and this is desecration of their sacred lands. I do not support the Building of TMT, nor do my family or friends!
Date submitted: 10/12/2021
Name: Raven Begay
I am: non-Native Hawaiian
City, State: Fort Collins, CO

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Sophia Munoz  
**I am:** non-Native Hawaiian  
**City, State:** San Antonio, TX

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Kailey Kane  
**I am:**  
**City, State:** Aiea, HI

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**Additional comments:** For years you and your institution have ignored us in the name of money and big corporations. Now we are pleading, please hear our voices and our pain. End any further desecration of places that have been sacred to us since our kūpuna set their feet on this land.
Date submitted: 10/12/2021
Name: Nikki Spears
I am: White
City, State: Wilmington, NC

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**Additional comments:** Please allow the Hawaiian native indigenous people to peacefully enjoy their home. Please end the destruction of their homeland and the nature of the Mauna. Let it be.
**Date submitted:** 10/12/2021  
**Name:** Olivia Taylor  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/12/2021  
Name: Clara Martorano  
I am: non-Native Hawaiian  
City, State: , VT

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Additional comments: Protect Mauna Kea!
**Date submitted:** 10/12/2021  
**Name:** Lili‘u Tomasello  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

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**Additional comments:**
Date submitted: 10/12/2021
Name: Kaleokalani Kailiwai
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: Look else where to put this telescope. America has done enough damage already.
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Additional comments:
Date submitted: 10/12/2021
Name: Malia Williams
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pāhoa, HI

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Additional comments:
Date submitted: 10/12/2021  
Name: Imani Altemus-Williams  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/12/2021  
Name: Sylvie Lee  
I am: non-Native Hawaiian  
City, State: Ookala, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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**Additional comments:**
Date submitted: 10/12/2021
Name: Kyoko Bristow
I am: non-Native Hawaiian
City, State: Los Angeles, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: No to TMT. Follow the lead of Kanaka Maoli.
Date submitted: 10/12/2021  
Name: Makayla Willis  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Cecilia Reilly  
**I am:** Irish  
**City, State:** Wailuku, HI

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**Additional comments:**  Everyone knows all the good pictures come from probes!! There's NO SENSE in risking the top of the watershed in the middle of the Pacific Ocean for ANY telescope and all the rest shld get cleaned up rm! No was emphatically the answer by kanaka maoli on THEIR LAND! No means NO!!
**Date submitted:** 10/12/2021  
**Name:** Joe Allen  
**I am:** non-Native Hawaiian  
**City, State:** College Station, TX  

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Lori Kehaulani Pa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Edgewood, VA

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**Additional comments:** Please listen to the Hawaiians and stop giving out land away
Date submitted: 10/12/2021
Name: Tasha Napaepae
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:–For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: A’ole (NO) TMT … EVER!
Date submitted: 10/12/2021
Name: Melaina Lenzi
I am: no answer
City, State: Newport, WA

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Additional comments: Mauna Kea belongs to the indigenous people of Hawaii. They have the legal, historical and inherited right to protect their land. The Kanaka Maoli people and their protection of the sacred mountain of Mauna Kea must be respected. We demand any construction to cease. I do not consent to the building of the thirty meter telescope on Mauna Kea.
Date submitted: 10/12/2021
Name: Naomi Kim-Davis
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mililani, HI

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Additional comments:
Date submitted: 10/12/2021  
Name: Jeremy Lemke  
I am: Native Hawaiian and non-Native Hawaiian  
City, State: Rancho Cucamonga, CA

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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Malialani Dullanty  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Laupahoehoe, HI

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**Additional comments:** My family lives in the shadow of the Mauna. We rely on her. And using her for development puts her and us in danger.
Date submitted: 10/12/2021
Name: Ros Paul
I am: non-Native Hawaiian
City, State: Pleasant Hill, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: For many years Native Hawaiians have rejected this plan for many reasons including its effect on the watershed. Water is our most important resource. It’s crucial we listen.
**Date submitted:** 10/12/2021  
**Name:** Maggie Schultz  
**I am:** non-Native Hawaiian  
**City, State:** Kīhei, HI

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**Additional comments:** I strongly suppose TMT being built on sacred land. The University of HI has a responsibility to serve and the community which strongly applies the construction of TMT.
**Date submitted:** 10/12/2021  
**Name:** Ranette Puna Robinson  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** I am one of 38 arrested for obstruction in 2019 and one of the four so far that was found not guilty. Please remember that the Mauna is in a Conservation District Zone and tmt should not be allowed in this type of zoning district. Enough is enough!! Mahalo.
**Date submitted:** 10/12/2021  
**Name:** Jezelyn Gonsalves  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Lahaina,

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**Additional comments:**
Date submitted: 10/12/2021
Name: Luana Rivera Palacio
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Santa Ana, CA

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Additional comments: Protect the Sacred - A’ole TMT
Date submitted: 10/12/2021
Name: Sharon Holck-Lono
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Indianapolis, IN

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Additional comments: The rights of our people have been pushed down for far too long. They have build too many telescopes already. They can find somewhere else. Leave our mauna for our people and for our future generations.
Date submitted: 10/12/2021
Name: Jennifer Mitchell
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: No more desecration on Mauna Kea- NO TMT on Mauna Kea!
Date submitted: 10/12/2021  
Name: Alyssa S  
I am: non-Native Hawaiian  
City, State: Williamstown, NJ

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**Additional comments:** Please listen to native Hawaiians and halt the building of TMT.
Date submitted: 10/12/2021
Name: Meredith Powell
I am: no answer
City, State: Franklin, MA

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Additional comments:
Date submitted: 10/12/2021
Name: Lisa Grandinetti
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Date submitted: 10/12/2021
Name: H Guzman
I am: no answer
City, State: Honolulu, HI

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Additional comments: You’ve repeatedly stated that you want to hear from the native Hawaiian community, yet, when a majority of us voice oppositions to ANY and ALL CONSTRUCTION on the Mauna, you ignore us. You look the other way. Native Hawaiians and local people oppose the building of TMT or any other works on the Mauna because the Mauna holds religious value to the very people whose land you live on. This is a form of colonization and disrespect as you desecrate and show clear ignorance towards native beliefs. The very people who are far to often left behind by the government. DO NOT do any more construction on the Mauna because it is the just and respectful thing to do. Prove that you are listening.
Date submitted: 10/13/2021
Name: Eric Salazar
I am: non-Native Hawaiian
City, State: New York, NY

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/13/2021  
**Name:** Kenneth Conklin, Ph.D.  
**I am:** Kanaka Haole  
**City, State:** Kaneohe, HI

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**Additional comments:** I am here making use of a form circulated by ethnic Hawaiian opponents to TMT, through which they hope many people will submit the points stated above even without understanding them. Most of those points are false or misleading. Here are my own comments. I want to encourage you advisors and decision-makers to reject the racial divisiveness of the protestors, and to support the construction of TMT with appropriate safeguards for environmental protection and standards for employment and visitation that will not mandate promulgation of or propagandizing for any ethnocentric cultural or religious views. The Hilo/Kona newspapers quote the Ka Lahui spokesperson speaking at a recent hearing, who concluded: "Any plan for the future of the mauna has to come from Kanaka Maoli." Of course that is false as a matter of fact, and wrong as a matter of morality. It displays the racism and routine arrogance of the ethnic Hawaiian race-nationalists, whose creation legend is part of their religious fascism in which they think every parcel of land is sacred to their gods and their ethnicity. Of course they have a right to whatever religion they choose to believe in -- but the rest of us have no obligation to knuckle under to them. In our society with many races, cultures and religions, we all must fight to protect full equality for everyone. We are all equal in the eyes of God(s) and we should all be treated equally under the law by our government. Hawaiian race-nationalists think people with a drop of the magic blood have a right to set land-use policy and govern Hawaii because their creation legend says they are genetically children of the gods and brothers/sisters to the land in a way nobody else can ever be who lacks a drop of that blood. The Hawaiian version of critical race theory says Whites are inherently racist colonialist oppressors and ethnic Hawaiians are their main victims with a right to take control by any means.
necessary. People in Hawaii are horrified at White-nationalism on the mainland, but strangely silent about Hawaiian race-nationalism here. The fascists say "Any plan for the future of the mauna [or any other part of Hawaii] has to come from Kanaka Maoli." These zealots will never abide by decisions made by multiracial legislatures or government hearings. What they say should be treated as logically irrelevant to decision-making. They have freedom to say it, but the rest of us have the right to reject it.
Date submitted: 10/13/2021
Name: Cara Fernandez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
Date submitted: 10/13/2021
Name: Patricia ‘Aunty Momi’ Greene
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua-Kona, HI

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Additional comments: On the Day Before My Hawaiian Mother Died, 4-20-16, She Asked of Me “ Momi NEVER STOP SAVING OUR MAUNA KEEP GOING !” She Suffered as Being Hawaiian- The Prejudices Never Stopped as Her Mother was Called “ BLACK MARY OF PUNALUU ☠” The WAR of Pearl Harbour as She Rode her Roller Skates up Punchbowl where they Also had another Home She Told Me She Waved at an Airplane As It Flew Over Her on His Way To BOMB PEARL HARBOR ☠ ☠ ☠ ☠ STOP THIS CONTINUED DESTRUCTION OF OUR LANDS WHICH FEED US ALL WATER NECESSARY TO SURVIVE !OUR AHUPUA’A WAS ILEGALY STOLEN then SOLD FROM MY GRANDMOTHER MARY JUST 8 YRS OLD PLEASE STOP KILLING THE MERE 20,000 OF US HAWAIIAN NA KANAKA LEFT FROM OVER 600,000 When COOK BROUGHT DISEASES THAT KELLED US…. COLONIALISM DID THE REST OF THE GENOCIDE CONTINUED UNTIL NOW … STOP THIS ILLEGAL STEAL OF OUR RECOGNIZED KINGDOM BY 60 COUNTRIES FROM 1800.
Date submitted: 10/13/2021
Name: Sofia Franco
I am: Foreigner
City, State: Lisbon, Portugal

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
- Over half a million Kanaka Maoli, Hawai‘i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.
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Additional comments: As someone who is a scientist and at the same time a student of Hawaiian culture, I am appalled at how UH is managing this. The expected benefits from the TMT or the investment it brings would never be enough to make it worth erasing and further damaging such a sacred place. Furthermore, the world has its eyes on UH and Mauna Kea. Not listening to kanaka maoli and disrespecting the wishes of the native people of Hawai‘i is sending a message that they are not important, and eventually other sites and other natives are not important as well, when set against money. Please revise the plan, and do not allow the TMT to be built on the Mauna.
Date submitted: 10/13/2021
Name: Cynthia Chun
I am: non-Native Hawaiian
City, State: ʻEwa Beach, HI

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Additional comments:
Date submitted: 10/13/2021  
Name: Carla Compagnoni  
I am: non-Native Hawaiian  
City, State: Mississauga, Canada

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Additional comments: Sacred lands should never be desecrated in the name of science, or any reason for that matter.
**Date submitted:** 10/13/2021  
**Name:** Maringi James  
**I am:** non-Native Hawaiian  
**City, State:** Rotorua, New Zealand

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**Additional comments:**
Date submitted: 10/13/2021
Name: Nohea Kaolulo
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: Do not build the telescope on Mauna Kea. Listen to the people. Respect our people. Do not desecrate our sacred lands. Do not pollute our resources. No means no.
**Date submitted:** 10/13/2021  
**Name:** Sam King  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** The TMT is one of the greatest projects to ever come to Hawaii. It will diversify our economy and bring jobs and scholarships for our keiki. It will set up Hawaii as the premier astronomy location for decades to come. Please push forward with the project. The protesters have made clear that they are not interested in talking. Please do what is best for the people of Hawaii and build TMT.
**Date submitted:** 10/13/2021  
**Name:** Vivian-Malia Faagata  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Away for School,

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X  

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**Additional comments:** Bombing, more telescopes while homelessness is a problem. As a Kanaka Maoli, I am asking to not extend the lease after the expiration in 2033.
**Date submitted:** 10/13/2021  
**Name:** Vicky Robbins  
**I am:** non-Native Hawaiian  
**City, State:** Pāhoa, HI

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Additional comments: Send proof of title to me - @ X. Alii Nui Moi Hawaii Norman Akahai Keanaaina… I will do my best to resolve this matter…
Date submitted: 10/13/2021
Name: Fabian Kaulukukui-Heloca
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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Additional comments: Shame on you for thinking that you know what should be done for us! We speak for ourselves. I am Hawaiian and I say NO to TMT!
**Date submitted:** 10/13/2021  
**Name:** Victoria Brown  
**I am:** non-Native Hawaiian  
**City, State:** San Diego, CA

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**Additional comments:** Do not build here.
Date submitted: 10/14/2021
Name: Frank Oliveira
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hana, HI

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Additional comments: The abuse n disrespect needs to end. PAU !!!
Date submitted: 10/14/2021  
Name: Kawehi Javar  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hilo, HI

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Additional comments:
**Date submitted:** 10/14/2021  
**Name:** Debra Javar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Captain Cook, HI

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**Additional comments:** Mauna Kea is our sacred, spiritual site that has many cultural and spiritual significance to us Native Hawaiian people. I STRONGLY OPPOSE the building of TMT on our sacred Mauna Kea. Do not further desecrate our mountain by building TMT or any other telescope on it. Mahalo.
**Date submitted:** 10/14/2021  
**Name:** Graciela Tafoya  
**I am:** non-Native Hawaiian  
**City, State:** Santa Cruz, CA

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**Additional comments:**
**Date submitted:** 10/15/2021  
**Name:** Derek Lee  
**I am:** no answer  
**City, State:** Rowland Heights, CA

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**Additional comments:**
**Date submitted:** 10/15/2021  
**Name:** Noel Livingston  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/15/2021
Name: Francisco Javar
I am: no answer
City, State: Captain Cook, HI

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Additional comments: I OPPOSE building TMT on our Mauna Kea. It is a sacred religious, cultural site. Thank you.
**Date submitted:** 10/16/2021  
**Name:** Momi Sales  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** ‘Ewa Beach, HI

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**Additional comments:** No to building anything on the mauna. Our Ali‘i Nui would not have built it unless it benefited its native people. They’ve known what was needed to be known way before todays modern technologies.
Date submitted: 10/17/2021
Name: Melody Hazel
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I oppose the master plan.
**Date submitted:** 10/17/2021  
**Name:** Elizabeth Altum  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Irving, TX

### Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan

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**Additional comments:** I do not consent to the building of the thirty meter telescope on Mauna Kea.
**Date submitted:** 10/17/2021  
**Name:** Malia Marquez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Maunalua, Oʻahu, HI

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**Additional comments:** The people have spoken but our voices have fallen upon deaf ears. Enough is enough. UH has mismanaged our mauna from the 60s. NOW that we are more aware, we can oppose such a monstrosity such as TMT. Sometimes it's not about $$. It's about doing the right thing. It's time to mālama our mauna.
Date submitted: 10/18/2021
Name: Cindy Freitas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: This should have be in the planning...... HRS §711-1107 Desecration. (1) A person commits the offense of desecration if the person intentionally desecrates: (a) Any public monument or structure; (b) A place of worship or burial; or (c) In a public place the national flag or any other object of veneration by a substantial segment of the public. (2) "Desecrate" means defacing, damaging, polluting, or otherwise physically mistreating in a way that the defendant knows will outrage the sensibilities of persons likely to observe or discover the defendant's action. (3) Any person convicted of committing the offense of desecration shall be sentenced to a term of imprisonment of not more than one year, a fine of not more than $10,000, or both. [L 1972, c 9, pt of §1; gen ch 1993; am L 2002, c 198, §1]n
Date submitted: 10/19/2021
Name: Keala Fung
I am: no answer
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/19/2021  
**Name:** Steven Thomas  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, HI

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Date submitted: 10/20/2021
Name: Julie Javar
I am: non-Native Hawaiian
City, State: Kea‘au, HI

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Additional comments:
**Date submitted:** 10/20/2021  
**Name:** Kapono Pono  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Na‘alehu, HI

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**Additional comments:** A‘ole TMT nuff pau already you have a lot stop being greedy
Date submitted: 10/20/2021
Name: Pono Javar
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Ka‘u, HI

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Additional comments: E’A!
Date submitted: 10/20/2021
Name: Shaun Coleman
I am: Born & raised native to the aina
City, State: ,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Also don't for the u.s illegal occupation we aren't Lolo a joint resolution is not a treaty of annexation so stop feeding everyone lies, lies, lies what's wrong with you idiots do the right thing leave the aina's alone already better yet go home and build on top your guys land.
**Date submitted:** 10/20/2021  
**Name:** Francisco Javar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kea’au, HI

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**Additional comments:**
Date submitted: 10/21/2021
Name: Mark Martin
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments: A‘ole TMT
**Date submitted:** 10/22/2021  
**Name:** Dana Keawe  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mt. View, HI

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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. **X**

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. **X**

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### Additional comments:
Decommission, remove telescopes & All structures and let Mauna Kea rest and heal for the next 20years
Date submitted: 10/24/2021
Name: Marissa Ornellas
I am: non-Native Hawaiian
City, State: Kapa‘a, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/24/2021
Name: Stanley Ornellas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapa‘a, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
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Additional comments: A‘ole, TMT
**Date submitted:** 10/24/2021  
**Name:** Carolyn Ornellas  
**I am:** non-Native Hawaiian  
**City, State:** Kapaʻa, HI

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**Additional comments:** A'ole, TMT
**Date submitted:** 10/25/2021  
**Name:** Hanalei Vierra  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** San Diego, cA

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**Additional comments:** A'ole, TMT!!!
Date submitted: 10/26/2021
Name: Abigail Rose
I am: non-Native Hawaiian
City, State: Kapolei, HI

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Additional comments: The University of Hawai‘i should divest from Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** Roslynn Cummings  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kalāheo, Hawai‘i Nei

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**Additional comments:** Manawa from the past in the present for the future I stand for Mauna a Wakea I stand with Wakea and a giant further desecration! E Ku Kou Makou Makemake No Ka Āina “True desire to stand for āina” because he āina Hawaii I am of HiWai’I Aloha No Manawaiakea
**Date submitted:** 10/26/2021  
**Name:** Keatan Kamakaiwi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Keawe Kalama  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Cheyenne Adams
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Philippa Bell  
**I am:** non-Native Hawaiian  
**City, State:** Kailua, O‘ahu,

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/26/2021
Name: Nathan Yuen
I am: no answer
City, State: Honolulu, HI

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Additional comments: The University of Hawaii has seriously mismanaged Mauna Kea for decades. The University has an inherent conflict of interest and has violated the conservation district by developing an industrial zone of telescopes at the summit. The University of Hawaii has no business managing the delicate ecosystem at the summit of Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** Carrie Ann Shirota  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** Aloha, I am an attorney and 4th generation resident in Hawai‘i, with my family immigrating from Okinawa, Madeira and the Azores. I am concerned about the current process limiting discourse and community engagement relating lease extensions on Mauna Kea amidst the COVID-19 pandemic. This contravenes acting in good faith, and casts suspicion over the entire process. Beyond process, there is absolute disregard of the rights of Kanaka Maoli under state, federal and international law. Would you build the TMT on top of the Sistine Chapel, the Punchbowl Or Arlington Cemetry, a temple, mosque or synagogue? We are simply asking for equality and equity, an respecting that Mauna Kea is a sacred place. As the adage goes, “actions speaks louder than words. If you want to be regarded as an Indigenous place of learning, then start by respecting this sacred site, and stop all plans for the TMT. Anything less is not conciliation, but an act of War against Kanaka Maoli.
**Date submitted:** 10/26/2021  
**Name:** Tiare HewLen  
**I am:** non-Native Hawaiian  
**City, State:** Kealakekua, HI

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**Additional comments:** Why is there continual misrepresentation of local support for the building of the TMT? There is not much support and our local community continue to be vocal because we have seen how this mauna and area around Mauna Kea is mismanaged. UH system does not appear to service our community but rather to have its own agenda of profiting foreign entities over the decades of mismanagement many local groups have pointed out!
**Date submitted:** 10/26/2021  
**Name:** Shaeralee-Tiare Manosa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Molokaʻi,  

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Shannon Oberle  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Punalu, HI

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**Additional comments**: The crux of the matter is UH has neither consent nor jurisdiction to build atop Maunakea, which is designated conservation land. Maunakea is a large aquifer of life-sustaining water.
**Date submitted:** 10/26/2021  
**Name:** Sage Nicholson  
**I am:**  
**City, State:** Kapaʻau, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Paolo Rista  
I am: non-Native Hawaiian  
City, State: Haleiwa, HI

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- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
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- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!
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Additional comments: Eventually there will be no sacred land left. Time to stop this desecration. Time to save the little that is left. For science there are good alternatives else where. Few or no extra jobs will be created for locals and Hawaiians.
**Date submitted:** 10/26/2021  
**Name:** Christopher Mackillop  
**I am:** no answer  
**City, State:** Kapaʻau, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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**Additional comments:** Please stop all future development on the Mauna. UH is a horrible steward of this unique sacred ecosystem.
**Date submitted:** 10/26/2021  
**Name:** Christopher Mackillop  
**I am:** non-Native Hawaiian  
**City, State:** Kapaʻau, HI

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Date submitted: 10/26/2021
Name: Duane Medeiros
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: All foreign entities Who have been ileagally occupying MaunaKea have no intention to conserve Maunakea as respectable stewards of the Ahupuaa. As my Aunt Hannah Kane would always say In years past, the Land is the Kanaka Peoples from the Mountain top all the way down to the Sea. No Consent, and No TMT On Maunakea!!!
Date submitted: 10/26/2021  
Name: Kalei Fragas  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Puna, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Karima Daoudi  
**I am:** non-Native Hawaiian  
**City, State:** Oʻahu, HI

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**Additional comments:** Native Hawaiians have had their land, culture and livelihoods threatened for many decades from colonialism and militarism. It's time to listen to and respect the wishes of the indigenous people of Hawaii.
**Date submitted:** 10/26/2021  
**Name:** Gabriel Sebastian Correa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pāhoa,

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**Date submitted:** 10/26/2021  
**Name:** Kristie Leiato  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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Additional comments: As a student at UH @ Mānoa, I’m appalled that funds are being funneled into this project. UH claims to be a Hawaiian place of learning but is silencing the voices of the people they claim to represent. The obvious discontent of natives and others from around the world show that the institution does not support kanaka maoli. I strongly believe that the removal of TMT is directly tied to the survival of Hawai‘i in the wake of climate change. Although the construction of the telescopes are said to be helping science and technology, it’s not what we need today. We need the money and resources being funneled into this project to go towards revitalizing the a‘āina. The answers to our current climate crisis won’t be in space. For decades kanaka maoli have been making their voices heard in opposition, it’s time that you all listen. The proven ecological damage that comes from construction is not worth whatever it is we are looking for in the sky. The funds need to be invested in our environment, the ocean and the ‘āina. Protect the pu‘uhulhulu, the ‘ōhia trees, the coral, the fish, the streams, and all other aspects of our earth that we stand to lose in coming years. This is not how we diversify the economy. That can only be done when capitalism is no longer serving the white supremacist agenda, and this project perpetuates the values of that agenda. If UH really wants to diversify the economy, they’d find alternatives opportunities for environmental remediation guided by kanaka maoli knowledge. We know this land and what’s needed for it to thrive, and to ensure our survival you need to listen to us. This project needs to be stopped and funding discontinued immediately.
Date submitted: 10/26/2021  
Name: Faith Rogers  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: SangHee Cha
I am: Earth resident
City, State: Placenta, CA

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Additional comments:
Date submitted: 10/26/2021
Name: Nahea Lopez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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**Date submitted:** 10/26/2021  
**Name:** Celine Daclison  
**I am:** non-Native Hawaiian  
**City, State:** ʻEwa Beach, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Elaine Wyatt  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Victor Kanashiro  
I am: non-Native Hawaiian  
City, State: Belleville, NJ

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Additional comments:
# Date submitted: 10/26/2021

**Name:** Morgan Sharman  
**I am:** non-Native Hawaiian  
**City, State:** Kīhei, HI

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Date submitted:  10/26/2021  
Name:  Anfisa Kuzmina  
I am:  non-Native Hawaiian  
City, State:  Hanalei, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Mattison Priest  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Date submitted:** 10/26/2021  
**Name:** Mizuki Onitake  
**I am:** non-Native Hawaiian  
**City, State:** Tokyo, Japan

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Olena Kelii  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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Date submitted: 10/26/2021
Name: Maile Coberly
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Cian Ying  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Tinamarie Cura
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: ʻEwa Beach, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Makena Gallagher
I am: non-Native Hawaiian
City, State: Haleiwa, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Kimberly Hokama  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** ʻEwa, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Ava McHugh  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Claud Sutcliffe
I am: non-Native Hawaiian Cherokee
City, State: Waimea, HI

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Additional comments: UH has failed as Stewart of Mauna Kea!
Date submitted: 10/26/2021
Name: Kalei Raher
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Cheyenne Langamin  
**I am:** non-Native Hawaiian Native American (Navajo)  
**City, State:** Haleiwa, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kayla Acoba
I am: non-Native Hawaiian
City, State: Hilo, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Austin Chang  
**I am:** Local Hawaiian with ancestors from the plantation era in all 4 counties.  
**City, State:** Hilo, HI

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**Additional comments:** I don’t think anyone will actually read this, and that these comments are just a front to appear like you care. If you really wanted our opinions you wouldn’t be afraid to open up your YouTube comments. I believe there’s a solution you’re not seeing, but it seems like you aren’t willing to consider anyone else’s view seriously. Good luck and I hope you learn something from this.
**Date submitted:** 10/26/2021  
**Name:** Cerdan Hew Len-Kekahuna  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Sarah Hoyle  
I am:  
City, State: Berkeley, CA

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Kanani DeVincet-Rodriguez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wahiawa, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Misty Silva
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mililani, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Bailey Sry
I am: non-Native Hawaiian
City, State: Hana, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Ernest Cabatingan  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku, HI

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</tr>
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Rikt Akanmī  
**I am:** non-Native Hawaiian and Loochooan aka Native Okinawan  
**City, State:** Hilo, HI  

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**Additional comments:** Kū Kiaʻi Mauna!
Date submitted: 10/26/2021  
Name: Matthew Kaho‘ohanohano  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kaaawa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Manato Fukuda
I am: non-Native Hawaiian
City, State: , Japan

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
Date submitted: 10/26/2021
Name: Daniella Hidalgo
I am: non-Native Hawaiian
City, State: Wahiawā, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Kaleiheana Stromcrow  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapu‘euhi, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |  
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**Additional comments:**
Date submitted: 10/26/2021
Name: Joshua Paul Acebo
I am: non-Native Hawaiian
City, State: Wahiawā, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
Date submitted: 10/26/2021
Name: Sherry Schafer
I am: no answer
City, State: Los Angeles, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Leslie Young
I am: non-Native Hawaiian
City, State: X, Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: The native Hawaiian people have been very clear on the matter of the Mauna. It is not worth the money to hurt the Hawaiian community.
**Date submitted:** 10/26/2021  
**Name:** Christian Agsalog  
**I am:** non-Native Hawaiian  
**City, State:** Haiku, HI  

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Jodee Inouye-Agsalog  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Haiku, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kye Harford
I am: non-Native Hawaiian
City, State: Hilo, HI

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Date submitted: 10/26/2021  
Name: Anela Summers  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Seattle, WA

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Additional comments:
Date submitted: 10/26/2021
Name: Alela Orris
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wahiawā, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Davis Lau
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Meleanaonālani Asams
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hāwī, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Pili Serrao
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu,

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Additional comments:
Date submitted: 10/26/2021
Name: Chantelle Dikilato-Rogers
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Additional comments: Please Listen and do what’s right!! Mauna Kea is a Special place. We do not want the telescope and never will. We are not against Science. We are against the location. Mahalo
Date submitted: 10/26/2021
Name: Koutaro Yuuji
I am: Native Okinawan
City, State: Hilo,

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Additional comments: let's be respectful as haole to kanaka maoli!
Date submitted: 10/26/2021
Name: Prestyn Timas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Keolakawai Spencer
I am: Native Hawaiian and Uchinaanchu aka Native Okinawan
City, State: Nagoya, Japan

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**Date submitted:** 10/26/2021  
**Name:** Emily Pahinui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waialua, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: KJ Alexander
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Bonney Lake, WA

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Additional comments: As someone who has been forced from their land, had their family burial grounds desecrated for a visitors center, and feel the loss of my culture deep within my bones, I ask you to stop choosing violence kanaka maoli. Stop harming us with every decision made for our land. For once, listen to us and to our pain have some decency and integrity.
Date submitted: 10/26/2021
Name: Cliff Watson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapolei, HI

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**Date submitted:** 10/26/2021  
**Name:** Keegan Kamaunu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Centralia, WA

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**Additional comments:** Going to college in WA state, I hear and watch what is happening to the Hawaiian islands. It’s saddens me that they ant yo build more telescopes on that beautiful mountain. I say no to tmt. Aloha.
**Date submitted:** 10/26/2021  
**Name:** Olivia Nguyen  
**I am:** non-Native Hawaiian  
**City, State:** Haiku, HI

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**Additional comments:** After residing on Maui for eight years and being lucky enough to behold the beauty that is the Hawaiian Islands, I have come to understand that the care of the land and waters are best decided by Native Hawaiians and Hawaiian Nationals, not U.S. settlers who have consistently exploited finite resources for profit to the detriment of community wellness. Decades of mismanagement of Mauna Kea must be addressed before more construction is even considered. It makes no sense to me to build more without the consent of the Kingdom without at least carrying down the decommissioned telescopes. Even the Canary Islands are finding TMT to be a bad deal for their community. I also recognize that TMT and UH are not above racist nor genocidal narratives to further their means in their public relations. TMT and UH must be held accountable for purporting that this is a matter of science and technology versus "superstition" or "religion." This reduction is used to depict Natives as barbarians rather than countrymen who achieved a literacy rate in the 90 percentile in the latter half of the 1800s. This part of history is being made more and more visible these days. Beware to all who dehumanize for their means..
**Date submitted:** 10/26/2021  
**Name:** Sean Kamaunu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:** I oppose tmt.
**Date submitted:** 10/26/2021  
**Name:** Kyle Kamaunu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

| Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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| Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:** No to tmt.
**Date submitted:** 10/26/2021  
**Name:** Randi Kamaunu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:** No tmt on Maunakea please.
Date submitted: 10/26/2021
Name: Mary Kok
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Keaʻau, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Mahina CHILLINGWORTH  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Wahiawā, HI

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Additional comments: Build it somewhere else!
Date submitted: 10/26/2021
Name: ʻAinoa Shaw
I am: no answer
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Kayla Shaw  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Joanna Leialoha  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** X King Avenue,

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**Additional comments:** Stop building on the Mauna
Date submitted: 10/26/2021
Name: Pat Lind
I am: non-Native Hawaiian
City, State: Shasta Lake City,

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Additional comments: Sacred sites of such caliber As the Mauna Kea need to be respected and not just no more telescope built but current ones dismantled and removed.
Date submitted: 10/26/2021
Name: Sam Ikehara
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Kahiau Wallace  
I am: Native Hawaiian and Irish, Tongan  
City, State: Kahana, Oʻahu,

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Additional comments:
Date submitted: 10/26/2021
Name: Arthur Kalā
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: X ala Moana Blvd,

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Additional comments: Terrible management UH
Date submitted: 10/26/2021
Name: Kelsey Ann Mamizuka
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahuku, HI

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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
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Additional comments: A'OLE TMT
Date submitted: 10/26/2021
Name: Mason Calimlim
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahuku, HI

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Additional comments: A'ole TMT
Date submitted: 10/26/2021
Name: Tommy Copeland
I am: Christchurch, New Zealand

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Additional comments:
Date submitted: 10/26/2021  
Name: Guy Chenoweth  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Anchorage, AK

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Additional comments: I understand the scientific impact TMT would give, but it does not outweigh the damage it would do to the environment.
**Date submitted:** 10/26/2021  
**Name:** Karenna Meredith  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Arlington, VA

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**Additional comments:**

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**Date submitted:** 10/26/2021  
**Name:** Jordan Nishina  
**I am:** non-Native Hawaiian  
**City, State:** Kaneohe, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Marge Akana  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: ʻEwa, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Renee Hoomanawanui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pāhoa, HI

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**Additional comments:** The land belongs to the Hawaiian people. PERIOD
Date submitted: 10/26/2021
Name: Laʻakea Yoshida
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Seattle, WA

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Anthony Calimlim  
**I am:** non-Native Hawaiian  
**City, State:** Kahuku, O’ahu, HI

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**Additional comments:** I oppose TMT
**Date submitted:** 10/26/2021  
**Name:** Keoni Wailani  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu,

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Laurie Akana  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu,

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/26/2021
Name: Ramsey Calimlim
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahuku, HI

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Additional comments: I OPPPOSE TMT being built on MaunaKea
Date submitted: 10/26/2021  
Name:  Kaiulani Lambert  
I am:  Kanaka Maoli (aka Native Hawaiian)  
City, State:  Kaneohe, HI  

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:**

Date submitted: 10/26/2021
Name: Kelly Kwak
I am: Korean
City, State: Honolulu, HI
Date submitted: 10/26/2021
Name: Tara Coyote
I am: non-Native Hawaiian
City, State: Kapa‘a, HI

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Date submitted: 10/26/2021
Name: Pua Pinto
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments:
Date submitted: 10/26/2021
Name:  Lori Walker
I am:  Kanaka Maoli (aka Native Hawaiian)
City, State:  Kahaluu, O‘ahu, HI

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Additional comments:  You know all the reasons to reject this master plan and discontinue UH’s leasing and management of this sacred place. Mine won’t be new to you. The onus is yours to justify how UH has earned a renewed lease. It is a privilege to manage this mauna. Prove to us why UH should continue to hold it.
Date submitted: 10/26/2021
Name: Avalon Keene
I am: no answer
City, State: Benicia, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: - For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Kalei Sine  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** My aunty told me that when she was in college they were fighting the construction of a different telescope at the time. Does it seem right that 20 something years later to have to fight against the construction of yet another telescope?? When will it stop? Have you not taken enough land and resources already?? PLEASE PLEASE DO NOT DO THIS. A’OLE!!!!!!
Date submitted: 10/26/2021
Name: Lisa Branco
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Buckley, WA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: No TMT!!
**Date submitted:** 10/26/2021  
**Name:** Annelise Houston  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Additional comments:** The Hawaiians have spoken, enough telescopes on their sacred mountain. Move on to helping our community not astronomers again.
**Date submitted:** 10/26/2021  
**Name:** Elizabeth Lovejoy-Yundt  
**I am:** non-Native Hawaiian  
**City, State:** Pāhoa, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Alika Seki
I am: non-Native Hawaiian
City, State: Kahului, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Laura Ramirez
I am: non-Native Hawaiian
City, State: Kapaʻa, Kauaʻi, HI

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Additional comments: I do Not Consent to TMT. UH has No Jurisdiction over and No Exclusivity over the access road to Mauna Kea. No More Thievery and Extended leases of Hawaiian lands!
Date submitted: 10/26/2021  
Name: Kahealani Keahi  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Tehani Gionson  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waikaloa, HI  

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Robert Willing  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hauula, HI

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**Additional comments:** I do not consent to the building of the TMT. I am completely against any more desecration of Maunaawakea.
Date submitted: 10/26/2021  
Name: Roy Hoffman  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Bedford, TX

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.  

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Additional comments:
Date submitted: 10/26/2021
Name: Reanna Serikawa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Gina Ciallella
I am: Friend to the Hawaiian people
City, State: Swedesboro, NJ

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Additional comments:
Date submitted: 10/26/2021  
Name: Jonah Cummings  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Aiea, O‘ahu, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Taylor Warner  
**I am:** non-Native Hawaiian  
**City, State:** Salt Lake City, UT

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kaydee Park
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI

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Date submitted: 10/26/2021  
Name: Hope Benziger  
I am: White  
City, State: Oʻahu, HI

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Additional comments: Please listen.
Date submitted: 10/26/2021
Name: Tiana Mahina Grace Flores
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Moʻiliʻili, Honolulu, Oʻahu, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: As an institute that claims to be a “Native Hawaiian Place of Learning”, I urge UH to hold true to that promise by listening to Native Hawaiians. This Hawaiian joins with the countless others who say aʻole! We do not consent to the construction of the Thirty Meter Telescope upon Mauna a Wākea. Mahalo.
Date submitted: 10/26/2021  
Name: Dextet Burns  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Haiku, Maui, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:**
Date submitted: 10/26/2021
Name: Jenny Lynn
I am: non-Native Hawaiian
City, State: Waiohuli,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Matthew Kwock
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments: I stand with kanaka maoli! Non Hawaiians for Hawaiians!
Date submitted: 10/26/2021  
Name: Emily Lo  
I am: non-Native Hawaiian  
City, State: Oakland, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!  

X

Additional comments:
Date submitted: 10/26/2021
Name: Savannah Mattos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Chandler, AZ

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai'i's native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

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Additional comments:
Date submitted: 10/26/2021
Name: Philip Morales
I am: no answer
City, State: Wai‘anae, Kingdom of Hawai‘i

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.

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Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: Naive Hawaiians all say no. What part of no don’t you understand? You guys just found a planet in a galaxy far away, so what now? This discovery, and any other future celestial discoveries, does nothing for the current problems on this planet like the pandemic, world wide shortages, Kanaka Maoli suffering from drug and alcohol abuse and Kanaka who cannot even afford to live in their own homeland because their land keeps being turned over to the highest bidder. So, A‘OLE TMT and UH, A‘OLE!
**Date submitted:** 10/26/2021  
**Name:** Yuko Unger  
**I am:** non-Native Hawaiian  
**City, State:** Chestnut Hill, MA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai'i's native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no! | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH! | X |

**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Philip Morales  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai‘anae, Kingdom of Hawai‘i

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | ✗  
---|---  
For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. |

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | ✗  
---|---  
There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. |

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There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. |

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---|---  
On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public, YET despite decades of Hawai‘i’s native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority. |

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | ✗  
---|---  
The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands. |

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | ✗  
---|---  
Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no! |

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Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH! |

**Additional comments:** Naive Hawaiians al say no. What part don‘t you understand. You guys just found a planet in a galaxy far away, so what now? This discovery does nothing for the current problems on this planet like the pandemic, world wide shortages, Kanaka Maoli suffering from drug and alcohol abuse and Kanaka who cannot even afford to live in their own homeland because their land keeps being turned over to the highest bidder. So, A‘OLE TMT and UH, A‘OLE!
Date submitted: 10/26/2021
Name: Koa Young
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kōloa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

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Additional comments: Stop destroying and ignoring traditional Hawaiian culture
Date submitted: 10/26/2021
Name: D. Guitang
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pearl City, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

- There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.

- On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai'i's native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.

- The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

- Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!

Additional comments:
Date submitted:  10/26/2021
Name:  Isella Hoopai
I am:  Kanaka Maoli (aka Native Hawaiian)
City, State:  Concord,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Maxine Kahauloelio  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimea, HI  

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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**Additional comments:** No more desecration on God’s Mauna, is this word “No” hard to understand or hard to swallow in your na’au. Enough is enough of all your lies, your greed and to think all of you are up to challenge the rightful owner of the Mauna and who is the rightful Owner? My God and yours, did you think that all of you people are above our Creator? All of you who think ‘money’ can buy His Creations, do what is right and Pono, Mr. your time is almost up, need to give this World back to God, the rightful owner of the Universe.
**Date submitted:** 10/26/2021  
**Name:** Ben Blakemore  
**I am:** non-Native Hawaiian  
**City, State:** Volcano, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. | X |
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**Additional comments:** More should also be done to lessen the visual footprint of the telescopes on the mountain even if it means using a paint or covering on the existing observatories that match the color of the mountain. They look very ugly and negatively impact the natural beauty of the mauna.
Date submitted: 10/26/2021
Name: Kinohi Neves
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: No need TMT. As a current graduate student of UH Mānoa, I implore you to give authority of Mauna Kea back to the people with genealogical authority of Hawai‘i lands. Mahalo.
**Date submitted:** 10/26/2021  
**Name:** Sabrina Wong  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI  

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**Additional comments:**
Date submitted: 10/26/2021
Name: Caitie Kohl
I am: non-Native Hawaiian
City, State: Island Heights, NJ

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Nana-Honua Manuel  
**I am:** Native Hawaiian and non-Native Hawaiian  

**City, State:** Volcano, HI

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**Additional comments:** The CMP should address the remaining 12 years on the existing lease. It should address the conditions required by the existing lease. You need to clean up and restore the mountain. The lease is over, it will not be renewed. The TMT will not be built on Mauna Kea ever. No title, no treaty, no consent. It is the right of the right holders, not the stakeholders, to decide. The right holders are the descendants of the original inhabitants of these stolen & prostituted lands. Be satisfied with the 65 years at $1/year. It is pau.
Date submitted: 10/26/2021
Name: Winona Lee
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Lia Foster  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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**Additional comments:** please do the right thing.
Date submitted: 10/26/2021  
Name: Kathryn Benjamin  
I am: non-Native Hawaiian  
City, State: Hilo, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Claire Dresser
I am: non-Native Hawaiian
City, State: santa cruz, berkeley, sfc., CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: THANK YOU FOR YOUR WORK. WE WILL KEEP THE FAITH! <3
**Date submitted:** 10/26/2021  
**Name:** Sky Ty  
**I am:** non-Native Hawaiian  
**City, State:** American Canyon, CA

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kalanamana-o Awong
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wai‘anae, HI

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**Date submitted:** 10/26/2021  
**Name:** Emmy Boe  
**I am:** non-Native Hawaiian  
**City, State:** Santa Cruz, CA

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Risa Yamamoto  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Thomas Lum  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Wailuku, HI  

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Additional comments:
Date submitted: 10/26/2021
Name: Beth Leeds
I am: non-Native Hawaiian
City, State: Laguna Beach, CA

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Additional comments: There is no reason now for any more development on Mauna Kea's peak.
Date submitted: 10/26/2021
Name: Mona Kea
I am: non-Native Hawaiian
City, State: Wailuku, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Ayesha Liquorish
I am: non-Native Hawaiian
City, State: Haleiwa,

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Additional comments:
Date submitted: 10/26/2021
Name: Jenny Kalua’u
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Carlotta Kailiawa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mammoth Lakes, CA

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Additional comments:
Date submitted: 10/26/2021
Name: Zach Street
I am: non-Native Hawaiian
City, State: Coupeville, WA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments:
Date submitted: 10/26/2021  
Name: Genesis Makaneole-Bragg  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kaneohe, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Camryn Seele  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

**Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:**
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
- Over half a million Kanaka Maoli, Hawai‘i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.
- There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.
- On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai‘i’s native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.
- The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.
- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!
- Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!

**Additional comments:** While I believe that astronomy is an important part of scientific development, I do not believe that the further desecration of the culturally and genealogically significant sites on Mauna Kea recognizes a mutual respect for both cultural and environmental significant sites. Making the Draft Master Plan statement by the University of Hawai‘i respects the capacity both the cultural and environmental significance of Mauna Kea a fallacy. Using ‘Ōlelo Hawai‘i in this Master Plan seemed like a tactic of mockery and was in fact used in opposition to what Kanaka Maoli continually fight and protect for. To name the document “E Ō I Ka Leo” seems very ironic as it translates to “listen to the voice”. This is very much inconsiderate to Kanaka Maoli as our voices are not being heard, in fact they rewrite history and weaponize our mother tongue against us. Despite the worldwide disapproval of TMT, there are still plans to further develop this plan. Kanaka Maoli do not consent to further desecration on Mauna Kea. As a displaced kanaka of O‘ahu, I defer to the leaders of Kānaka Maoli who have vehemently opposed TMT. Mauna a Wākea is a progenitor ancestor of Kānaka Maoli and therefore I believe that Kānaka Maoli should hold the most sway in decision-making. I strongly urge the University of Hawai‘i to take a similar approach that is rooted in transparency with the community. I am greatly appreciative of the opportunity to have input on this master plan and hope that the University of Hawai‘i will proactively seek to engage and empower Kānaka Maoli on local developments beyond the thirty meter telescope.
Date submitted: 10/26/2021
Name: Lahela Mattos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pearl City, HI

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Additional comments: The University would not feel safe to me if they allowed the further desecration of my kupuna. I oppose the construction of the TMT, and UH should not call themselves a Native Hawaiian Place of Learning if they contribute to the assault of ʻāina, and Native Hawaiian ancestors.
Date submitted: 10/26/2021  
Name: Jade Chihara  
I am: non-Native Hawaiian  
City, State: Lahaina,

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Sterling Cossy  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai‘anae, HI

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**I am:** non-Native Hawaiian  
**City, State:** Kapalama,

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**Additional comments:** By continuing with this project, you cement your position as one who does not care for the kānaka and locals who have generational connection to the ʻāina. Disrespecting the ʻāina means disrespecting the people. Shame on UH for saying they are for the people when their actions say just the opposite. It is disappoenting to see one of the biggest Universities in Hawai'i support constructions so obviously destructive and disrespectful of the history and culture here.
**Date submitted:** 10/26/2021  
**Name:** Alberto Genoivia  
**I am:** Pacific Island  
**City, State:** Līhuʻe, HI

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**Additional comments:** Stop this desecration
Date submitted: 10/26/2021
Name: Nani Niheu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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Additional comments: The indigenous people of Hawaiʻi have exemplified the significance that Maunakea has. The disregard is one too many in regards to Culture, beliefs as well as our ancestors. I do not consent. I will never consent.
Date submitted: 10/26/2021
Name: Justin Kay
I am: non-Native Hawaiian
City, State: ʻEwa Beach,

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Kim Nahale  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waiʻanae, HI

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**Additional comments:** E loa’a ‘ia ana ke koho pono iā ‘oukou e lohe ‘oukou i ko ‘oukou mau na‘au a kou mau pu‘u‘uwai. I hope you come to the right and just choice by listening to all of your inner-guiding voices and your hearts.
Date submitted: 10/26/2021
Name: Maile Wong
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Marty Martins
I am: non-Native Hawaiian
City, State: Kīhei, HI

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Additional comments: I am a white citizen of Hawai'i. I have been an attorney for over 30 yrs. Mauna Kea is not sacred to me. I am opposed to the UH Master Plan and any further construction on the mauna as a matter of justice. If Hawai'i's native people consider the mauna sacred, the piko of their universe, who are you to tell them different and desecrate their holy place with an 18-story monstrosity? Have you followed all the astronomical discoveries made in the last three yrs from the telescopes already up there? Any discoveries a larger telescope MIGHT find is not worth demeaning our desecrating our native people's sacred place.
Date submitted: 10/26/2021
Name: Stephanie Tabbada
I am: Kanaka Maoli, not NATIVE HAWAIIAN
City, State: Nāʻālehu,

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Additional comments: The Hawaiian Kingdom Nation NEVER RELINQUISHED OUR RIGHTS TO THESE LANDS, OUR NATURAL RESOURCES, OR GIVEN CONSENT TO DO SO. Show me your TREATY OF ANNEXATION FROM OUR QUEEN TO YOUR REPUBLIC OF HAWAI'I OVERTHROWERS. It is written in the Organic Act and All Acts that the State of Hawaii is Perpetuating is the description of lands received and Ceded to the Federal United States is called "WHATSOEVERKIND!" There is NO Treaty describing this but only the NON CONSENTUAL MASSIVE KU'Ε PETITION PRESENTED TO THE US CONGRESS. ANY AND ALL Derivative Titles after 1893, 1900, 1920, 1933, 1959, 1978 til present day is NULL AND VOID! Your inherited Military Occupation of 1893 until today has continued the violation of GENOCIDE. MY RESPONSE TO THIS AGENDA OF CONTINUALLY DESECRATING OUR MAUNA IS A\OLE. CONSTRUCTIVE NOTICE IS HEREBY GIVEN TO THE UNIVERSITY OF HAWAI'I, state of Hawaii, Individual Board Members and ALL CONCERNED TO CEASE ACTING LIKE YOU ARE ALL THE MASTERS IN CONTROL OF WE THE KANAKA AND OUR AINA THAT IS IN A "TRUST" AND NOT IN THE STATE OF HAWAI'I AS OWNERS! CONTINUE TO ACT AS OWNERS? SHOW ME YOUR CONVEYANCE FROM OUR KINGDOM NATION TO YOU!
Date submitted: 10/26/2021
Name: Elana Jones
I am: non-Native Hawaiian
City, State: Ocean View, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** John Omerod  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/26/2021
Name: Alaka’i Asing
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona,

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Enough is enough stop the desecration
Date submitted: 10/26/2021  
Name: MaryAnn Omerod  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments:
Date submitted: 10/26/2021
Name: Liko Asing
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: La‘iopua,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Leave our sacred and beloved Mauna alone!!!
**Date submitted:** 10/26/2021  
**Name:** Kalena Blakemore  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Volcano, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Kupono Ana  
**I am:** Native Hawaiian, Sovereign Hawaiian national  
**City, State:** Hilo, HI

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**Additional comments:** Why did the UH Regents only preserve the adze quarry under the preservation act of 106 and not Mauna Kea? You guys have been neglecting yor obligations to protect the mauna for too long. Do what’s right for the Hawaiian people. Mahalo
**Date submitted:** 10/26/2021  
**Name:** Amanda Hogue  
**I am:** non-Native Hawaiian  
**City, State:** Lynden, WA

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Euliana Hudson  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: David Lee Rogers
I am: non-Native Hawaiian
City, State: Arlington, Tarrant, TX

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Additional comments: The State and its agents, departments, and divisions such as the University of Hawai‘i system have for years exploited Ceded Lands and DHHL lands for economic benefit with no regard to the moral and fiduciary responsibility to the original indigenous inhabitants of the islands. The kanaka maoli have been decimated by disease, oppressed, subjugated, and marginalized over the past 200 years. No one can undo past wrongs, but when government power continues to be abused at the expense of the kanaka maoli, then there is a point when people need to say Lawa / Enough. The UH master plan for Mauna Kea ignores the unique historical and cultural place that Mauna Kea holds to its people. Based on previous actions of fiduciary indifference to those who deserve to benefit from this land, ie the kanaka maoli, there is no reasonable expectation to be had that any positive gain will ever come of this so-called master plan - either culturally or financially. Too many times the government has made its promises and the reneged on those same promises. It is too late - Fool us once, shame on you. Fool us a thousand times, well then you are just corrupt and cannot be trusted AT ALL. That land is conservation land and needs to remain as such. As Kahookahi Kanuha said, the kanaka maoli should not have to prove every inch has value and the culture of the kanaka maoli should not be dismissed because it is contemporary and not more than 200 years old. Hawaiian culture still exists whether you want to acknowledge that or not. Being dismissive of another's culture is absolutely *disgusting* coming from an institution of higher learning sitting on the very same islands.
Date submitted: 10/26/2021
Name: Janeile Carter
I am: non-Native Hawaiian
City, State: Pearl City, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Luis Zuniga
I am: no answer
City, State: Benicia, CA

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Additional comments: Eight Criteria to build the Telescope. All Must Be Met for the permit to be approved for construction... Among other issues, such as spirituality and sacredness of the mountain, petitioners have been stressing through their witnesses that the project does not meet Hawai‘i Administrative Rules section 13-5. In it, there are eight criteria the Department of Land and Natural Resources must evaluate before allowing construction on a conservation district, such as Mauna Kea. Those eight criteria include: The proposed land use is consistent with the purpose of land conservation district; The proposed land use is consistent with the objectives of the subzone of the land on which the use will occur; The proposed land use complies with provisions and guidelines contained in Chapter 205A, HRS, entitled “Coastal Zone Management,” where applicable; The proposed land use will not cause substantial adverse impact to existing natural resources within the surrounding area, community or region; The proposed land use, including buildings, structures and facilities, shall be compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcel or parcels; The existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved or improved upon, whichever is applicable; Subdivision of land will not be utilized to increase the intensity of land uses in the conservation district; and The proposed land use will not be materially detrimental to the public health, safety and welfare. Because land has been desecrated before does not mean you can continue to do so. We continue to say no to this project. We continue to expect that our concerns and objections are heard and respected by terminating this project.
Date submitted: 10/26/2021
Name: Damien Award
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Bernadette DeLeon  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Papakolea, O‘ahu, HI

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**Additional comments:** As a Kanaka Maoli I will always oppose to unnecessary buildings that will not support the hawaiian people in Hawaii. I don't think it's right for Outside entity's to come to Hawaii and take away our aina for there own profit.
**Date submitted:** 10/26/2021  
**Name:** Noelani Cortez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

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**Additional comments:** As I see it, this pandemic has shed light on how Hawai'i needs to be self-sustaining. There has been a push for local farmers to provide our produce, doesn't it make more sense to protect our resources rather than destroy what has been given freely from our Aina? I oppose TMT being built on Mauna Kea and another thing: this land belongs to Native Hawaiians... remember where your roots are planted and stop chasing the money.
Date submitted: 10/26/2021
Name: Kahealani Phillips
I am: Chicana, European, Polynesian
City, State: Kamuela, HI

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Additional comments: KŪ KIAʻI MAUNA! EŌ? Eā;
**Date submitted:** 10/26/2021  
**Name:** Ursula Chong  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kamuela,

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Tara Rojas  
**I am:** non-Native Hawaiian  
**City, State:** Oʻahu, HI

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**Additional comments:** Lassner, Chun, Hayes, Young: YOU, lessees, do NOT OWN Mauna Kea. The physical numbers are right in front of you = online 500,000 signatures IN OPPOSITION and 30,000+ statewide marching IN OPPOSITION and thousands at the base of Mauna Kea protecting her IN OPPOSITION and 38 respected Kūpuna literally with their bodies, minds, hEArts, and spirits SAYING NO!!! STOP!!! ENOUGH!!! Avoid saying or explaining one more word. out loud or on paper = NO RENEWAL OF UH LEASE ON MAUNA KEA! NO APPROVAL OF UH MASTER PLAN! NO TMT ON MAUNA KEA! NO TELESCOPES PERIOD ON MAUNA KEA! PLEASE CLEAN UP AND LEAVE. NO = NO!
**Date submitted:** 10/26/2021  
**Name:** Rebecca Hogue  
**I am:** non-Native Hawaiian  
**City, State:** Cambridge, MA

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**Additional comments:** Kānaka Maoli do not consent to the building of TMT. Tens of thousands of Kānaka and non-Kānaka has risen up in opposition. Being a “Hawaiian place of learning” should begin with consensual collaboration with the Hawaiian people. There is no consent. TMT should never be built.
Date submitted: 10/26/2021
Name: Ginette Lolagne
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Michael Kupau
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Las Vegas, NV

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Additional comments:
Date submitted: 10/26/2021
Name: Paula Duke
I am: no answer
City, State: , HI

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Additional comments: Technology is surpassing itself in realtime. Alignment with the Spaceforce is imperative. Collaborating to build an orbiting space station is the future. Allocating funds on outdated technology is a waste. We need our students on space missions. Astronaut Astronomers.
**Date submitted:** 10/26/2021  
**Name:** Annie Yamashiro  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** ʻEwa, HI

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**Additional comments:**

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DRAFT
Date submitted: 10/26/2021
Name: Hannah Keala
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Benicia, HI

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Additional comments: We will fight until the last vestiges of colonization are eradicated.
Date submitted: 10/26/2021
Name: Dea Rackley
I am: no answer
City, State: Pāhoa, HI

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Additional comments: Noooooooo to - #TMT - #UH indefinite control of Mauna Kea for “present and future generations” - A #gate (controlled by them) - Increased Ranger presence (UH security forces with #Kanaka abuse history) - [ ] - profuse use of our #language and reference to #sacred elements such as the #Kumulipo and comparison of #astronomy to cultural on record I want my comment included but do NOT give consent to have your name or words used in any other way, such as being listed as having been “consulted.”
**Date submitted:** 10/26/2021  
**Name:** Margaret Conner  
**I am:** US Citizen residing in CA  
**City, State:** Larkspur, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** Time to end any and all attempts to continue this project
Date submitted: 10/26/2021
Name: Moorea Keene
I am: non-Native Hawaiian
City, State: Goleta, CA

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Additional comments:
Date submitted: 10/26/2021  
Name: Cathy Costa  
I am:  Kanaka Maoli (aka Native Hawaiian)  
City, State: Kurtistown, HI

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**Additional comments:** These lands are the kanaka maoli land and it should be governed by kanaka maoli
Date submitted: 10/26/2021
Name: Teracia Smith
I am: non-Native Hawaiian
City, State: Hastings, Hawkes Bay, Aotearoa, New Zealand

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Additional comments: Kū kia‘i Mauna! Kia kaha, kia maia, kia manawanui our indigenous polynesian Ohana!
Date submitted: 10/26/2021
Name: Mitchel Viernes
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021  
Name: Hannah Kela  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Benicia, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Jim Albertini  
**I am:** non-Native Hawaiian  
**City, State:** Olaʻa (Kurtistown), HI

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**Additional comments:** Before we look into space we need to malama this place and respect the sacred as defined by Kanaka Maoli such as Mauna Kea. NO TMT
Date submitted: 10/26/2021
Name: Elizabeth Moreno
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: ʻEwa Beach, HI

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Additional comments: I agree with all of the important and relevant points made here. Good stewards cannot ignore the voices of its people so why should you be stewards at all if you lack integrity to uphold and protect our cultural values!? It’s a shame that politics along with self-interest/greed supersedes doing what’s pono. It’s time the people let you know they are paying attention.
**Date submitted:** 10/26/2021  
**Name:** Melinda Cruz  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, HI

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**Additional comments:** NO
Date submitted: 10/26/2021
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I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe,

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Additional comments:
Date submitted: 10/26/2021
Name: Adam Tuifagu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Papaikou, HI

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Additional comments: TMT should not and will not be built on Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** B B  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** Our natural resources were never endangered until our government began to attack its every aspect of natural existence. Once destroyed, we will never be able to restore it to its natural capacity. Our government is gambling with our very existence and that is a chance we will not take. There is too much at stake.
Date submitted: 10/26/2021
Name: Orlinna Meheula
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapole, HI

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Additional comments: Enough is enough.
Date submitted: 10/26/2021
Name: Anela Joseph
I am: no answer
City, State: Waipahu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Bal Patterson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: I do NOT consent. TMT does NOT have consent. Stop wasting taxpayers money to pursue this futile act of oppression against native culture and values. The University of Hawai'i’s sense of entitlement with regard to making big plans that clearly exceed the 2033 lease, and that includes further rape of Hawaii’s majestic lands is appalling and proves just how importance it is for the 2033 lease to be the final expiration date of it’s tenure.
Date submitted: 10/26/2021
Name: Ron Hagg
I am:
City, State: Papaikou, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Josiah Goode  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wilmington, DE  

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**Additional comments:** Indigenous Land preservation and politics represent the greater struggle of colonized people making the world a safer place.
Date submitted: 10/26/2021
Name: Amber Kon
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pāhoa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021  
Name: Caitlin Blanchfield  
I am: non-Native Hawaiian  
City, State: Ithaca, NY

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Additional comments: The University of Hawai'i has proven their ineptitude in managing the mauna in manner that supports the protection of the land and Kanaka Maoli self determination. This is evident in the 1998 audit, in the decades of pollution and accumulation of trash that proceeded it, in the unheeded opposition to telescope expansion since the first, and in the fact that UH has not listened observatories went up, and in the fact that UH has not listened to the thousands of Kanaka Maoli and allies opposing the TMT. Why is the TMT still an option in this plan? Why has stewardship of the mauna not been returned to Kanaka Maoli as it is crown lands? Why does this plan call for expansion of facilities on the mauna when the public has made clear they want no construction? Why have public conversations on this plan been heavily regulated? I oppose this plan because it does not address the main issues at stake with the management of Maunakea and public review has been conducted ineffectively.
Date submitted: 10/26/2021
Name: Kaylene Sheldon
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaaawa, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Mariah Case
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: A'ole TMT we say no
**Date submitted:** 10/26/2021  
**Name:** kaupena kalima  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku, HI

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**Date submitted:** 10/26/2021  
**Name:** Eric Van Natta  
**I am:** non-Native Hawaiian  
**City, State:** Kaneohe, HI

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### Additional comments:
Date submitted: 10/26/2021
Name: Tana Alana
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Papakōlea, Oʻahu, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments: First and foremost, provide the Treaty of Annexation. Second, get off, and stay off our Mauna!!!
**Date submitted:** 10/26/2021  
**Name:** Pamela Rubin  
**I am:** Canadian  
**City, State:** Halifax, Nova Scotia, Canada

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**Additional comments:** Land back, bodies back! No more clinical settler construction on Hawaiian lands. I love Hawaii and do not want to see it’s sacred land desecrated. Thank you.
**Date submitted:** 10/26/2021  
**Name:** Mana Caceres  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapolei, HI

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**Additional comments:** I do not consent to the continued desecration of Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** Jan Kekua-Spencer  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua-Kona,

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Noelani Ahia  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waiehu,

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**Additional comments:**
Date submitted: 10/26/2021
Name: Uʻilani Perry
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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**Date submitted:** 10/26/2021  
**Name:** Teal Willingham  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:** Space based telescopes will quickly make TMT obsolete. Vox had an article about the new James Webb Space Telescope on September 22, which made very clear that TMT is no more than a vanity project for UH and the involved parties.
**Date submitted:** 10/26/2021  
**Name:** Denise Ropa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Lānaʻi City, HI

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**Additional comments:** Please stop
Date submitted: 10/26/2021
Name: Fay McFarlane
I am: 
City, State: Lahaina, HI

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Additional comments: It cannot be understated that the greater community at large opposes the current version of the Mauna Kea Master Plan proposed by UH. It remains unacceptable to the majority of the Kānaka Oiwi population as well as the majority of the non-native Lāhui. I strongly criticize this plan and will stand in opposition to the implementation of the plan.
**Date submitted:** 10/26/2021  
**Name:** Aaron Veincent  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Ha‘ikū, Maui,

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Comet ‘Au’a Enos-Nakanelua  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Kahaka Patolo  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu,

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | 
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| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** A'OLE TMT
**Date submitted:** 10/26/2021  
**Name:** Monika Kerr  
**I am:** non-Native Hawaiian  
**City, State:** Denver, CO

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** ‘Aʻole TMT
**Date submitted:** 10/26/2021  
**Name:** Dana Paresa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Portland, OR  

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**Additional comments:**
Date submitted: 10/26/2021
Name: Noelani Tupou
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mānoa, HI

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Additional comments: I think the time has come for others to mālama (take care of) Mauna Kea! UH is not the correct entity to do so. We do not want a TMT on our sacred Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** Shannon Rudolph  
**I am:** non-Native Hawaiian  
**City, State:** Hōlualoa, HI

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**Additional comments:** I am a 40 year Hawai`i Island resident who is horrified with UH's `management` of Mauna Kea. I do not consent.
**Date submitted:** 10/26/2021

**Name:** Troy Wong

**I am:** Kanaka Maoli (aka Native Hawaiian)

**City, State:** Kapa‘a, HI

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**Additional comments:** You should have taken the defeat at the hands of our Lahui. Now you probably think with all these distractions and the pandemic is gonna keep us busy and not protect Mauna Kea. Think again! If you thought 2019 was bad for you..wait til come 2022. We will unite again and rise!
Date submitted: 10/26/2021
Name: Kahala Johnson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Aole TMT. No means no.
Date submitted: 10/26/2021  
Name: Sierra Keolanui  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Nicola Jackson
I am: Meskwaki native
City, State: Wai’anae, HI

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Date submitted: 10/27/2021  
Name: Sophia DiMaio  
I am: non-Native Hawaiian  
City, State: Ronkonkoma, NY

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**Additional comments:** GET OFF THEIR LAND!!
Date submitted: 10/27/2021
Name: Kaniela Matsushima
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Līhuʻe, HI

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Additional comments: The corporation of the United States and the state of Hawaii have are illegally occupying the Kingdom of Hawaii. The state of Hawaii along with all the counties have been oppressing Kanaka Maoli, desecrating our lands, ancestral burials, and diverting and polluting our waters. It’s time to restore pono (righteous) to our lands. I oppose any and all activities from the state of Hawaii and United States on Mauna Kea and Pohaku Loa.
**Date submitted:** 10/27/2021  
**Name:** David Russell  
**I am:** non-Native Hawaiian  
**City, State:** Kealakekua, HI

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**Additional comments:** It is time you listen to the vast majority, and especially Kanaka Maoli, most of who oppose the construction of the Thirty Meter Telescope on Mauna Kea. Instead of continuing to pursure a project that obvious opposition from the local community, projects that will directly benefit and therefore support the larger community should be pursued instead.
**Date submitted:** 10/27/2021  
**Name:** Haunani Hess  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pearl City,

| Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:| 
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**Additional comments:** Listen to what the indigenous people are saying and wanting for their own sacred sites. Ignoring overwhelming dissent is criminal. TMT is a willful enterprise that requires desecrating a Native Hawaiian sacred site. No TMT!
Date submitted: 10/27/2021
Name: Ekin Lindsey
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. X

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Additional comments: Do your diligence duty to protect what is sacred!
Date submitted: 10/27/2021  
Name: Momi Tong  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Ola`a, HI  

| Opposition to the University of Hawai`i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
|:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai`i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | |
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Additional comments:
Date submitted: 10/27/2021
Name: Laura Dvorak
I am: non-Native Hawaiian
City, State: Hilo, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Leilani Pao
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/27/2021
Name: June Andrade
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kona, HI

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Additional comments:
Date submitted: 10/27/2021  
Name: Persian Asuncion  
I am: no answer  
City, State: Waipahu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Lindsay Gragasins  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/27/2021  
Name: Kimberly McDowell  
I am: non-Native Hawaiian  
City, State: Kailua, HI

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Additional comments: Do what is right and protect what is sacred. It may not be sacred to most people, but it is sacred to the people of this land. Mauna Kea belongs to the native Hawaiians and sacred land needs to be protected.
**Date submitted:** 10/27/2021  
**Name:** Joshua Kahele  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kahului, HI

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

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- The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

- Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!

### Additional comments:

I do not consent to the building of the TMT
**Date submitted:** 10/27/2021  
**Name:** Elizabeth Weitz  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** I am a PhD student at UH. Stop colonizing education and knowledge.
Date submitted: 10/27/2021
Name: Kirie Santos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pāhoa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Date submitted: 10/27/2021
Name: Malia Umi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mililani, HI

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**Additional comments:** 'A'ole TMT
Date submitted: 10/27/2021
Name: Amberlene Thompson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Barbara Altemus
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Karen Thatcher

I am: Native Hawaiian and, I am a UH student, mother, sister, grandmother, and friend who is also of Caucasian and Chinese decent.

City, State: Kapahulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Please stop. Take Mauna Kea off of the potential site list for this project. UH should've held exclusive rights with their 1 telescope instead of selling out for more money and desecrating a sacred water source. Your staff has disagreed with this idea, your students have protested (the majority), men, women, children, kupuna from around the planet has voiced their rejection of this project. The majority has spoken, its time for you to listen. I ask that you scrap any and all development for TMT and future telescopes. Remove, clean, restore, preserve Mauna Kea. Mahalo.
Date submitted: 10/27/2021  
Name: Jaclyn Harvey  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Date submitted: 10/27/2021
Name: Noreen Waiau
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiākea, HI

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Additional comments: When will the desecration of Mauna Kea STOP!!? When will the voices of Kanaka Maoli be heard!!? We as Kanaka Maoli have a responsibility to the ‘Āina, a kuleana to protect it!! How much longer before you realize that another monstrosity on the top of Mauna a Wākea is not acceptable!!?!! I ask that you reconsider the building of TMT on our precious Mauna!
Date submitted: 10/27/2021  
Name: Kimmy Diaz  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Brittany Chambrella  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapolei, HI

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**Additional comments:** I do not consent to the building of any telescopes on Mauna Kea or any other natural spaces in Hawai'i.
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**Additional comments:** As many have noted, the issue of the TMT is multi-layered, multi-faceted and extremely complicated at best. Although this is true, it is also true that the solution to this conflict is elegantly simple. Aloha aina. Imagine the love that you have for your family, for your mother, your brother, your son. Hold on to the deep emotion within and imagine feeling that same love when you look at a field of kalo, a school of fish swimming near the reef, or a majestic mountain standing tall above the clouds. It’s not the appreciation of beauty or the objectification of nature, it’s a deep, visceral connection. Aloha aina is a call to strive to live in harmony and balance with everyone and everything around you. Those in support of the would-be telescope claim economic benefits, advancement of scientific knowledge and community pride. I state that we can reach those same goals through aloha aina and do so without increasing the already significantly adverse environmental impact. We can encourage our community members to become more aware of the issues that affect them and get more involved with finding and creating solutions. We can fund education, not by taking from others and corporations, but by using the resources we have in our own communities. In my opinion, no amount of money will ever be worth jeopardizing the future of this place, of our island home. And to me, the construction of the TMT will do just that. Those who criticize the protectors of Mauna a Wakea have stated that we are not willing to compromise. To them I say, the familial relationship between humans and the environment requires that we care for that which cares for us and protect that which protects us. There is no compromise in aloha aina, there is only action.
Date submitted: 10/27/2021  
Name: Izak Morton  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/27/2021  
Name: Malia Thompson  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Pukalani, HI  

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Kikilia Lani  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Ualakaa, HI  

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**Additional comments:**
Date submitted: 10/27/2021
Name: Christopher Kanehilua Freitas
I am: Native Hawaiian, Hawaiian kingdom subject there is no Native More like Hwn National no Treaty Of Peace or Annexation
City, State: Waiʻanae, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Date submitted: 10/27/2021
Name: Hi‘ileiakaulilinoe Kehano
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kula, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Brooke Rodenhurst  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: McKenna Bonn-Savage
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: honolulu, HI

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**Date submitted:** 10/27/2021  
**Name:** Cali Nawaakoa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku,  

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**Additional comments:**
Date submitted: 10/27/2021
Name: Maelani Lee
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, Oʻahu, HI

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Additional comments: I oppose the New Mauna Kea Master Plan and with all respect to all, my family are heirs to Kaohe and ask that you cease and desist from any further planning and development of the TMT and all telescopes unless they are planned to be decommissioned. ~The Lee Family, Queen of Hawaii.
Date submitted: 10/27/2021
Name: Dakota Lanning
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments: Education in Hawaii has had a history of degrading and disregarding Kanaka Maoli in favor of colonizer control and "enlightenment". In light of this history of wrongdoings, UH is still choosing to disregard the voices of Hawaiians and continue this settler methodology and mindset of "we know what's best and you are wrong/denying progress if you disagree". Science should not happen at the expense of a people and yet here we are. Where are the ethics in this pursuit of knowledge? Nowhere.
Date submitted: 10/27/2021
Name: Michelle Kitashima
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Haiku, HI

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Additional comments: Aloha Aina! Blessings to all. Mahalo!
**Date submitted:** 10/27/2021  
**Name:** Roxane Keliikipikaneokolohaka  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** No matter how you spin the PR, all you are doing is asking the same question until you get the answer that YOU want. It is not at all about actually listening to & abiding by the overwhelming opposition every time you ask.
Date submitted: 10/27/2021
Name: Tami Winston
I am: non-Native Hawaiian
City, State: Honokaa, Haeii, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** John Collado  
**I am:** non-Native Hawaiian  
**City, State:** Wahiawā, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Kayla Matsushima
I am: non-Native Hawaiian
born and raised Hawai‘i
City, State: Kīlauea, HI

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Additional comments: Let us also remember that we are still under an illegal occupation by the USA. Anyone claiming to have jurisdiction over Mauna Kea that is not Kanaka Maoli is in direct opposition to the Kingdom of Hawai‘i. It is unlawful for anyone either than Kanākā Maoli to be making decisions on behalf of Mauna Kea, and all lands of the Hawaiian Kingdom.
Comment Forms Received via Email

**Date submitted:** 10/27/2021

**Name:** Rowena Rojo

**I am:** Kanaka Maoli (aka Native Hawaiian)

**City, State:** Honolulu, HI

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**Additional comments:** Save our sacred ‘āina, our Kupuna imi and the awufe for the Islnd of Hawai‘i and all Of the people that lives there!
**Date submitted:** 10/27/2021  
**Name:** Gwen Kim  
**I am:** non-Native Hawaiian  
**City, State:** Ka’ā’awa, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in n the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** Staunchly Against TMT
**Date submitted:** 10/27/2021  
**Name:** Donna Ching-Foster  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Mikayla Mitchell
I am: non-Native Hawaiian
City, State: Waimea, HI

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Additional comments: Times have changed. It shold no longer be the colonialist's right to desecrate sacred land that has been protected by indigenous for thousands of years. WE/Colonialists do NOT know best. To think we can do better than the keepers of this sacred land is pompous and egotistical. Let the protectors of our life blood protect it. Leave Mauna Kea be, it is fine a is.
Date submitted: 10/27/2021  
Name: Maya Abarca  
I am: non-Native Hawaiian  
City, State: ʻEwa Beach, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Protect indigenous land
**Date submitted:** 10/27/2021  
**Name:** Kaimalialani McTavish  
**I am:** non-Native Hawaiian Polynesian, Tahitian (Maohi)  
**City, State:** Nāʻālehu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Bronze Fonoimoana
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahuku, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. | X |
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| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands. | X |
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Additional comments: No building on sacred land!!!
**Date submitted:** 10/27/2021  
**Name:** Ada Ball  
**I am:** non-Native Hawaiian  
**City, State:** Siletz, OR

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
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**Additional comments:** I hope to travel to Hawaii in the future and my visit will be culturally and spiritually impacted by the nonconsensual construction of the telescope on a meaningful site the sovereign Hawaiian people.
Date submitted: 10/27/2021  
Name: Dana Okuma  
I am: non-Native Hawaiian  
City, State: Wahiawā, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
| There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X  
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| The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands. | X  
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Additional comments: Why do you need to build an observatory?? Why not focus on the issues that are happening on Earth before you go looking for another planet? Why not use that money to save our planet from climate change by endorsing and enforcing The Plant Basrd Treaty? It is better for the animals, humans, and the environment.
Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
Date submitted: 10/27/2021
Name: Stephen Hicks
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
# Comment Form

**Date submitted:** 10/27/2021  
**Name:** Jessica Chirico  
**I am:** non-Native Hawaiian  
**City, State:** Kīlauea, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Esther Moi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Springfield, MO

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Evil will never prevail and you all are still invading lands that DO NOT belong to you. Respect the aina and leave the lands alone.
Date submitted: 10/27/2021
Name: Elise Carrell
I am: non-Native Hawaiian
City, State: Oakland, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/27/2021
Name: Puaena Ahn
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honomū, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Raul Goodness
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Nazlie Figueroa  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** Protect the land at all costs.
Date submitted: 10/27/2021  
Name: Marco Bernardi  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Alec Marentic
I am: non-Native Hawaiian
City, State: Mountain View, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Trevor Atkins
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I am Hawaiian. I am a student at UHM. I was not consulted or informed. I disagree with this Master Plan.
**Date submitted:** 10/27/2021  
**Name:** Kailani Meheula  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |  
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**Additional comments:** Mandatory Hawaiian History Class for the US and their foreign friends along with some restoration to our people and our land sound Pono! Stop whoring Hawai‘i!
Date submitted: 10/27/2021  
Name: Aubrey Hounshell  
I am: non-Native Hawaiian  
City, State: Kau, HI

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.  
- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.  
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### Additional comments:

Pretty sure the people's decision was final. This is a pseudo democracy after all, at least pretend that the populous have an intrinsic right to self-governing based upon the wants and wishes of the majority. Furthermore, the supposedly elected, fiscally elite in control of the governing bodies could not be farther from understanding the cultural and environmental needs of the people and planet they so eloquently fail to support in any resolve ever. This particular issue has been determined through the actions and perseverance of the Kingdom Hawaii and its lawful and sovereign People. This particular issue of #TMT has divided the inhabitants of this land and made it particularly difficult for people without Hawaiian Koko to simply exist. The torment of the many for the greed of a few. It's time to lay this issue to rest. Otherwise more wasted community dollars and an uprising of the people, such as this government has never seen and a course of action that contains the repercussions of their actions. The absolute tyranny of the Hawaiian People since 1823. The reparations are long over due. In simple, to the people responsible for the financial component of tmt: please abandon your resolve. You are tearing our community apart. We are guests in a sovereign land. By any means necessary, respect and honor the culture of our hosts as they have respected (under threat of imprisonment and death) our commercial extortion and exploitation of their most fertile and beautiful lands.
Date submitted: 10/27/2021  
Name: Seán Ó Connor  
I am: non-Native Hawaiian  
City, State: Haiku, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Nedi Mikiʻoi McKnight  
**I am:** non-Native Hawaiian  
**City, State:** Pa`auilo,

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**Additional comments:** NO TMT - Public and resident outrage will be immense. Stop shitting on indigenous people.
**Date submitted:** 10/27/2021  
**Name:** Alyssia Fossorier  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Tiana Pereira  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waipahu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Jena Au  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** , HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. | X |
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**Additional comments:** A'olē TMT
Date submitted: 10/27/2021
Name: Jessica Conner
I am: non-Native Hawaiian
City, State: Kailua-Kona, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | |
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Additional comments: Take a step back and recognize the generational trauma that colonization has placed upon our fellow Kānaka Maoli. UH, now is your time to help heal a community. Release the Mauna back to its people.
Date submitted: 10/27/2021
Name: Lucia Miramontes
I am: non-Native Hawaiian
City, State: Salt Lake City, UT

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: You should be ashamed
Date submitted: 10/27/2021
Name: Nichole Inouye-Nohara
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kīhei, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Walter Tavares  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hauula, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Kuuleianuhea Awo-Chun
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Stacey Moniz  
**I am:** non-Native Hawaiian  
**City, State:** Makawao, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
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**Additional comments:** Please help preserve our island.
Comment Forms Received via Email

Date submitted: 10/27/2021
Name: Tonya Crockett
I am: non-Native Hawaiian
City, State: Conifer, CO

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I went to UHHilo and stand behind the natives with their movement to protect the sacred land of Mauna Kea.
Date submitted: 10/27/2021
Name: Natalie Borsky
I am: no answer
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/27/2021
Name: Anya Meredith
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Provo, UT

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Date submitted: 10/27/2021  
Name: Gabriel Feliciano  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kamuela, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Kamea Blackman
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Sanford, FL

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Kalani Dedrick  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaʻōhau, HI

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**Additional comments:** Enough is enough. No more desecration on Kingdom of Hawai‘i property. ‘Aʻole TMT. Kū Kiaʻi Mauna!
Date submitted: 10/27/2021
Name: Dasia Nahoompi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hauula, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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**Additional comments:**
Date submitted: 10/27/2021  
Name: Katherine Mora  
I am: non-Native Hawaiian  
City, State: Kailua, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Leanne Lukela
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments: Give the kanaka what's theirs.
**Date submitted:** 10/27/2021  
**Name:** Raine Henry  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Denver, CO

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**Additional comments:** I am part of the Kanaka Maoli diaspora. UH taking ancestral lands that I have not had access to is theft. Theft of culture, history, and of land.
**Date submitted:** 10/27/2021  
**Name:** Cinzia O  
**I am:** non-Native Hawaiian  
**Pohnpeian**  
**City, State:** Honolulu, HI

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**Additional comments:**
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Name: Nadine Banglos  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: 91-1159 Keahomua Parkway,  

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Date submitted: 10/28/2021
Name: Lauren Barclay
I am: non-Native Hawaiian
City, State: Honolulu / Houston,

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Additional comments: Kanaka maoli have always been and always will be the only group of people who truly have Hawai‘i’s best interest at heart; to disrespect them is to disrespect Hawai‘i itself.
Date submitted: 10/28/2021
Name: Joyce Wond
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: A'OLE TMT A'OLE
Date submitted: 10/28/2021
Name: Juvana Soliven
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/28/2021
Name: Sadie Eckart
I am: no answer
City, State: Kailua,

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Additional comments: No, to building anymore telescopes on Mauna Kea. It is a cultural and sacred area. From childhood, my parents spoke of the Sacred Hawaiian Land. Over a million people internationally agree there should be no more telescopes. They have mis-managed and polluted the site. No to anymore of this. I know the Palm Springs Indians hold their lands sacred and malama and cherish every square foot. We will do the same. Stop, with the money pitches, the indigenous people and all are against it. This is recorded in history. Our eco and infrastructure are worth more than money. Sincerely, Sadie Eckart.
**Date submitted:** 10/28/2021  
**Name:** Kapiʻolani Kaowili-Mclain  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Surprise, AZ

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**Additional comments:**
Date submitted: 10/28/2021
Name: Rebecca Maria Goldschmidt
I am: non-Native Hawaiian
City, State: Palolo Valley, Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/28/2021
Name: Kathleen Sanner
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Keeau, HI

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Additional comments:
Date submitted: 10/28/2021
Name: Chad Listman
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hanalei, Kauaʻi, HI

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Additional comments:
**Date submitted:** 10/28/2021  
**Name:** Shaylyn Kimura  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kīlauea, HI

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### Additional comments:
**Date submitted:** 10/28/2021  
**Name:** Heath Hornsby  
**I am:** non-Native Hawaiian  
**City, State:** Elsa, HI

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**Additional comments:** The rights of the Kanaka Maoli to have their sacred spaces should be respected, as should the practices of all Indigenous Peoples.
**Date submitted:** 10/28/2021  
**Name:** Alex Cann  
**I am:** non-Native Hawaiian  
**City, State:** SD, CA

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**Additional comments:** Jesus Christ, stop messing with what makes Hawaii, Hawaii and what we’ve all come to love about it. This is NOT your land as much as you think it is… you are on the wrong side of history here, friends. Do the right thing. If the kanaka says they don’t want it, you shouldn’t force it down their throats. I will remind you, this is not your land.
Date submitted: 10/28/2021
Name: Nadav Yair
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: , Israel, Samaria

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Additional comments: Even through American Law, we the Hawaiians are the Legal Owners of our STOLEN LANDS!
Date submitted: 10/29/2021
Name: Ida Perez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments: What is sacred is always sacred!!! Go build it somewhere else. Mother Earth has been damaged through pollution, over fishing, dug for mining, fragged, and burned. Why look for other planets to destroy? Sole TMT!
**Date submitted:** 10/29/2021  
**Name:** Ida Perez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** What ever is considered sacred by any indigenous people should be always be sacred. We kanaka Maoli are thought from babies to respect our Kupuna, we are ready to take on any foreign people to save what is our legacy! To even attempt to desecrate the sacred is not Pomo. The countries That are sponsoring the TMT project are the very countries who pollute the earth the most. India’s water ways are filthy with human remains and excretments’ Japan is leeching radioactive wastes into our pertinent Pacific Ocean, they are depleting our sea animals and killing our Mano! America is even worst with their contamination of the soil, waterways and air. They pollute the rivers with spilt oil, coal mine and factory wastes,
Date submitted: 10/29/2021
Name: Natalie Jardine
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: A’OLE TMT
**Date submitted:** 10/29/2021  
**Name:** Alisha Kaluhiokalani  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:** As a Kanaka Maoli pursuing my Bachelors degree in Social Work at UH, I feel it is my kuleana to show my support in A'ole TMT. My question to you: How can you push a plan to desecrate and build on our land time and time again and teach about the history, our culture, and language and not feel guilty about doing what you are trying to do? It seems so hypocritical that you do the exact thing that oppressed our people, taking our aina for gain of another … Where is the justice for our people? When will the oppression stop? Why???? How does this benefit my people? Always taking what is not your, acting just like the Westerners that stole our identity, our land, our culture. How do you sleep at night knowing that you are stealing from my people again??? Hewa!!!
**Date submitted:** 10/30/2021  
**Name:** Stephanie O'Connor  
**City, State:** Bellingham, WA

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**Additional comments:** This suffering of many for the greed of the few is not acceptable. Moving forward with the TMT project is horrific from a social justice stand point. I rejoice in scientific advancement but it is not advancement when it desecrates the sacred. Stop the Mauna Kea TMT project.
**Date submitted:** 10/30/2021  
**Name:** Georgina Valles  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Oxnard, CA

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**Additional comments:**

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14 WRITTEN TESTIMONY RECEIVED IN ADVANCE OF DECEMBER 16, 2021, BOARD OF REGENTS MEETING
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Public Testimony Form - University of Hawaii Board of Regents

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**Your Testimony/Comments**

The Center for Mauna Kea Stewardship has taken a long, hard and inclusive look at the future of Maunakea. Its efforts have been collaborative and responsive to the concerns voiced by many in the community and the path it lays out for future stewardship is thoughtful, respectful and creative. Hawaii needs astronomy; Hawaii needs the mountain on which the most fruitful astronomy in the world occurs managed appropriately and efficiently; Hawaii needs to look to the future and honor its past. The plan proposed by the Center for Mauna Kea Stewardship furthers all of these aspirations. I strongly support it.
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

--
Kevin Davies
Assistant Researcher
Hawai‘i Natural Energy Institute
University of Hawai‘i at Mānoa
1680 East-West Road, POST 109
Honolulu, HI 96822
Cell: (808) 271-5007
I’m all for it. Despite the din from the myopic naysayers, UH has done a great job managing astronomy on the mountain, and the struggles of the recent past will help guide UH to do an even better job in the future. Astronomy is one the best things we have going on this island, and TMT will be one of the best things ever to happen to this island. Just build it! My brother-in-law William Southwell did the groundbreaking math that made Laser Guidestar possible, and he taught me to look skyward when I was 5 years old. Let’s keep the good science going stronger and stronger so our children and the world can continue to learn about the real universe.

Sincerely,
Walter Greenwood
UH Hilo Performing Arts Department
--
Quidquid Latine dictum sit, altum videtur.
University of Hawaii Board of Regents,

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Respectfully,
Kathy A. Reinhart

Sent from my iPhone
I support the UH Master Plan and TMT.

Astronomy and the Polynesians go back to when people first populated the islands.

They got here by following the stars and their urge to learn and explore.

That is what TMT is about, learning and exploring the heavens.

Mahalo

Aloha,
George

George R. Norcross  
36A Mamalahoa Place  
Honolulu, HI 96817  
808 220-2986
As a 25 year resident of Kona I want to submit the following Support Statement:
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Ronald G Ball
76-861 N Manu O Ku PL
Kailua-Kona HI 96740
704 202-9147
Aloha,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.

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Mahalo,
Marc Lefebvre
(808)298-3560
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Dear UH Board of Regents,

I completed some of my graduate work at UH Manoa.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Aloha,

Erik Petigura
No better way to advance science than providing new information.
No better way to advance astronomical information with a better telescope

Maybe our planet can be saved and allow a few more trips around the Sun

We need the TMT asap

Michael Kimball MD
96743

Sent from the all new AOL app for iOS
I support the building of the 30M telescope on Mauna Kea. Admittedly I am not of Hawaiian descent, but I think their ancestors would approve of this distinct project. They were brave explorers and an adventurous society. The telescope is something to be proud given the proximity of the Hawaiian Islands, and will provide a unique opportunity to young Hawaiians. I do not believe it diminishes the sacredness of the mountain.

Bette Belanger
Kihei, HI
Aloha

I am in full support of the Master Plan and the Thirty Meter Telescope. Science and knowledge of the cosmos are important to humankind and a building block for future inspiration. Building the TMT will provide ever increasing discovery, will also provide an increase in pride for our state, and further the education of all.

Mahalo to UH for their achievement in astronomy so far, with more to come.

Valerie Weiss
Grandmother of 2 UH graduates and one current senior.

Kapaa
# Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<thead>
<tr>
<th>Your Name (required) *</th>
<th>Richard L. Lawyer</th>
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<td>Your Organization (optional)</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:marioboy2003@hotmail.com">marioboy2003@hotmail.com</a></td>
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<td>Board of Regents Agenda Item (required) *</td>
<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E O I NĀ Leo (Listen to the Voices)</td>
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Your Testimony/Comments

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**Your Testimony (pdf or word)**

No file attached
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<th>Your e-mail address (in case we need to reach you) *</th>
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**Your Testimony/Comments**

I am Hawaiian. I support building TMT and allowing UH to continue to manage the land. Come on already.
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our state as a whole, for the economic diversification and world-class science. Please support responsible development. i mua TMT!

Your Testimony (pdf or word)

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<td>TMT represents a brilliant opportunity to shed light on our true ancestry and our existence. We support all efforts to further this cause.</td>
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Your Testimony (pdf or word)

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Your Testimony (pdf or word)

No file attached
Carol Sutherland

Your e-mail address (in case we need to reach you) *
casvrbo@gmail.com

Board of Regents Agenda Item (required) *
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Support

Your Testimony/Comments

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Page 1423
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Janet Mitchell

Sent from my iPhone
Name is Edward Rambo Odquina Kū.

....Our ancestors have always been the greatest of astronomers and our King Kamehameha would have had all those so-called "Protectors" heads cut off for interfering with the study of the stars.

... THIS TELESCOPE IS NOT JUST ABOUT MAKING HAWAII AND AMERICA THE UNDISPUTED LEADER IN THE STUDY OF THE STARS, IT CAN SAVE HUMANITY.

IF THERE IS ONE THING YOU MUST DO IN YOUR LIFETIME, IT'S TO LEAVE OUR WORLD A BETTER PLACE.

BUILD THE TMT.....

THIS TIME, I SUGGEST BUILDING A BIG JAIL AT THE BASE SO THAT ANYONE WHO UNLAWFULLY IMPEDES PERMITTED TRAFFIC CAN GET THROWN IN...BOOKED.....AND BAILED. EACH TIME THEY ARE FINED....MONEY ALLOCATED TO THE CITY AND COUNTY AND TO THE TMT.

......GET PERMITS FOR A JAIL OR PRISON FIRST.

......We can't be bullied or extorted by these FAKE NEWS HAWAIIANS anymore.

NO MORE PLAYING NICE AND DIPLOMATIC.

ENFORCE THE LAW.

......Or, simply HIRE ME, and I'll make sure these annoying "Protectors" stay away.

Edward Rambo Odquina Kū

808-233-8654
The University should support the Thirty Meter Telescope, as it is a noble project not only using talent from the state and the nation, it also brings together nations toward a common goal, nations like China and India whose relations are at times uneven. There are projects that bring the best of us together and that deserve to happen. This is one. TMT will be a great asset to the State, the Nation and the world. And make no mistake about it, if the Obstructionists succeed in driving away TMT it will be a tragedy, they will then go after the rest of the telescopes. Between that the the fall of Arecibo America will then be wavering if not in decline in relation to the rest of the world in ground based Astronomy.

Sincerely,

Don Davis
Hi,
I am pro education and exploration,

BUT
Those other telescopes (5 of them) need to be taken away and recycled or responsibly disposed of or sold to another country or state—before TMT is allowed to be built!

We cannot continue to pollute the land and the earth! We cannot leave our ‘opalns for the future generations!

If they can spend billions on a new telescope, I’m sure “they” can get rid of the old ones first!!! Or get the countries who built them to help pay to dispose of them properly!!!

Thank you,
Stacie Friel
45-666 Uhilehua Place
Kaneohe
Kamehameha snd UH graduate
Mother, wife, grandmother
Retired Teacher
Native Hawaiian
Resident
Human
Earthling
Child of God

Sent from my iPhone
Comment in support of UH's Maukakea Master Plan

Paul Hirst <paul.hirst@noirlab.edu>  
To: bor.testimony@hawaii.edu  
Tue, Dec 14, 2021 at 9:12 AM

Aloha,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Paul Hirst  
Hilo
Aloha, If not for exploration on the world will die. We need to support knowledge of the Universe. The TMT will bring us information that we will not be able to find without the telescope. If protesters run the show, nothing will ever progress. Please do not allow a few out of work, welfare recipients to control our future.

Maybe the Governor did not have enough intestinal fortitude to do the right thing and remove the protesters, but you have a chance to make things right, by supporting the TMT project and building a scientific future for the Hawaiian Islands.

Mahalo,

Harold Spindel
808 372 2251
I support TMT!

alexnick@hawaiiantel.net <alexnick@hawaiiantel.net>  
To: bor.testimony@hawaii.edu, "Matthew D.Murphy Murphy" <alexnick@hawaiiantel.net>  

To whom it may concern:

As a long term resident of Hawaii and a proponent of science I truly believe that "TMT" moving forward is in the best interest of the State of Hawaii and of our country. Mauna Kea is sacred and I would never go against the beliefs of our Kupuna and the rest of the indigenous people of the State of Hawaii but I do believe that a balance can be and should be reached between science and our local population. The marvels of the Universe have been discovered and who knows what else is waiting for "TMT" to discover. It would be a shame to loose this opportunity of a life time. Please lets move forward with "TMT" to allow for discoveries to be made now and for generations to come.

Respectfully,
Matthew D. Murphy
testimony

Peter Ehrhorn <ehrhornp1@gmail.com>  
To: bor.testimony@hawaii.edu  

I am in support of the Thirty Meter Telescope but the Hawaiian protestors have to be dealt with. I thought you did well when you offered education and money but that seems to have been rejected. Perhaps offer to figure out how to repair the crack in Kahoolawe would be something that might get their approval. Point is you have to get their approval. You may have to hire more Hawaiian astronomers before they approve. I remember an Hawaiian astronomer who talked to my Rotary club but sadly he died. He was very good in his amazement of the universe was contagious
Parallel Paths and the TMT Telescope
Graham DeVey, Kihei August 9, 2019

I’m hopeful we can find parallel paths to success in supporting Hawaiian culture and operating the Thirty Meter Telescope in Hawaii.

My wife and I have lived on Maui 24 years. What keeps us here is the lasting and positive influence of the Hawaiian people on us and the community. We’ve traveled widely, and there are few places in the world where an endemic culture has been so welcoming, so pertinent and important to daily life for all. It’s an ongoing blessing for all of us to learn from Hawaiians.

I was a science teacher at Baldwin High School on Maui for 17 years and taught 3000 or more students—Hawaiian, Haole, Filipino, Japanese, Portuguese, and many mixes of these. In my classroom lessons, I was very careful to share lessons in ways that were parallel to Hawaiian teachings, both in content and method. A native of Chicago, I was unqualified to teach Hawaiian culture and felt that the Hawaiian kupuna were much better for that responsibility, through their knowledge, passion, patience, mana, and ability to nurture the next generations. But I took pride in finding ways to parallel Hawaiian teaching and culture with my own science lessons. Many, many students and families have thanked me for my approach.

Before teaching, I had been a corporate engineer for 19 years, with 200 scientists and engineers reporting to me. Developing the next generations of young technical people became a calling for me and brought me to Maui. While on Maui, I’ve helped lots of youngsters gravitate toward the sciences.

Losing our local talent to the Mainland is a huge drain on our resources and a personal tragedy for me. I work with local tech businesses to help hire and train Hawaii-born workers, who know how to live and thrive here. Years ago, I attended a community hearing regarding a telescope for Haleakala on Maui. A well-meaning, silver-haired Haole woman stood and said, “Jobs jobs jobs! They are lying to us. These telescope people will bring in their own people from the Mainland and overseas, and our kids won’t get the jobs! Our Hawaii kids don’t know how to do this difficult work!” She was actually weeping. I wanted to climb over the table and smack her, wake her up. Yes, our local kids can and will do the work, and our tech companies would prefer to hire them, rather than train outsiders to work in Hawaii for 2-3 years before returning to their own homelands. We can, we will train brilliant students of Hawaii to work here, and technical people of all levels to work alongside them. This is what I devoted 17 years of my own life to support, and I am absolutely not alone.

At this point, many Hawaiians are gathered to oppose building TMT on Mauna Kea. I see many loving faces, people I know well, among the participants. Part of me rejoices to see native Hawaiians coming together, sharing their spirit, uniting as one. It is difficult to apply the Hawaiian teachings of antiquity to a confused new world. But I feel their pride, their joy, their mana in uniting behind a cause.

For me, though, this is a bitter, bitter development and my heart is bruised by the irony that a telescope is the focus of so much cultural upheaval. Perhaps University of Hawaii could have been a better steward of the mountain environment, I truly do not know. What promises were made in the past, and kept or broken, can surely be researched and discussed. From what I know, though, the TMT project has attempted to treat its mountain site with respect, and has tried to be open in negotiating, in good faith, to do what is pono.
I have taken native Hawaiian students to the top of Haleakala to use its telescopes, and these students enhanced the experience of our entire group. One Hawaiian boy, late in the evening, took off his shirt and lay on his back, surrounded by telescopes, feeling the earth beneath him through his skin and absorbing the stars above. He was connecting with many generations, and I was honored to help him find his way there.

So, here we are. We are at an absolutely unique time in terms of opportunity, to find parallel paths to help Hawaiians connect to their culture and to attract locally-grown talent towards astronomy careers in their own homeland. We must stop accepting the norm of losing our bright youngsters to Seattle, to Silicon Valley, to Wall Street, when we could be helping them use the marvelous TMT telescope to explore, and perhaps challenge or even replace our deepest and most fundamental knowledge of the cosmos, right from Hawaii. I cannot imagine a more rewarding time to work together, honoring and rescuing the past, and preparing the way for educational prosperity for generations to come.

Updated Dec 14, 2021. Graham DeVey
I support the UH draft master plan to keep astronomy alive, especially the Thirty Meter Telescope. Enough said, just do it!
Suzanne Anderson/Petersen

Sent from my iPhone
To whom it may concern,
I fully support UH's draft Master Plan to keep astronomy on Mauna Kea alive, including the construction of the Thirty Meter Telescope (TMT). I understand UH has managed astronomy on Mauna Kea for many years, and has sought a permit for the construction of TMT. TMT could be a huge asset for Hawaii, the United States and the world. I hope TMT is built sooner rather than later.
I have been advised that the Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world. Astronomy on Mauna Kea is good for Hawaii and is part of our culture. Astronomy on Mauna Kea provides opportunities for all Hawaii residents, including our keiki, to benefit in terms of scientific education, training, inspiration and pride in the many discoveries that occur there. The presence of astronomy on Mauna Kea is important for the Big Island community and our state as a whole for many reasons, including our economic diversification and the discoveries from the world-class research conducted there. Thank you for all of your efforts.
Aloha,
James C. McWhinnie
1206 Lunaai Street
Kailua, HI 96734-4545
Aloha,

I'm just an ordinary citizen, born and raised here, my wife's family are from the Big Island and lots and lots of blood Hawaiian relatives.
I am in total support of the UH TMT program and what it means to the university, our community, and the future of space science.

I recognize the respect Native Hawaiians have and desire to declare an area sacred. My question is, How far does the area extend? They claim, The whole mountain.
Is that feasible? Is that respectful of those Hawaiians and citizens of Hawaii who also respect the sacred aina but want to be able to utilize this magnificent location as one of the best and most optimal locations in the world for this type of hope? The hope that this may bring to future citizens the wonder and discovery of that great unknown, space?

It's time we move on to enhance our future with the TMT.

Thank you for your kind consideration.

Mahalo,
Paul
Aina Haina
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<tr>
<th>Your Name (required) *</th>
<th>Cheryl Ernst</th>
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<td>Your Organization (optional)</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:ernstwoman@yahoo.com">ernstwoman@yahoo.com</a></td>
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<tr>
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</tr>
<tr>
<td>Your Position (required) *</td>
<td>Support</td>
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</table>
| Your Testimony/Comments | As an olapa hula practitioner who has lived in Hawaii for more than half my life, I support the draft UH Maunakea management plan and construction of the TMT. I believe this is consistent with the ancestors, whose very history is one of discovery and exploration and whose reverence for Maunakea did not preclude use of the mountain’s resources (as evidenced by the adze quarry there).

I remember the days before UH management, and it angers me that opponents cite problems from that era, since corrected, along with misinformation in an attempt to sway public opinion against astronomical research. I have watched with sadness attacks on Native Hawaiians who thoughtfully express support for the project, creating an atmosphere of intimidation that prevents many who are not opposed from speaking out. |
Please imua - move forward with the management plan and astronomical research on Maunakea.

Your Testimony (pdf or word)
No file attached

Actions

Close

Export
I STRONGLY SUPPORT TMT for our State, for scientists worldwide but mostly for the people of Hawaii and the amazing opportunities that this project can offer. The possibilities that might unfold from this project are limitless. The prestige it will bring is massive and the highly skilled jobs, though limited in number, will be important in maintaining a level of excellence at UH. This, I am VERY hopeful that, at last, this incredible project can begin and that it will bring a greater spotlight on the excellence at UH and offer the opportunity for extensive exploration and discovery in the decades ahead.

Thank you for consideration of my strong support for this amazing project. What a dream!! Please enable that dream to become a reality!!!!!

Nancy Taylor
Support of UH's Master Plan for TMT & Mauna Kea

Lucia Kaplan <luciakaplan@me.com>  
To: bor.testimony@hawaii.edu  

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). We are so fortunate that the Island of Hawaii is the best place in the world to observe & study our Universe. I am in awe of the great scientists to study our cosmos & make important discoveries of our small planet fits into the larger expanse of outer space. I believe there is more than enough room for all to utilize the gifts of Mauna Kea. We must continue to move forward with plans to build TMT. It is time to build TMT now!

Mahalo,

Lucia Kaplan
luciakaplan@me.com
please do not let this project sink as the superferry did!!!!!!!!!!!!

mahalo, dick
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<tr>
<td>Your Name (required) *</td>
<td>Rita Salvanera</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:rsalvanera1@hotmail.com">rsalvanera1@hotmail.com</a></td>
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**Your Testimony/Comments**

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discovery that takes place in our home. This project gives our keiki a great opportunity to pursue a career in an important field while allowing them the ability to stay close to their family in the islands to work. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Your Testimony (pdf or word)

No file attached
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<thead>
<tr>
<th>Your Name (required) *</th>
<th>Mary J Culvyhouse</th>
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<td>Your Organization (optional)</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:culvyhouse@gmail.com">culvyhouse@gmail.com</a></td>
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Your Name (required) *
DonB. Nunes

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
ukuleledon@aol.com

Board of Regents Agenda Item (required) *
BOR IV.A. Informational Update on Maunakea Management

Your Position (required) *
Support

Your Testimony/Comments

Your Testimony (pdf or word)
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<th>Bryan Pearson</th>
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<tr>
<td>**Your e-mail address (in case we need to reach you) ***</td>
<td><a href="mailto:bancrep@aol.com">bancrep@aol.com</a></td>
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<th>Paula Frances Gillingham Bender</th>
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<td>choose title</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:pbender@hawaii.edu">pbender@hawaii.edu</a></td>
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Your Testimony/Comments

From thousands of years ago, the stars have guided all of Polynesia. Let us continue to grow our search into space to support Earth, train its people's to sail beyond what we know, and to never deny the pursuit of knowledge. If we say yes to denying our future, we tell each other that there is no point to wonder.
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<td>Melissa Virtue</td>
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<td><a href="mailto:mvirtue@aol.com">mvirtue@aol.com</a></td>
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Your Testimony (pdf or word)

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<td>Jason Forester</td>
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<tr>
<td><a href="mailto:hilobird@gmail.com">hilobird@gmail.com</a></td>
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<th>Your Testimony/Comments</th>
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<tr>
<td>As an engineer at a local technology company, I strongly support UH and the TMT. The new telescope will bring knowledge to the planet, jobs and money to the Big Island, and continue the excellent management that UH has provided for Mauna Kea.</td>
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<th>I Robert Nehmad</th>
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<td><strong>Your Organization (optional)</strong></td>
<td>Institute of Transportation Engineers</td>
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<tr>
<td><strong>Your e-mail address (in case we need to reach you)</strong>*</td>
<td><a href="mailto:rnehmad@hawaii.rr.com">rnehmad@hawaii.rr.com</a></td>
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**Your Testimony/Comments**

I support UH's draft Master Plan because it maintains astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea recommitts the culture demonstrated by indigenous
pacific island people (outstanding navigational skills). Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Your Testimony (pdf or word)
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<th>Your Name (required) *</th>
<th>Gerald Lai</th>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:gerald.kk.lai@gmail.com">gerald.kk.lai@gmail.com</a></td>
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As the Polynesians of old observed, studied, studied, and understood the movement of the stars in time, to explore, navigate, discover, inhabit and populate remote islands throughout the vast Pacific, the planning, investment, and development of astronomy, astrophysics, astro-mathematics, astro-technology on Mauna Kea under the management and guidance of the UH Mauna Kea Master Plan, will advance and expand in humanity's knowledge and understanding of the principles and forces that operate in the infinite cosmos, allowing humanity to navigate, discover, explore the Universe in Time and Space.
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Your Name (required) *
Veronica Ohara

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
hula.clay@gmail.com

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments
I fully support the UH Draft Master Plan because it keeps astronomy on Maunakea and TMT. UH has done an excellent job managing the Maunakea Science Reserve and surrounding areas. From managing the road, to getting rid of invasive species, care for the Wolf Spider and the Weiku Bug, the historic properties, the Nene Goose and all the flora such as the Aweoveo, the area continues to flourish. They did a through job with obtaining the construction permit for the Thirty Meter Telescope, meeting each requirement that seeks to protect the environment. I support the UH’s endeavor to renew Master Lease for the astronomy precinct so that Hawaii can continue to lead in this field of science. I hope my alma mater does everything possible to see that TMT is built on Maunakea and astronomy continues in Hawaii.
I know the anti TMT people would like to see an end to astronomy in Hawaii, but every institution of higher learning has an astronomy and physics department. For the last 50 years the observatories in Hawaii have contributed to knowledge for all humanity, from the Cosmic Microwave Background, to mapping out our galaxy Laniakea, to discovering Powehi. We cannot step backwards, we must move forward as our ancestors did on those long oceanic voyages. It is because we are Hawaiian, descended from master naked eye astronomers that we must continue to study the heavens and understand our place in the universe.

Your Testimony (pdf or word)

No file attached
In support of Mauna Kea Observatories and TMT

Peter Fuleky <fuleky@hawaii.edu>  
To: bor.testimony@hawaii.edu

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

---

Peter Fuleky  
Associate Professor  
UHERO and Department of Economics  
University of Hawaii at Manoa  
Saunders Hall 508  
2424 Maile Way, Honolulu, HI 96822  
Tel: (808) 956-7840  
Web: www2.hawaii.edu/~fuleky/
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I am sure you will see many direct copies of the above message. I have carefully read it to be sure I support the points that it lists. I add that under the UH the Mauna Kea astronomy complex is the best managed in the world. This is partially shown by the many amazing discoveries that have come from Mauna Kea. I know that the UH’s draft Master Plan represents many hours of careful study and decisions and I completely support it.

Please continue the great and valuable work.

Alan Mefford
The TMT

Rick Bowers <rickbow1@yahoo.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

Aloha, Just a note to voice my family's support for the Thirty Meter Telescope (TMT).  
Richard & Kanison Bowers  
Hawi Hawaii Island
Aloha University of Hawaii Regents,

Please accept my attached letter in support of the Proposed Maunakea Master Plan.

Mahalo,

Nancy Sakamoto | General Manager

Kona Commons
74-5444 Makala Blvd. | Kailua-Kona, Hawaii 96740
Direct: (808) 334-0005 | Cell: (808)896-5308
nsakamoto@mmirealty.com | www.mmirealty.com
December 14, 2021

UH Hilo Center for Maunakea Stewardship’s Proposed Maunakea Master Plan – Support for UH Board of Regents Approval

UH Board of Regents Special Board Meeting
Thursday, December 16
via virtual meeting

Aloha University of Hawaii Regents,

I am Nancy Sakamoto, submitting supportive testimony for the approval of the Proposed Maunakea Master Plan in my capacity as an active community member, and as a tutu for my grandchildren who offer much promise as the next generation of Native Hawaiian leaders.

I have been actively involved in the Kona Kohala Chamber of Commerce, the Kailua Village Business Improvement District as an advocate for stewardship of our valuable resources here on Hawaii Island.

I’ve kept up to date on the stewardship of Maunakea, through presentations and engagement. The Center for Maunakea Stewardship, formally known as Office of Maunakea Management, has been successfully managing its lands on the mountain, implementing state policy on astronomy since 2000. Let’s remember that nearly sixty years ago, it was the State of Hawaii who wanted to develop astronomy in Hawaii. Looking towards the future, I would ask all of us to take pride in this accomplishment.

This new draft management plan takes us forward into the next few decades, ensuring good, sound management of the unique resources found on Maunakea. The balance struck in the master plan limits development that protects the resources while ensuring world class astronomy continues in Hawaii, providing inspiration for our island students. How fortunate we really are.

I support the draft and I ask you to as well.

Mahalo for allowing this opportunity to share my comments.

Nancy Sakamoto
I support Astronomy on Mauna Kea

Ken D <kenya1953@hotmail.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Ken Deehr
Hawaiian Paradise Park
Keaau, HI
Imua TMT

Alistair Bairos <alibaba@hawaii.rr.com>  
To: bor.testimony@hawaii.edu

Tue, Dec 14, 2021 at 1:33 PM

Imua TMT.docx

14K
RE: UH’s Master Plan

I am writing in full support of UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

The way to the future is guided by roads from the past: knowledge of the stars - astronomy - is what brought our forebears to these islands.

We honor the accomplishments of those who came before by continuing to advance the study of the stars for all the world’s peoples. And at the same time enhancing our local and state economy and providing opportunities for our keiki.

Keep up the good work - I mua TMT!

Mahalo and aloha,

Ali Bairos
Aloha:

I am a resident of Kailua-Kona and would like my voice to be heard. Mauna Kea is a resource for ALL of the Big Island residents and scientists visiting the telescopes. Mauna Kea is one of the best locations for stellar and interstellar research to be done. The benefit of the TMT to the entire island is something all people on the island should approve.

Hawaiians, when the took off from their island in the South Pacific, were navigators, able to cross unfathomable ocean to “find” our beautiful islands. They were star navigators of the highest rank and should be applauded by all astronomers and navigators even today. The TMT consortium was willing to provide money to the island schools for STEM subjects which as we know, can lead to highly paid positions after college. But if we wish to keep our people on the island, they NEED jobs hiring in those fields. I want our gifted children and young adults to see what can happen by seeing highly successful people living among them, hearing their stories, and believing that they, too, can succeed. That can only happen if the money is pumped into our schools, and TMT is a willing partner in this endeavor.

UH has mismanaged the mountain for a long time but it can and must involve more than a few people. Please plan on doing what's right for the mountain and for the Big Island. Hold meetings here on our island, not on Oahu. Come here to our island and hold meetings around the island so regular people have a say. Regular people have good ideas and you must hear them personally.

Mahalo for your time,

Greg Olsen
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<th>Your Name (required) *</th>
<th>Thayne Currie</th>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:thayne.currie@gmail.com">thayne.currie@gmail.com</a></td>
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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I have reviewed the Maunakea UH Master Plan – E O I Na Leo. This is a thoughtful document, and I strongly believe that the Boards should approve the Master Plan, pending modifications/clarifications.

I also agree with the Task Force’s other conclusions, including that it should engage in sustained outreach efforts and that it should continue to manage the MKSR – either solely or as a major partner in a reorganized management structure -- and support world-class astronomy.

I have the following additional comments on UH’s past management and on the Master Plan itself, requesting some minor modifications.

**Master Plan comments:**

- In agreement with the National Science Foundation’s comments, my main criticism is that the Native Hawaiian community needs to have a clear voice in the management of Maunakea if for no other reason than UH’s management area includes at least some land – Lake Waiau, Pu’u Poliahu, etc. – upon which Hawaiian traditional and customary practices unquestionably occur. The existence of Kahu Ku Mauna, cultural training, and a promise of deeper engagement is most welcome. But I believe the Master Plan would be substantially improved with a discussion of how to not just consult the Hawaiian community but involve said community in the governance of Maunakea itself.

- Likewise, I agree with NSF that describing how new guidelines on observatories lessen environmental or cultural resource impacts.

As one specific example, in multiple places the document describes how facilities must convert to a zero-discharge waste system by 2033. A reader is not given the motivation for this rule. One could infer that UH is somehow conceding that the current waste disposal systems pose a threat to the island’s water, an often-repeated bit of pseudoscience from the TMT contested case hearing. Instead, moving to a zero-discharge system is an action that lessens cultural impacts as many practitioners believe that the deposit of waste into summit grounds is culturally inappropriate.

- Re: the UH commitments on decommissioning (Sect 4.1.2). First, it should be clearly acknowledged that the multi-observatory decommissioning steps are spurred by TMT’s CDUP. I.e. TMT in exchange for multiple older telescopes. This is alluded to in Sect 4.3.2.1 but should be clearly spelled out. Furthermore, Appendix E describes that UH will receive input from other organizations – including Hawaiian organizations – on which additional telescopes would be decommissioned by 2033. I think it would be more appropriate for Hawaiian organizations to have a vote in this process, not merely be consulted. This suggestion goes back to the first comment: that the Native Hawaiian community should have a clear voice in the management of Maunakea.
UH’s past management:

- I very strongly believe that the University of Hawai‘i has done an exceptional job managing and protecting resources on Maunakea for at least the past decade. As the Independent Auditor’s Report acknowledges, “the cultural and natural resources on the state conservation lands on Mauna Kea are some of the best managed and protected lands in the entire State. The area is clear of trash, the invasive species are being removed not only by OMKM but volunteer groups, and the OMKM Rangers to ensure public safety on Mauna Kea.”

- The inventory of cultural/historical sites is exhaustive and well documented. In my years on Mauna Kea, I have seen cultural practitioners free to engage in their activities without harassment but with respect from UH. The cultural orientation program required for all Mauna Kea astronomy personnel is well presented.

- As evidenced during TMT’s most recent Contested Case Hearing, UH has done an exceptionally thorough job in documenting and protecting Mauna Kea’s natural resources. Arthropod surveys are well thought out and detailed. The weiku bug population has recovered. Documentation and surveys of plant species is also well thought out.

As I said in the auditor’s report, UH’s stewardship of the land is a stark contrast to the poor stewardship that some TMT protesters have on the Pu‘u Huluhulu encampment. UH’s commitment to laws and regulations is a stark contrast to lackadaisical attitude from state and county law enforcement. Furthermore, mistakes that are often attributed to UH instead lie at the feet of the state itself. For example, it was the state that has allowed protesters to damage planets and scatter plants at the MK Access Road. It was the state that refused to prosecute Palikapu Dedman’s disinterment of remains and placement of bones on the TMT site in an act of protest and against state law.

My Background:

- I have gone to Mauna Kea for the past 14 years for astronomical observations and thus have seen the state of the mountain prior to the completion of the CMP, during the early years of its implementation, and up to recent times.

- I have not shied away from pointed and public criticism of UH or the Institute for Astronomy in other contexts. For example, as an interviewee for EnVision Mauna Kea I expressed extreme frustration and anger at IfA for "a lack of courage" in direct and frank discussions with some TMT opposition leaders in order to have a future where the telescope is built on Mauna Kea in the most peaceful way possible. While I am strongly encouraged by the new leadership at IfA, I remain extremely concerned about the lack of engagement by IfA faculty in general.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<th>Ali Bairos</th>
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Your Testimony (pdf or word)

[Imua TMT.docx (13.4 kB)]
RE: UH’s Master Plan

I am writing in full support of UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

The way to the future is guided by roads from the past: knowledge of the stars - astronomy - is what brought our forebears to these islands.

We honor the accomplishments of those who came before by continuing to advance the study of the stars for all the world’s peoples. And at the same time enhancing our local and state economy and providing opportunities for our keiki.

Keep up the good work - I mua TMT!

Mahalo and aloha,

Ali Bairos
**Public Testimony Form - University of Hawaii Board of Regents**

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# Public Testimony Form - University of Hawaii Board of Regents

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**Your Testimony/Comments**

I support the proposed Master Plan; however, I disagree with the University's futile effort to appease the opposition by sacrificing scientific and educational opportunities.

---

**Your Testimony (pdf or word)**
Glee Stormont <gleestormont@gmail.com>  
To: bor.testimony@hawaii.edu  

Tue, Dec 14, 2021 at 2:02 PM  

Please support the TMT; we need to continue looking outward.

mahalo,
glee stormont
Time to continue the voyage into the unknown the Hawaiians began centuries ago. Ancestors sailing across and unknown, open ocean in search of knowledge were the true pioneers of life. Instead of hiding behind imaginary fears, these brave warriors faced uncertainty and the unknown to seek knowledge, happiness and new adventure. Open your minds and hearts to the unknown as the ancestors did when they began to travel to unknown worlds.

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a much better job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. It was the stars that led the ancestors to these beautiful shores full of opportunity. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Sent from Mail for Windows
Mauna Kea Plan

Marilyn Seely <marseel@aol.com>  
To: bor.testimony@hawaii.edu

Dear Regents,

I write to you to express my support for the Plan. I have followed the process for the several years you have published information on your plans and the pros and cons expressed by the community.

I confess that I am not as familiar with the objections to the project from the Hawaiian community or the proposals UH has made to rectify their concerns regarding stewardship. My concern stems from the potential of further developing a viable world class astronomy program directly beneficial to the University and the state with major world wide implications for other countries who participate in this type of research and development.

I find it difficult to imagine sacrificing such an opportunity for the near and far future. It is heartbreaking to give up this dream. Surely a compromise can be reached with those who object so we can assure our children and grandchildren a chance to be part of this monumental endeavor.

It is part of the spirituality my family feels for the precious mountain and the many questions we hope it will answer about our universe. Are we alone? What wonders are yet to be discovered about our home planet, solar system and galaxy. Can we protect ourselves from an interstellar collision? And many others.

I get chicken skin when I think of the wonders of such a program and what it could offer.

I trust you will find the path through the star lit skies just as the sailors across the Pacific did in their voyages of discovery. There is so much at stake in this treasure hunt for us all.

Thank you for your consideration of my testimony.

Marilyn Seely  
Kaneohe Hawaii.  
Sent from my iPhone
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!
To Whom It May Concern,

I support UH’s draft Master Plan because it supports astronomy and the Thirty Meter Telescope. UH astronomy is on the cutting edge of science and we need to keep it there.

Gary Kato
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely,
T. Yun
I have lived in Hawaii for over 26 years. I have worked as a lawyer in Hawaii for the entire time and have a small law firm in Kona. I have one daughter who was born and raised on the Big Island and is now on the mainland and applying for graduate school in the medical field. I strongly support astronomy and been fascinated with the study since childhood.

I STRONGLY SUPPORT THE UH MASTER PLAN REGARDING MAUNA KEA AND CONTINUING WITH THE TMT. I personally think that the objectors have latched onto what they see as an anti-ha’ole cause and haven’t considered the real essence of what they are protesting. Ancient Hawaiians were fascinated by the stars and even found their way from Tahiti to Hawaii through astronomy. I am humbled to live on the Big Island with a mountain so able to launch exploration and assist with research into life itself. I am also very much in support of education and exploring areas of wonder. The protestors’ children will also greatly benefit from having a resource of this caliber right here at home. I believe the mountain is proud to be contributing to such lofty efforts.

I don’t have time to camp out Mauna Kea for months as a sign of opposition, as I’m very busy helping many people with very difficult legal problems. I question if the protestors have done much to help others on this island as they have a lot of free time to spend complaining and away from any home or work life.

Respectfully submitted, Kimberly A. Jackson, Esq.

Kimberly A. Jackson
Law Offices of Kimberly A. Jackson, LLLC
75-5782 Kuakini Hwy, Suite C-2
Kailua-Kona, HI 96740

Phone: (808) 329-4421
Facsimile: (808) 329-4508
www.kimjacksonlaw.com
Aloha,

I write to offer my support for the new Master Plan so that the Thirty Meter Telescope can be constructed without any further delays.

Regards,

Chris Tipton
Aloha,

Thank you for the opportunity to voice our organization’s support for the Proposed Master Plan for the UH Maunakea Lands. Our testimony is attached.

Sincerely,

Miles Yoshioka
Executive Officer
Hawaii Island Chamber of Commerce
1321 Kino’ole Street
Hilo, HI 96720
Phone: 808-935-7178
miles.yoshioka@hicc.biz
www.hicc.biz
https://www.facebook.com/HawaiiIslandChamberofCommerce

Hawaii Island Chamber_BOR testimony 12142021.pdf
134K
December 14, 2021

TO: University of Hawai‘i Board of Regents

FROM: Miles Yoshioka, Executive Officer
Hawai‘i Island Chamber of Commerce

SUBJECT: Support for Proposed Master Plan for the UH Maunakea Lands

Aloha Chair Moore and all distinguished Regents,

The Hawai‘i Island Chamber of Commerce, formed in 1898 by the business community of the Island of Hawaii, has continued to be a dedicated supporter of scientific and, in particular, the astronomical enterprises on Maunakea.

In 1963, the Executive Secretary of this Chamber, Mr. Mitsuo “Mits” Akiyama began his quest to rebuild the economy of Hawaii Island, then devastated by the 1960 tsunami that hit Hilo Bay, much as how the COVID-19 pandemic is affecting Hawai‘i Island’s economy today. Through the efforts of Mr. Akiyama, Mauna Loa astrophysicist Howard Ellis and astronomer Dr. Gerard Kuiper, the first telescope was placed on the mountain a few years later for site testing, a precursor to the world-class astronomical center it is today.

Our chamber continues to stand with Hawaii’s business community in support of astronomy, science, culture and environmental stewardship. The economic benefits of this industry are significant. There are hundreds of local residents currently working in the industry earning good wages and supporting their families and community.

Initially through the Office of Maunakea Management and now, through the Center for Maunakea Stewardship, UH has dedicated its management efforts to the protection of the natural and cultural resources while ensuring the UH managed lands on the mountain allow for world-class astronomy. A point we should all be proud of.

HICC members have actively participated in every management plan process, invasive weed pulls and one of our members was awarded for her efforts in partnering with CMS for environmental stewardship. We are working together in our community to ensure best management practices continue for Maunakea.

The University of Hawaii has sought to balance multiple community interests when it comes to Maunakea. The balance struck in the Master Plan limits
telescope development and protects natural and cultural resources, all while ensuring a world class astronomy program for Hawaii continues.

We stand in support of the Master Plan. We call on you to support the Master Plan as well and continue stewardship efforts to malama Maunakea.

Thank you for your time.
To whom it may concern,

I support the University of Hawaii (UH) draft Master Plan because it encompasses astronomy on Mauna Kea including the Thirty Meter Telescope (TMT). I also have confidence in UH continuing to manage Mauna Kea after over 20 years of active involvement. UH has received a legal permit for the construction of TMT, a major Multi National Collaboration that will produce significant data and knowledge on our understanding of the Universe and science. Our existing telescopes have been a major attraction for visitors around the world and TMT will further serve to establish Mauna Kea and Hawaii as a world class location for astronomy in one of the best locations in the world to explore the night sky. TMT will also attract scientists and technicians creating more jobs in Hawaii not only for TMT but also the support companies needed for this major undertaking.

Thirty years ago Hawaii was concerned that its main industry was tourism and the construction of telescopes was a way to attract higher technology positions to the islands, TMT can serve the same purpose and attract firms to establish design, R&D, software and robotics centers and diversify the employment base within Hawaii.

The Hawaiian ancestors arrived here after traveling vast distances in voyaging canoes and navigating at night using only the stars to guide them. An amazing act of skill and seamanship and I think that they would be extremely proud to know that Mauna Kea is now the premiere site for astronomy and expanding knowledge that dates back some 1500 years.

With respect

Clive B Davies PhD
Support for UH's Master Plan.

Art McDonald <art@snolab.ca>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Cc: Art McDonald <art@snolab.ca>  
Tue, Dec 14, 2021 at 4:54 PM

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is your culture. Astronomy on Mauna Kea provides opportunities for your keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and your state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely

Art McDonald

2015 Nobel Physics Laureate

Art McDonald

Gordon and Patricia Gray Chair in Particle Astrophysics, Emeritus, Nobel Physics Laureate 2015

Department of Physics, Engineering Physics and Astronomy
Queen's University
Kingston, Ontario, Canada K7L 3N6
Ph: 613 533 2702 Cell: 613 5411405 Fax: 613 5336813
Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, providing research and employment opportunities to residents of Hawaii. The summits were never “sacred land” and access for any religious purposes would not be restricted by the telescope project.

Please do everything in your power to complete the TMT as soon as possible.

Thank you,

Gail Wong
Hawaii Resident

Sent from my iPhone
Our family fully supports the University of Hawai‘i continuing their oversight and management of Mauna Kea, and support their draft Master Plan towards renewal of their Master Lease. Divisive as this issue has become there is no denying the historic, indigenous importance of continually seeking enrichment through the study and knowledge of our night skies. The informed curiosity which led the ancestors to the islands of Hawai‘i is the gift and endowed responsibility for us now: to seek, learn, caretake and share.

There have been assertions that past management of Mauna Kea was less than it should have been, and that any past shortcomings should deny UH continued stewardship, and furthermore deny all astronomical studies at the summit. Whether this accusation is fair or strategic, humanity can and does learn from experience, including gained knowledge of better practices. It would be a sad disservice to determine there is no place for scientific study on Mauna Kea, and that it be strictly a spiritual temple. Mauna Kea has been, can, and should be both, and so much more. The potential to collaborate on a richly rewarding future for education, enrichment, honoring traditions, inspiring our keiki, and yes increased economic diversity is there. It is all possible.

Civility, respect, patience, listening, compromise, and inclusion is needed from all. Imua the responsible collaboration for astronomy on Mauna Kea; imua TMT.
Support for UH TMT Astronomy

Gene <groundsg001@hawaii.rr.com>
To: bor.testimony@hawaii.edu

Aloha

Support the UH TMT activities on Mauna Kea. I believe it is a tribute to our Hawaiian culture as well as furthering our knowledge and understanding of the universe.

Mahalo I am practically a life-long resident of Hawaii, a pioneer of solar energy usage and a long time farmer and rancher. I love the aina.

Gene Grounds
To whom it may concern,

My name is Eric Takasugi, a resident of the Big Island and I strongly support the Thirty Meter Telescope (TMT).

I also support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including TMT. I believe that UH has done a great job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. TMT has also shown their commitment not only to science and astronomy, but also to the community through their numerous contributions to education and job opportunities for people on the island.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Imua Kilohana and imua TMT!

Thank you for your time.

Sincerely,
Eric Takasugi
高杉勇人
December 16, 2021 BOR meeting - Testimony from the Kona-Kohala Chamber of Commerce

Wendy Laros <wendy@kona-kohala.com> 
To: bor.testimony@hawaii.edu 

December 14, 2021

RE: December 10, 2021 Proposed Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo.

To the University of Hawai‘i Board of Regents,

The Kona-Kohala Chamber of Commerce brings together the business community as a strong, united voice to address key issues in our community, on our island and in our state. Founded in 1968, our 430 member businesses and organizations represent a wide range of industries such as agriculture, aquaculture, astronomy, banking, construction, education, finance, food service, healthcare, media, non-profits, retail, real estate, tourism, technology, transportation and more. We exist to provide leadership and advocacy for a successful business environment in West Hawai‘i. Our goal is to enhance the quality of life for our community through a strong, sustainable economy on Hawai‘i Island.

We support the proposed Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo. We believe in the UH’s mission and purpose to “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom and values while fostering mutual understanding and respect.”

UH acknowledges this special place is a destination for residents and visitors seeking cultural, educational, recreational, and exploration experiences. With entities in place such as the Center for Maunakea Stewardship, ‘Imiloa Astronomy Center and the Institute for Astronomy, the University of Hawai‘i has broad resources, vast knowledge and a steadfast commitment to provide the best possible stewardship under very complex circumstances.

We strongly support UH management and state lease renewal on Maunakea. The University of Hawai‘i is by far the best option for a management structure on Maunakea and the lease renewal of 2033 is an urgent matter. The University has taken significant steps to address issues and improve management. We applaud the depth, scope and considerations embedded in the Master Plan pertaining to land use and facilities along with the Comprehensive Management Plan that fully outlines related activities and resources.

The Kona-Kohala Chamber of Commerce strongly supports the astronomy industry on Maunakea noting significant scientific discovery, global leadership, educational outreach, workforce pipelines, jobs and economic impact. Hawai‘i has worked diligently to diversify its economic sectors and attract high tech industry to create more opportunities. Hawai‘i’s astronomy sector provides needed economic diversity with a statewide impact of $167 million. Astronomy activities generate over $52 million in earnings, over $8 million in state taxes and 1,400 jobs statewide. We are very grateful to the UH Institute for Astronomy and Maunakea’s astronomy industry for well-developed, impactful programs that better prepare Hawai‘i students to become the workforce for higher paying science and technology jobs in Hawai‘i’s 21st century economy.
We support culture, science and environmental stewardship on Maunakea. We understand and respect the cultural values associated with Maunakea and believe science and culture can and will harmoniously exist in this special place. In 2017, we recognized the University’s commitment to culture on Maunakea when the Office of Mauna Kea Management, now Center for Maunakea Stewardship, was the recipient of the Kona-Kohala Chamber of Commerce Pualu Award for Culture and Heritage. The Chamber’s Pualu Awards recognize businesses, organizations or individuals that work together for the betterment of Hawai’i Island. The meaning of pualu translates to “all together, in unison, and cooperative.” (Pukui & Elbert, 1986).

We support expanded educational activity and construction of a new UH observatory at the Halepōhaku Mid-Level Facility to continue the important work of teaching, training and conducting research. As mentioned in the plan’s opening message, “Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawai’i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.” In Part 2, Section 3 of the Master Plan, it states, “The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management.” In the UH Commitment Regarding Use of Halepōhaku, it states, “The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope.”

Lastly, the Kona-Kohala Chamber of Commerce strongly supports the development and future operations of the Thirty Meter Telescope (TMT). Although this Master Plan does not specifically address TMT, we must voice our support for this permitted project. Since 2009, TMT has contributed millions of dollars to educational initiatives for Hawai’i Island students that include The Hawai’i Island New Knowledge (THINK) Fund, Workforce Pipeline and Akamai Internship Program. Additionally, TMT will provide 300 local and specialized construction jobs during the construction phase, and once the telescope is complete, employ 140 staff. TMT’s commitment is to fill these positions with as many Hawai’i residents as possible and use local businesses for support services. We must acknowledge the positive contributions of TMT for our island community.

We appreciate the opportunity to voice our support for the UH Master Plan for the Maunakea Lands, E Ō I Nā Leo.

Sincerely,

Wendy J. Laros, President & CEO

Kona-Kohala Chamber of Commerce
75-5737 Kuakini Hwy, Ste. 208
Kailua-Kona, HI 96740
(808) 329-1758
wendy@kona-kohala.com
December 14, 2021

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We appreciate the opportunity to voice our support for the UH Master Plan for the Maunakea Lands, E Ō I Nā Leo.

Sincerely,

Wendy J. Laros, President and CEO
Kona-Kohala Chamber of Commerce
I support UH master plan on Maunakea and TMT.

Sent from my iPhone
I spent twenty seven years as a Professor of Animal Science in the College of Tropical Agriculture and a joint Faculty in the Dept of Physiology in the John Burns Medical School. I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Dr. Charles W. Weems
Emeritus Professor of Animal Science
College of Tropical Agriculture
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Peggy Regentine
WCC & LCC Faculty-retired

--

Peggy Regentine
TMT is true science. Watching Hawaii’s economy tank over the past year and a half, we definitely need to get a positive contribution not only to our economy but to our environment, to our children’s education and to our culture. TMT provides all of this and more.
Keep TMT!
Meryl Abrams
Aloha,

I wanted to share with you my support for the TMT project. I feel TMT would benefit the state of Hawaii for the following reasons:

1. Research for the benefit of many – not just the scientific community at large, but also for aspiring scientists here in Hawaii. I envision high school and college students serving in some sort of internship program that would benefit their learning.

2. Aspiring our youth – we already see a “brain drain” of our youth to the mainland due to a lack of technology jobs. Why not give them an opportunity to stay in Hawaii?

3. Providing much needed jobs – as a former resident of Hilo, I understand jobs that pay well are hard to come by. The TMT would provide construction jobs, support staff and secondary jobs once the TMT is complete.

4. Funding for the UH – I’m not a finance person, but I’m sure the TMT would be able to generate funding for the UH through various grants.

Mahalo for listening to my thoughts,

Kevin Ancog
(808)457-2546
Jan1192@aol.com
To BOR:

We need UH's new Master Plan in place in order to renew UH's Master Lease for Mauna Kea and keep the astronomy industry, including TMT, in Hawaii! This is an important, clean industry for Hawaii. This will advance knowledge for all people of the world. The master plan is well thought out and shows a sense of honor and responsibility.

Aloha, Ruth Robison

Sent from my iPhone
Ruth Robison, Ph D
International Student Advisor
University of Hawai‘i at Hilo
Retired
UH master plan

yvonne.yvnn@gmail.com <yvonne.yvnn@gmail.com>  
To: bor.testimony@hawaii.edu

As a resident of Hawaii for the last 40 years I have been pleased with the UH master plan and the emergence of Mauna Kea as the premier site for astronomy in the world. I would like to see UH maintain this position and not be bullied by an extremely small but loud minority determined to remove UH and astronomy from Mauna Kea under the guise of "religion", which was not practiced until a road to the summit was built for observatories. Hawaii can lead the world in precious little, but I would much rather it lead the world in astronomy than homelessness.

Gregory B. Wilson, M.D.

Sent from my iPhone
Aloha to all,

As a French astronomer who lived with all his family for several years in Waima (Big Island), who made the main part of his scientific career on the top of Mauna Kea, thanks to the Canada-France-Telescope and also from many collaborations with UKIRT, Keck telescopes, JCMT, Gemini North, I fully support the completion of the UH Master plan. It will continue what was just at the beginning in 1980, the year I arrived in Hawaii which has since given so many results. And TMT is just in the line of the developments of this exceptional site, with first the generation of the 3 - 4 meters telescopes, then the 8 to 10 meters and now a 30 meters.

For sure, the presence of astronomy on Mauna Kea is vital for the Hawaiian people but also for the worldwide scientific community. So, please don't let a stupid nationalism and a poor populism take the lead. I want to trust your understanding of your true interest, your open mind for a bright future of the science from Mauna Kea.

Mele kalikimaka

Jean-Pierre Maillard

--

*************************************************************************
* Dr Jean-Pierre Maillard       *
* Institut d'Astrophysique de Paris (CNRS, UPMC)   *
* 98bis Boulevard Arago, 75014 PARIS - FRANCE   *
*-----------------------------------------------*
* bureau : 48A (rdc)             *
* tel : 33(0) 14432 8139 mob: 33(0) 66040 6126 *
* courriel : jean-pierre.maillard@iap.fr         *
*************************************************************************


Testimony in favor of approving Mauna Kea Master Plan

Dear Regents:

This communication is to express my support for your approval of the revised Mauna Kea Master Plan. I was a member of the Mauna Kea Management Board from 2004 to 2012, when the original Master Plan was developed and approved. My paramount concern has always been the well-being of the natural resources on Maunakea. On the MKMB, we organized a team of people – observatory supporters, objectors, and agnostics alike – to prepare the Natural Resource Management Plan (NRMP) component. My comments concentrate on that aspect of the Plan, as there are many others who are more qualified to discuss other aspects such as the interface with Native Hawaiian cultural practitioners, tourism, etc.

The NRMP was recognized as one of the best plans for management of State lands and has served as model for other areas. Our component plan called first for the protection of rare species and habitats, second for dealing with invasive species, and third with research on the biology of the mauna, which was still not fully documented. A series of goals and objectives and actions were developed to get to work on this. Not only was the plan visionary, it was effective. Under the guidance of the Master Plan and OMKM, all these objectives were pursued with a remarkable degree of success, considering we are talking about the government after all! We now have a much greater understanding of the ecology of the wekiu bug, we have a full flora of the summit area, and we know much more about the permafrost and subsurface hydrology.

I think natural resource management of Maunakea has gotten an unfairly bad rap. There was bad management at one time – I was a protestor myself in the 1990s after construction of one of the observatories left a giant trash pile that blew in the wild summit winds halfway to Hilo. We came up in a pickup truck and retrieved what we could, cursing the University of Hawaii for their malfeasance. But in 2000, when a new management structure emerged, and Barry Taniguchi helped provide the community leadership the mauna really needed, things turned around dramatically for the better. Development of the Master Plan – as contentious as that was – helped solidify that. It is a challenge to manage the multiple permitted uses on the mountain – but we should not just tear down the observatories and kick out the curious tourists and local snowplayers in their lifted trucks. We need some balance. Despite a plethora of fake news, the mauna can be managed with current uses and minimal impacts. Astronomy has been and can be even a greater source of funding for critical management. The new Master Plan redoubles the focuses on working with the Native Hawaiian community to celebrate the mauna and reduce adverse effects. The Center for Maunakea Stewardship has been a very positive addition and has helped outreach into the community in a deeper way than ever before. I urge you to take steps to approve the pre-final Master Plan so that we can continue to take care of the natural and cultural resources and truly malama Maunakea for the greater good of our citizens.

Ron Terry
We support TMT

poin9@aol.com <poin9@aol.com>  
Reply-To: poin9@aol.com  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu> 

We support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and we wholeheartedly support its completion. We hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and we are proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Thomas Pinkert  
Susan M Schneider  
68-3755 Piki Place  
Waikoloa, Hawaii 96738  
808-883-3998
Support for master plan

Lois Magnussen <magnusse@hawaii.edu>  
To: bor.testimony@hawaii.edu

I have been dismayed by people disobeying the law and impeding the progress of astronomy on Maunakea. Please provide timely support to the new master plan so astronomy can continue.

Lois Magnussen
I support TMT

Roy Massey <royrm56@yahoo.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawai'i Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

It's good for the community, the Island and the world! Please help us move this forward to improve the sciences!!

MAHALO!

Roy Massey  
Hilo, HI
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

<table>
<thead>
<tr>
<th>Your Name (required)</th>
<th>Ann Lum</th>
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<tbody>
<tr>
<td>Your Organization (optional)</td>
<td></td>
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<tr>
<td>Your e-mail address (in case we need to reach you)</td>
<td><a href="mailto:annllum967@gmail.com">annllum967@gmail.com</a></td>
</tr>
<tr>
<td>Board of Regents Agenda Item (required)</td>
<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<tr>
<td>Your Position (required)</td>
<td>Support</td>
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**Your Testimony/Comments**

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work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

The future of high tech in our state is linked to the success of astronomy on our mountains, especially
telescopes on Maunakea. High Tech is our state's hope for future diversification. We don't have much else -
do we really want more tourism? Maunakea is unique on this earth, and the excellent conditions for
astronomical research are also unique to Maunakea. We must maintain this opening to the universe.
Polynesians in the distant past used the science of astronomy to navigate the whole Pacific; we can continue
to use this scientific gift to navigate our world now and for future generations.
Mahalo,
Ann Lum

Your Testimony (pdf or word)
No file attached
## Public Testimony Form - University of Hawaii Board of Regents

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<table>
<thead>
<tr>
<th>Your Name (required) *</th>
<th>Gordon Fleig</th>
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<tbody>
<tr>
<td>Your Organization (optional)</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:gefleig@aol.com">gefleig@aol.com</a></td>
</tr>
<tr>
<td>Board of Regents Agenda Item (required) *</td>
<td>BOR IV.A. Informational Update on Maunakea Management</td>
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<td>Support</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>I support science, astronomy, and the wonderful observatory installations of the past and for the future on Mauna Kea.</td>
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**Your Testimony (pdf or word)**

*No file attached*
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<th>Your Name (required) *</th>
<th>Alan Tokunaga</th>
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<tr>
<td>Your Organization (optional)</td>
<td>University of Hawaii Manoa, Astronomer Emeritus</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:tokunagaa001@gmail.com">tokunagaa001@gmail.com</a></td>
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## Your Testimony/Comments

I am an Astronomer Emeritus at the UH Manoa Campus. I worked at the UH from 1980 to 2016 and have therefore seen and participated in the growth of astronomy on Maunakea from the early days. I am a former director of the NASA Infrared Telescope Facility. I was born and raised on Maui, and like many people in the islands I am saddened by the controversy of astronomy development on Maunakea. Stopping the TMT and even stopping all of astronomy in Hawaii will not resolve the issues raised by the Kia‘i movement and it will not yield a better future for the next generation. I believe the proposed Master Plan is a good step toward addressing the many issues that face the University and the community. It will take generations to realize the objectives of the
plan and to address the concerns of the Kia'i movement. No plan will please everyone, but we must move forward and I urge to BOR to adopt this plan.

Your Testimony (pdf or word)
No file attached
### Public Testimony Form - University of Hawaii Board of Regents

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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<td><strong>Your Position (required)</strong>*</td>
<td>Support</td>
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<tr>
<td><strong>Your Testimony/Comments</strong></td>
<td>As a BI resident, I fully support TMT and the UH lease of Maunakea. The revised Master Plan is very thoughtful and inclusive, I applaud your efforts and contributions. Thank you.</td>
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<td><strong>Your Testimony (pdf or word)</strong></td>
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**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<td>Robert E Hammond</td>
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<td>I strongly support the University Astronomy Management programs on Mauna Kea. Robert Hammond</td>
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<th>Your Name (required) *</th>
<th>Mary Beth Laychak</th>
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<td>Support</td>
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<td>Your Testimony/Comments</td>
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**Your Testimony (pdf or word)**

[Laychak_BoRtestimony_support.pdf](Laychak_BoRtestimony_support.pdf) (33.6 kB)
To: University of Hawai‘i Board of Regents  
From: Mary Beth Laychak  
Subject: Testimony on Proposed Master Plan for the University of Hawai‘i Maunakea Lands  
Date: December 15, 2021

As a staff member of one of the Maunakea Observatories, I am reassured to see a long range commitment to astronomy in the draft Master Plan; E Ō I Nā Leo. The Maunakea Observatories are the scientifically most productive collection of telescopes in the world and I am proud of the work that we do.

I have the privilege to represent my facility and the Maunakea Observatories (MKOs) in the community. The core values described in the Master Plan resonate with me and reflect the work that myself and others strive to do in the community. It is my opinion that the MKOs have a kuleana to the mauna and the community to respect the wahi pana that is Maunakea and share understanding of the universe gained by the telescopes with the broader community. We also have the obligation to be good neighbors, and contribute to the community we call home. Over the past 50 years, the MKOs have not always done as much as we can or should have, but we strive to do better moving forward.

Over the past decade, I have been a part of the MKOs efforts to do better, both within and outside of our traditional STEM outreach. From the start of COVID, the MKOs saw the need in our community and asked the community “how can we help?” When our community answered that critical needs were food insecurity and our keiki, we started to do the work to help. The W.M. Keck Observatory created a program called Farm to Families where they bought produce from local farmers then donated the food to local organizations in need. MKOs staff volunteer at the Hawai‘i Island Food Basket, packing and helping to distribute food across the island. I am one of the founders of Keiki Heroes, a community based program to educate and empower keiki to feel in control of their own health during COVID. Keiki Heroes is now a statewide program with materials distributed through all the major health organizations in the state. The MKOs are a critical sponsor of Keiki Heroes, supporting the program since day one.

Community engagement is a cornerstone of my work. In my experience, engagement works best when it is a two-way street: asking the community what they want and then listening to the answer. I encourage the Board of Regents and the University of Hawai‘i to truly live up to the values outlined in E Ō I Nā Leo by involving community voices— specifically Hawaiian voices. I believe the Maunakea Observatories are eager to support and willing to lead these efforts, working collaboratively with the University and our community to achieve these goals.

Thank you for the opportunity to provide testimony,  
Mary Beth Laychak
Aloha Chair Moore and members of the University of Hawai‘i Board of Regents,

Mahalo for the opportunity to submit testimony in support of a long-term future for astronomy on Maunakea. It is my personal belief that there is much good to come from the continuation of Hawai‘i astronomy, so long as we are able to come together as a community to advance a new model of collaboration, reciprocity and trust.
I was born and raised in the islands, and have the privilege of working with the Maunakea Observatories (MKO). I have been a part of the telescopes’ good-faith efforts to reset relationships with members of the Hawai’i Island and statewide community. It is clear that, over the past five decades of astronomy on Maunakea, the experience our community members have had with representatives of the astronomy field has been uneven and inconsistent. For some, the observatories are valuable resources, close collaborators, celebrated partners. For others, the observatories are mysterious ivory towers, perceived as inaccessible and unwelcome in our home. The fix for this unhealthy dynamic didn’t start today, nor will it be complete tomorrow; it will take a while, and only happen through genuine effort sustained over time, directed in the shared best interest of our community.

The past several years have been a sharp wake-up call. These events have underscored the need to put much more focus toward caring for the relationships that make healing, collaboration, and new beginnings possible.

As others will likely point out, the draft Master Plan, E Ō I Nā Leo, lacks specificity in describing how community voices - specifically Hawaiian community voices - will inform Maunakea management decisions in the future. This reset of relationships and power dynamics is essential to the success of any future management plan. Ensuring that the community derives meaningful benefit from the presence of astronomy on Hawai’i Island is critically important as well, and I encourage the Regents to probe further into the University’s position on how that benefit can be shaped in collaboration with our community, and delivered in a meaningful way. The MKOs are eager to support and willing to lead in that effort, and will work collaboratively with the University to advance these goals.

Mahalo for your consideration of my testimony, and for your attention on this important set of issues.

With aloha,
Christine Matsuda

christine.matsuda@gmail.com
(808) 321-2473

Your Testimony (pdf or word)
No file attached
Dear Board Members,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I was a friend of Paul Coleman and I know he supported everything that you are doing for Hawaii.

Stay strong for Paul.

Thank You

Carl King
406-550-3984
cwmking057@gmail.com
Dear Board of Regents,

On behalf of the Directors of the Maunakea Observatories (MKO), I am respectfully submitting testimony on Agenda Item IV. B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai'i Maunakea Lands -- E O I NĀ Leo (Listen to the Voices) that will be discussed at the Special Board of Regents Meeting on December 16, 2021.

The testimony is attached to this email as a PDF file.

Mahalo,

Rich Matsuda

W. M. Keck Observatory

MKO Testimony_UH Master Plan.pdf
119K
To: University of Hawaiʻi Board of Regents  
From: Maunakea Observatories  
Subject: Proposed Master Plan for the University of Hawaiʻi Maunakea Lands, E Ō I Nā Leo  
Date: 15 December 2021

The Maunakea Observatories (MKO) appreciate the University’s efforts to guide land use decisions for the next two decades through the proposed Master Plan, E Ō I Nā Leo. MKO extends our support and desire to collaborate with all stakeholders on Maunakea as the important and weighty future responsibility of governing the Maunakea Science Reserve lands is determined.

The MKOs agree with a long range commitment to astronomy in the draft Master Plan. We believe science is important, and astronomy is beneficial to our local community, the state of Hawaiʻi, and the world.

For the past five decades, telescopes on Maunakea have provided important new knowledge about the universe, including two Nobel Prizes in Physics, the very first image of a black hole - Pōwehi, detection of ʻOumuamua - the first known interstellar object passing through our solar system, the first image of a solar system beyond our own - HR8799, and much more. The publicly shared scientific knowledge produced on Maunakea deepens our understanding of the laws of nature and even addresses fundamental questions about human existence.

There are many positive benefits that result from our scientific endeavors. We share astronomy with students through our many STEM outreach activities, such as the Maunakea Scholars Program that provides opportunities for Hawaiʻi public high school students to engage in research using highly-coveted time on Maunakea telescopes. We provide high-quality internships to college and community college students from Hawaiʻi through programs like the Akamai Workforce Initiative. And, we offer a wide range of engineering, technical, scientific and administrative employment opportunities for Hawaiʻi residents in our workforce of approximately 500 jobs at the MKOs. In addition, the MKOs rely on scores of local businesses to conduct our operations. The total economic impact is significant, contributing approximately $200M per year to Hawaiʻi’s economy.

While we believe in the benefits of astronomy, we acknowledge that for many in the Native Hawaiian and local community Maunakea is a wahi pana of immense environmental and
cultural significance that takes priority over other activities. Knowing this, we strive to conduct astronomy in a balanced and respectful way with care for the environment and respect and support for Native Hawaiian cultural practices. Our thoughts are in alignment with the recently released Decadal Survey on Astronomy and Astrophysics 2020 (Astro2020) from the National Academies of Sciences, Engineering, and Medicine, which includes a major recommendation for “the development of a new model for respectful, collaborative decision-making in partnership with Indigenous and other local communities.” As such, the MKOs recommend the plan be more specific about its impacts on the indigenous Native Hawaiian and local communities, and that the plan outline processes for meaningful partnership and collaborative decision-making with these communities, which we look forward to participating in.

Thank you for the opportunity to provide testimony.

Aloha,

Director Hilton Lewis, W. M. Keck Observatory (Keck I and Keck II)

Interim Director Andy Sheinis, Canada-France-Hawaii Telescope

Director Paul Ho, James Clerk Maxwell Telescope (East Asian Observatory)

Director John Rayner, NASA Infared Telescope Facility

Director Michitoshi Yoshida, Subaru Telescope
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Jean Toyama

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
toyama@hawaii.edu

Board of Regents Agenda Item (required) *
BOR IV.A. Informational Update on Maunakea Management

Your Position (required) *
Support

Your Testimony/Comments

The TMT is part of the grand vision of our beloved Governor of Hawaii, John Burns. Mauna Kea's potential was part of how he saw Hawaii and its role in the future. According to grandson Brendan, Governor John Burns, "dreamed of the creation of world class telescopes". Because of his efforts to make this happen, the road leading up to the telescopes on Mauna Kea is called "John A. Burns Way." This was in 1970.

Experts will extoll the location, the pristine conditions, I point out the continuity of history. The building of the TMT will be the pinnacle of the vision he had for our state and the continuation of Queen Lili‘uokalani’s passion for science. She said, "The ancient Hawaiians were astronomers."
Whatever valid issues exist between the supporters and protesters of the TMT, I hope that they can be worked out in a fair and honest way, perhaps in the Hawaiian *Ho`oponopono* way.

I think about the ancient ones— *na po`e kahiko*—robust, curious, hungry to find. How they would have relished exploring nōho`i— *the Milky Way*—to watch creation unfold by slicing through time diving into the waves of the Big Bang.

Jean Toyama

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<td>Carol S Long</td>
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<td>Support</td>
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<td><strong>Your Testimony/Comments</strong></td>
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<tr>
<td>While I respect the Native Hawaiians, I believe in science. TMT goes beyond Hawaii and involves the whole world. TMT will benefit all of mankind. We all need to look at the whole picture and see that TMT is for everyone.</td>
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Your Name (required) *
Shanna Kahealani Souza

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
shannasouza0124@hotmail.com

Board of Regents Agenda Item (required) *
OTHER

OTHER (Please describe) *
TMT

Your Position (required) *
Oppose

Your Testimony/Comments
I OPPOSE TMT! DO NOT BUILD! PLEASE PROTECT THE NATIVE LANDS AND THE RESOURCES. DO NOT BUILD! DO NOT BUILD!
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<td>Adrienne Sepaniak King</td>
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<tr>
<td>I support TMT.</td>
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<td>I support UH's draft Master Plan.</td>
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<tr>
<td>I support keeping astronomy on Mauna Kea—- not just alive but thriving.</td>
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<tr>
<td>I support the renewal of the UH's Master Lease with the DLNR to manage Mauna Kea and all the telescopes.</td>
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<tr>
<td>I am the mother of two boys and grandmother to two more of part Hawaiian ancestry.</td>
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<td>Hawai‘i's keiki need UH and this state's unequivocal commitment to encourage astronomy and build TMT.</td>
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<td>Why?</td>
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Page 1527
TMT is arguably the greatest project to ever be developed in Hawaii. I am confident UH will continue to do an incredible job of managing Mauna Kea, noting that Mauna Kea is actually among the few best managed state-owned parcels of land in Hawaii. The University has been especially sensitive with respect to obtaining a permit for the construction of TMT, which would join all the observatories administered by UH as the most scientifically-productive collection of telescopes in the world. Surely UH regents must be aware that US intelligence agencies have been directed to give unclassified reports about Unidentified Aerial Phenomenon (UAP), reported by US Navy pilots and others, to Congress in June 2022. The government's publicly admitted interest in these phenomenon presents an unbelievable opportunity for this University to assume a prime position in efforts to learn if we are the only planet with life in this universe. The kids know about these sightings. They are engrossed in Star Wars and enthralled with anything to do with outer space. Why deny that hunger to learn to our keiki right here in our own state?

Too few science educational and enrichment opportunities are available to marginalized populations in Hawaii. The United States government aims to address this problem. STEM education in Hawaii would be significantly enhanced by recognizing the unique opportunity Mauna Kea presents. The building of TMT will tell all our children that they can learn about the stars and the planets right here in Hawaii— they need not leave home. TMT will reinforce the historical fact that their ancestors traveled all over the Pacific and Indian Oceans before the Europeans even knew Hawaii or the Pacific Ocean existed! Supporters of TMT, and that is actually the majority of the population in Hawaii, know their children want to be able to proudly proclaim: "I am of _____ ancestry and I discovered this, I invented that, I identified!!! an "aerial phenomenon", I made a difference—not just for my people, my culture, my family, my country, but for the whole world—the universe! Yes, me! I did it and you can too!"

Approve the Master Plan and ensure renewal of the Master Lease with the University of Hawaii. IMUA!

Adrienne King

1 Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) Design and Development Launch Pilots

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF’s commitment to diversity, inclusion, and broadening participation in these fields. NSF INCLUDES supports efforts to create networked relationships among organizations whose goals include developing talent from all sectors of society to build the STEM workforce. This initiative seeks to improve collaborative efforts aimed at enhancing the preparation, increasing the participation, and ensuring the contributions of individuals from groups that have traditionally been underrepresented and underserved in the STEM enterprise: women, persons with disabilities, African Americans/Blacks, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, Native Pacific Islanders, and persons from economically disadvantaged backgrounds. Significant advancement in the inclusion of these groups will result in a new generation of STEM talent and leadership to secure our nation's future and long-term economic competitiveness. https://www.nsf.gov/pubs/2017/nsf17522/nsf17522.htm

Your Testimony (pdf or word)

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| **Your Name (required) *  
Jonathan Williams** |
| **Your Organization (optional)** |
| **Your e-mail address (in case we need to reach you) *  
jpw.hawaii@gmail.com** |
| **Board of Regents Agenda Item (required) *  
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)** |
| **Your Position (required) *  
Support** |
| **Your Testimony/Comments** |
| I urge the BoR to approve the new Master Plan for Maunakea. One of the ways in which Hawaii is known around the world is through its astronomical discoveries, many of which are given Hawaiian names. The University is improving its outreach and education to the broader community and astronomy is a great way for us to grow and diversify the Big Island economy with minimal environmental impact. Maintain strong oversight but allow astronomy to continue on Maunakea! |

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**Your Testimony (pdf or word)**
Public Testimony Form - University of Hawaii Board of Regents

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<th>Your Name (required) *</th>
<th>Robert Scott</th>
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<tr>
<td>Your Organization (optional)</td>
<td>Hawaii resident over 20 years</td>
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**Your Testimony/Comments**

There needs to be continuity in management concerning Maunakea and UH has a balanced vision to remain its keeper. One of important issues for me about this TMT build is based on our economy and what this project will contribute to that.

**Your Testimony (pdf or word)**

No file attached
Building TMT is a matter of time. The protesters' game is to delay as long as possible in the hope that we give up. Part of this strategy involves changing the management system of Mauna Kea, especially removing the University of Hawaii as the manager of Mauna Kea because that would create chaos for the astronomy community. The reason for this is that UH holds a Master Lease from the Department of Land and Natural Resources to manage Mauna Kea and all the telescopes have sub-Leases with UH based on that Master Lease. If UH's Master Lease is not renewed, it will create legal ambiguity as to whether the subleases are still good and possibly push the telescopes off Mauna Kea. Therefore, the protesters believe that stopping UH's Master Lease stops TMT. That is not strictly true, but it will create enough risk that we encourage TMT supporters to support renewal of UH's Master Lease.

UH is currently applying for that lease renewal. Part of that process is the creation of a number of plans, including a Master Plan. The UH Board of Regents is holding a hearing to discuss the Master Plan. The protesters are using this opportunity to attack the plan as a way of attacking TMT and destroying the astronomy industry.

The reality is that UH actually does a really good job managing Mauna Kea. Mauna Kea is some of the best managed land in the state.

Gerald Takase
Full support of TMT
1 message

Barbara Ells <ellsb001@hawaii.rr.com>  Wed, Dec 15, 2021 at 9:10 AM
Reply-To: Barbara Ells <ellsb001@hawaii.rr.com>
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

I mua Kīlo Hōkū and I mua TMT!

Barbara B. Ells
Ben W. Dysart
Aloha >
I OPPOSE TMT ! HAWAIIANS NOT FOR TMT !

1 message

Shanna Souza <shannasouza0124@hotmail.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Wed, Dec 15, 2021 at 9:12 AM

I OPPOSE TMT ! this email I received asking to support is malicious and disgusting.

Go build a telescope on YOUR HOUSE then

Shanna
Aloha Regents,

I’m an active member of our Kona community and have served as Association of Hawaiian Civic Clubs Hawaii Council President. I have also served on the Hawaii Island Burial Council.

I support the University’s management on Maunakea.

The mauna holds very special meaning to all of us of Hawaiian ancestry. It’s where we can all look forward as a people knowing our ancestors traveled the vast oceans using the very sky we see from its summit today. It’s the best place in the world to study the universe. The mountain is a portal to the universe – a place to study the stars that lead our ancestors to these islands.

What an honor for future generations of native Hawaiian people to know that their mountain stands in the world’s light. Maunakea represents our future, we respect the value and significance and cultural values keep us moving forward and progressing. Our culture is living and vibrant.

I believe the University of Hawaii is successfully managing the mountain, they are successfully implementing the Comprehensive Management Plan, which we all as a community supported, and they are protecting the cultural, scientific, educational and natural resources within their kuleana of land. The draft Master Plan before you continues the stewardship efforts to malama Maunakea.

When an agency of any kind has to manage public lands, finding a balance to multiple public interests is necessary. That challenge and responsibility is not unique to UH or to Maunakea. The draft Master Plan before you strikes that balance.

This is good stewardship. Please approve the Proposed Master Plan for the UH Lands on Maunakea.

Mahalo for your time,

Gene ‘Bucky” Leslie

Sent from my iPhone
Even though I live in Michigan and have never been to Hawaii, I have friends who live there and several relatives and friends who have travelled there! The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and your state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up! The tourism industry in Hawaii has suffered greatly because of the pandemic, so please be good to the astronomy folks! We all need the science of astronomy, so this is good for ALL of the USA!

- - - - -

Judy Kline
(248) 506-7923
The international community has weathered the years-long legal storm and protests, and continues to support the TMT in spirit and in substance. The majority of people in Hawaii support the TMT and associated Mauna Kea area management. Even the majority of people with Native Hawaiian ancestry support the TMT. The UH has addressed the issues well, and should remain the master lease holder for telescope management. It is time we move ahead instead of taking a step into stagnation.

Fred Fogel
Volcano
POB 1071  96785
808 265 1659
I support your Master Plan
1 message

Joycelyn <hazwell@gmail.com>
To: bor.testimony@hawaii.edu

I am writing to state my support for your Master Plan.

Sent from my iPad
In support of UH's Mauna Kea Master Plan and Continuing Astronomy

1 message

Daniel Smith <smithdan@hawaii.edu>  To: bor.testimony@hawaii.edu  Wed, Dec 15, 2021 at 10:12 AM

I write in my individual capacity to support UH's dra. Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). From what I have heard, UH has done a good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. In my observations, the science community is very respectful and treats the land well. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is properly viewed as an extension of the Pacific Islands cultures that brought people to these islands. Astronomy has earned high respect. I believe Papa Mau would have supported continued astronomy on Mauna Kea.

Astronomy on Mauna Kea provides opportunities for our youth to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. As an educator, I hope my students will have opportunities associated with astronomy and the TMT.

On a personal note, as an undergraduate I, among others, had the opportunity to work for “big science” in a physics lab exploring the nature of fundamental particles. It greatly improved my academic experience and lead to my life-long involvement in computer science-related work. TMT will make possible many such opportunities of for the younger generations in Hawaii.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please extend the Master Plan and keep astronomy on Mauna Kea.

Respectfully, E Malama Pono,
Daniel C. (Dan) Smith, PhD
1-808-462-6346, Mobile
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I urge UH to do everything in its power to ensure TMT is built.

If the TMT is not built on Maunakea, the long term future of astronomy in Hawaii is bleak, as no project involving the construction of a major observatory on Maunakea (the best site in the world for ground-based astronomy) will want to go through the struggle, with likely a negative result, that the TMT project has been going through for so long. Maunakea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Maunakea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. It brings a valuable dimension to our lives and culture that few communities have. The presence of astronomy on Maunakea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and recognition of the world-class nature of the work it brings to our state. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Sincerely,

Tom Geballe
Hilo
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Please, don't let the protesters convince you otherwise. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Aloha

I would like to express support for the Maunakea Master Plan as well as the entire Astronomy community as we work through this difficult stage of our transformation. Although Maunakea has been mismanaged in the past, it has worked hard to improve on all fronts including cultural, environmental and scientific. I grew up with telescopes on Maunakea and I see them as a valuable part of our future. Thank you for hard work and perseverance.

Mahalo
Katherine Roseguo

Please - remember, reduce, reuse, recycle, renew, refresh, recover, restore, respect, refuse, reintegrate, rethink, revitalize, replant, replanet, regreen, refurbish, regrow, rot.
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest scientific projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture.

Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Please keep it up. I mua Kilo Hōkū and i mua TMT!

Matt Smith
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<td>Gerald Mayfield MD</td>
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<td>Hawaii certainly needs the astronomy resource to succeed including TMT a clean, educational, scientific endeavor. The State is overly dependent on tourism and more of the entities such as astronomy and the TMT help to offset that dependency.</td>
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Please don't listen to a bunch of loudmouth racial supremacists. Build the TMT!

Diver Dave Taylor diverdaves@msn.com
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Sent from Mail for Windows
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Michael Hoenig

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
mdh@cantab.net

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments
I whole-heartedly support the UH draft Master Plan because it keeps astronomy on Maunakea alive (including the Thirty Meter Telescope). UH has done a very good job of managing the mauna over the past 20 years, as someone who has worked there I know this isn't always an easy undertaking. It's easy to criticize when things do go wrong, but overall I am very confident in UH's ability to manage Maunakea - it is now some of the best managed state-owned land in Hawaii! Astronomy on Maunakea provides a huge amount of scientific knowledge to all of humanity. I am happy the observatories exist and proud of the work they do. Astronomy provides clean, skilled jobs for our residents. It also provides opportunities for our keiki to in terms of education and training. The presence of astronomy
on Maunakea is vital for the Big Island community and our state as a whole, for the economic diversification and the world-class nature of the work that goes on there. Please keep it up, and please do everything within your power to ensure TMT gets built here.

Mahalo for your time,

Michael

Your Testimony (pdf or word)

No file attached
I support the UH Master Plan

Michelle Sandell <mysandell@gmail.com>
To: bor.testimony@hawaii.edu

I support the UH Master Plan because I support astronomy in Hawaii, astronomy supports Hawaii, and I believe the University of Hawaii has stepped up well to handle the major responsibility of managing Mauna Kea in the past. I am confident they will continue to do so in the future. The Master Plan’s expanded efforts to incorporate other disciplines for field studies at Halepōhaku, to be committed to the teaching telescope there, and to increase the ways the larger community can connect with the decision-making process are all exciting things to look forward to.

I am proud of what Mauna Kea stands for, and I am proud that this evidence of care for the land and for each other, and the pursuit of knowledge on Mauna Kea is a manifestation of important virtues that humans prioritize. Let’s keep up the good work and move forward with UH’s draft of the Master Plan.

Sincerely,
Michelle Sandell

Dr. Michelle Sandell
PhD, Northwestern University

Writer, DiscoverHawaiiScience.com
Website guru, Ke Ola Magazine
Please follow our laws and court ruling. The Protesters have has their appeals over and over for 13 years, and compromises have been made, by the pro group. It is time to stand up for the majority, including Hawaiians, who want this built. No more delays, no more listening to their lies and rhetoric. Do what is right for all of us.

Mahalo, Jamie Reno

Paauilo, Hi.
Public Testimony Form - University of Hawaii Board of Regents

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<td>Peter Matlock</td>
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<td>Many wrongs to Native Hawaiians grievously need attention. There is vehement disagreement whether this can be done in concert with or in exclusion to Astronomy. Yet, driving away Astronomy (TMT, current telescopes) denies educational and life opportunities for Hawaii’s future generations— including for Native Hawaiians who bring valuable perspectives to advancing scientific excellence. If Hawaii becomes known for an anti-science attitude the negative impacts will extend beyond Astronomy to all scientific disciplines, hindering the ability of Hawaii’s children to thrive in the current century and diminishing our ability to solve critical problems. UH can and should lead the way.</td>
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Public Testimony Form - University of Hawaii Board of Regents

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<td>Your e-mail address (in case we need to reach you) *</td>
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Support for UH’s Master Plan for Maunakea

Georjean Adams <georjean@gmail.com>
To: bor.testimony@hawaii.edu

I support the draft Master Plan for the University of Hawaii Maunakea Lands dated December 10, 2021.

Maunakea is a special place for its beauty, cultural significance and uniqueness in the world. We share kuleana to keep it that way. The Plan shows careful consideration and balancing of both the cultural and scientific importance of Maunakea.

- Maunakea is the best location in the world for astronomical observation. UH should do everything it can to maintain that status. I support the cutting edge observatories on Maunakea, the decommissioning of observatories that are past their prime, and the building of new observatories as they meet standards in the Master Plan. Yes, I support building the TMT. I believe that the people employed by these observatories will continue to treat the mauna with the utmost respect. The world benefits from the discoveries made on our mauna. Our kama’aina benefit from the inspiration (and jobs) our observatories provide.

- Expanding educational opportunities is a great goal, as long as you are careful not to overwhelm facilities.

- Allowing cultural practitioners access to the summit is a given. But they, too, need to malama ka ‘aina. I’m disgusted at the continued ugliness of the protestors’ camp leavings and hope we never see such a mess up at the summit.

- Tourism (off-islanders and kama’aina) has to be managed and limited to prevent damage to the mauna and to facilities. I think the Plan outlines a decent approach, but I expect it will require adjustments as you learn what works best.

The University of Hawaii has learned a lot (and will keep learning) and has shown that it should continue managing the Maunakea Lands for the benefit of all.

Georjean Adams
South Kohala, Hawaii
I Support TMT

Terryl Leong <terrylberryl@gmail.com>  
To: bor.testimony@hawaii.edu  

Because Ancient Hawaiians developed healing methods like massage and plant-based medicines, I really feel they would have supported the education that the TMT project will give the world!

As long as all precious living things that the building of TMT structures would destroy are protected and found homes for, I support this project. All other space exploration structures not being used should be removed with the same consideration.

Terryl Leong  
(808) 782-7893 call or text  

Sent from my iPhone
To the University of Hawai’i Board of Regents:

I strongly support UH’s draft Master Plan. It keeps the vital work in the field of astronomy alive on Mauna Kea, including the Thirty Meter Telescope (TMT). In my opinion, the TMT is the most significant, leading-edge project to ever be developed in Hawaii, and UH should be doing everything in its power to ensure the TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and some of the most important discoveries in astrophysics, like “dark energy” and locating a “black hole”, have been made at the Keck. Astronomy, using the stars to navigate, is central to the Hawaiian culture, and how anyone, especially any dedicated educator could be against building the world’s greatest telescope here, in reality, runs counter to the Hawaiian culture. Astronomy on Mauna Kea also provides opportunities for our students on all grade levels to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Please make sure it is supported!
Mahalo and I mua TMT!
Elizabeth Miller
Volcano, HI 96785
Aloha e Regents,

I am writing in favor of the UH Mauna Kea Master Plan up for discussion at your upcoming Board of Regents meeting on December 16, 2021.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

I do have a couple of suggestions for how to improve the master plan.

1. After the decommissioning of the 5 telescopes promised with TMT, there should be no future restrictions on the development of Mauna Kea for astronomy purposes imposed by UH on future generations. The individual permitting process for each telescope can decide that. UH should not feel pressured by protesters to place artificial caps on the number of telescopes to be built on Mauna Kea.

2. UH should strive to explain that "culture" is a concept that embraces both scientific endeavor and religious experiences. Unfortunately, much of the discussion of Native Hawaiian issues in the plan provided an overemphasis on Kapuist religious beliefs and creation chants. The reality is more complicated. For starters, the kapu religion imposed on the islands by Kamehameha I was abolished by our ali`i 200 years ago. Continuing to invoke its beliefs, such as the kumolipo, or Native Hawaiians being descended from Papa and Wakea, in the name of the Hawaiian people is odd. Second, there were atheists in Hawaii even prior to the arrival of Captain Cook, so it was never true that Native Hawaiians uniformly believed in any particular religion. The belief that Mauna Kea is sacred, or mention of "Hawaiian worldviews" are unjust impositions on the freedom of thought for Native Hawaiians. Native Hawaiians are free to believe as we choose, both religiously and politically. UH should point out that claims of Mauna Kea's sacredness are ultimately "religious" beliefs. They are, at best, equivalent to scientific beliefs. Thus, both science and religion have a right to share the mountain with each other. And the sharing of the mountain by science and religion is the culture of Hawaii.

Mahalo,

Samuel Wilder King II
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Sincerely,

Euclid A. LoGiudice
16-2069 Gardenia Dr.
Pahoa, Hawaii 96778-7584
Support for TMT and the UH master plan

nrochele <nrochele@gmail.com> To: bor.testimony@hawaii.edu

Thu, Dec 16, 2021 at 6:23 AM

I have been a science teacher in the state of Hawaii for 40 years and believe that future generations will benefit from TMT and the University of Hawaii’s master plan.

Stay safe,
Nancy Rocheleau

Sent from Samsung tablet
Build TMT!!!

Ian Jenss <jenss96744@gmail.com>  
To: bor.testimony@hawaii.edu  
Thu, Dec 16, 2021 at 6:40 AM

I am writing this in support of the Thirty Meter Telescope. Here is an opportunity to respectfully connect Hawaii's past to its future. This has many layers of positive things that can benefit our community as well as students in every level of education. Jobs being one of the driving factors and astronomy the other. I hope this short letter helps to make this telescope a reality.

Sincerely,

Ian Jenss
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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Your Testimony (pdf or word)

I‘mua TMT.docx (89.7 kB)
I'mua re TMT

I support University of Hawaii's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). I have lived in Kamuela for 60 years and the UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture.

It is common knowledge among all of us who live in Hawaii that King Kalakaua showed immense interest in astronomy and stated in a letter to Captain R. S Floyd that he had a desire to see an observatory established in Hawaii. And Queen Liliuokalani oft noted that “The ancient Hawaiians were astronomers”. So it is fitting that the use of Mauna Kea as the world’s premier astronomical observing platform is a testament to the vision of our Hawaiian heritage.

Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our state. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.  I mua Kilo Hōkū and i mua TMT!
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<th>Your Name (required) *</th>
<th>Lindy Pounds</th>
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<td>Your e-mail address (in case we need to reach you) *</td>
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai'i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<td>Your Position (required) *</td>
<td>Support</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in Mauna Kea.</td>
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DRAFT
our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Your Testimony (pdf or word)
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Your Name (required) *
Alvin Toda

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
aet002@hawaiiantel.net

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands — E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments
I am a retired kupuna and support the TMT. The mountain is the best seeing in this hemisphere. I think that great knowledge can be learn from heavenly observations at that site.

I see no reason why the mountain can not be used in many different ways as long as the beauty of the place is respected and preserved. The people of Hawaii should be able to visit and learn from the area.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<td>Board of Regents Agenda Item (required) *</td>
<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<td>Your Position (required) *</td>
<td>Oppose</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>I am a Native Hawaiian descendent and I highly OPPOSE the Maunakea Plan.</td>
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Your Testimony (pdf or word)
No file attached
Theone Vredenburg <theonev1@gmail.com>  
To: bor.testimony@hawaii.edu  
Wed, Dec 15, 2021 at 10:18 AM

I support the UH Master Plan for Astronomy and the placement of the TMT on Mauna Kea, not only for the numerous opportunities and benefits they would provide Hawaii and its people but for the resultant worldwide recognition and honor of our original Hawaiian navigators and our beloved mauna!

Theone Vredenburg  
(Born and raised on its slope.)
15 UH RESPONSE TO MAUNA KEA WORKING GROUP’S HE LĀ HOU KĒAI MA MAUNA A WĒKEA: A NEW DAY ON MAUNA A WĀKEA
Mahalo for the opportunity to provide comments on the Mauna Kea Working Group’s ("MKWG") Draft Report to the Hawai‘i State Legislature entitled, He Lā Hou Kēia Ma Mauna A Wākea: A New Day On Mauna A Wākea (“Report”). It is clear from the Report that the MKWG worked diligently in fulfilling their charge.

We have organized our response around five themes that arise from the content of the Report: 1) The University of Hawai‘i (UH) embraces the value of the Kānāwai principles; 2) The MKWG’s recommendations risk the future of astronomy in Hawai‘i and beyond; 3) The complexities and costs of managing access to public lands have been underestimated; 4) Legal and administrative concerns; and 5) UH’s responsible stewardship of Maunakea.

Our cover letter summarizes our views on these themes with further elaboration provided in the Attachment. Our intent is to provide an overview of the real challenges and implications of the Report and provide background that should be considered prior to contemplating and drafting legislation seeking to build upon the recommendations in the Report. Further discussion is welcomed.

1. The Kānāwai principles are consistent with UH plans for Maunakea

We acknowledge and appreciate the holistic and integrated approach of the Kānāwai principles described in the Report. The symbiotic connections between the elements of nature, and of nature with humans, emphasizes the importance of sustaining balance between these forms. These principles are valuable guidelines for land use planning and decision making. We understand that stewardship of Maunakea is a privilege that requires a comprehensive and cohesive management program. The University embraces these perspectives, which are reflected in the integrated and balanced nature of our own Master Plan including our proposed update, our Comprehensive Management Plans, and our Administrative Rules that collectively and specifically outline our commitments and responsibilities to Maunakea, the state, and the communities we serve.

As you know, managing public lands, especially ʻāina with as many complexities and conflicting expectations is extraordinarily complex. We are committed to continuous improvement and look forward to improving the application and integration of these principles into the University’s existing and next plans within the context of governing laws and regulations.

2. The MKWG Report places the future of astronomy at risk

Foundational to the Report’s recommendations is the position of the MKWG that astronomy on Maunakea above the 9,200 foot elevation should be phased out as an allowed land use (Page 25).

Support for astronomy on Maunakea is a longstanding State policy going back more than fifty years. At that time, the State decided that it did not want to just be a passive landlord for the best observatories in the world but that Hawai‘i should be the home of a world-class program of astronomy research and education. This has enabled Hawai‘i to participate in and lead the discoveries that underlie human understanding of the origins of the universe and the celestial bodies around us. It is not an overstatement to say that what is at risk here is the future of
astronomy as a field of human inquiry, as a source of economic activity on Hawai‘i Island, as an inspiration for Hawai‘i’s youth, as a source of pride for the people of Hawai‘i, and as an area of international excellence for UH and our students. Consistent with its place in Hawaiian cultural tradition and cosmology, Maunakea stands as a uniquely treasured scientific and community resource.

Maunakea is truly deserving of the highest levels of stewardship. Decisions on access to Maunakea for culture, science, education, recreation, and commercial activities require broader policy discussions involving stakeholders across multiple communities and policy-makers on Hawai‘i Island and the State. The recommendation to eliminate astronomy is not substantiated by wider stakeholder input in the Report.

The risk to astronomy’s future is further amplified by the lack of specifics in the implementation plan for establishing the new Governing Entity proposed by the MKWG. Numerous steps would need to be achieved to establish the new Governing Entity including, but not limited to, enabling legislation, land transfers, development of land use and management plans, permitting requirements, development and coordination of administrative rules across jurisdictions, standard operations start-up, and the potential for appeals at multiple steps along the way. At the Board of Regents direction, the UH administration conducted its own analysis of alternate governance models for Maunakea in 2020. The MKWG’s projected timeline of three years to establish the new Governing Entity is unrealistic and exacerbates the risk to the future of astronomy due to the impending termination of the current general lease in 2033. These are no small steps and the lack of a viable business plan on top of these challenges makes success highly speculative, especially with the Report’s reliance on general fund appropriation.

3. The complexities and costs of managing access to public lands have been underestimated

Under the proposed powers and duties in the Report, public access appears to be more restrictive and does not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and economic (including commercial tour operator) uses. Does the MKWG propose to prohibit snow play? Hunting? Hiking? Who would determine the legitimacy of claims made by individual native Hawaiian cultural practitioners?

Access to Maunakea by Hawai‘i Island residents, including native Hawaiian practitioners, is one of the most contentious and consistently raised concerns in matters related to Maunakea. The Report underestimates the complexity of addressing public interests and coordinating across the various jurisdictions on Maunakea. The proposal to include adjacent State and private lands into the jurisdiction of the new Governing Entity exacerbates the operational complexities of the enterprise and significantly increases its resource requirements. It is also unclear on how new rules and procedures the new Governing Entity adopts would integrate with existing rules governing activities on DLNR, DHHL, County, and private landowner property that is included in the new land area defined in the Report. Importantly, who does the MKWG propose to allow to have access, who will it prohibit, and who will make decisions about how individuals are placed into categories that are allowed or disallowed access?

Finally, the Report does not meaningfully address the resource requirements of the new Governing Entity. Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so
that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

4. **Legal, administrative, and funding issues present risks for implementation of the MKWG’s proposal**

There are a number of legal, administrative, and funding concerns raised by the MKWG’s proposal that will require further analysis and discussion. These include but are not limited to:

   A. The potential constitutional concerns related to race-based membership of a government entity with control over state lands and resources.

   B. The Report does not account for the complexity of the various jurisdictions on Maunakea, and the variety of funding sources that will need to be shored up, or replaced with general funds.

   C. As discussed before, stakeholder representation on the board of the new Governing Entity will in and of itself create governance and funding problems.

   D. The complexities and risks of successfully working through the aforementioned tasks of realigning, much less simply coordinating, management of public lands that are currently under leases and/or the jurisdiction of different agencies with different administrative rules.

All of these are complex issues and any one of these is a potential show stopper given the contentious nature and resources required of them. Attaching the success of a newly established entity to highly speculative outcomes requires considerably more cost-benefit analyses than is provided in the Report.

5. **The University’s commitment and ability to successfully steward Maunakea has been demonstrated**

The University has acknowledged and apologized for its stewardship of Maunakea in the last century. Subsequent state audits of the University’s management of Maunakea have documented our commitment and improvement over time. In its *Report on the Implementation of State Auditor’s Recommendations 2014 – 2017*, the State Auditor noted that of the several audit recommendations from 1998, only four (4) were outstanding as of its November 2019 report. One item, directly under the control of the University, was completed with the University Board of Regents’ (“BOR”) adoption of Hawai‘i Administrative Rules (“HAR”) chapter 20-26 on November 6, 2019 (approved by the governor on January 13, 2020). The University is actively working on the remaining three (3) items in coordination with DLNR, which has final approval on these particular tasks. These remaining items are dependent on whether a new general lease is to be granted to UH and, more significantly, whether there is a future for astronomy on Maunakea, both of which are decisions outside UH’s sole authority.

The University is charged with implementing 103 management actions in the *Mauna Kea Comprehensive Management Plan*, adopted by BLNR in 2009 (“CMP”). The University’s implementation of the CMP was the subject of an independent review conducted by Kuiwalu in December 2020 at the direction of DLNR (“Independent Evaluation”). DLNR’s Independent Evaluation of the University’s implementation of the comprehensive management plan showed that UH had achieved good or some progress on 8 of the 10 desired outcomes identified in the
The two outcomes where we received a minimal progress rating are actively being worked on. This evaluation also found that people’s perceptions of UH’s effectiveness as manager were associated to whether people supported telescope development on Maunakea, i.e., no change in management practice will satisfy many of those who oppose TMT or even astronomy on Maunakea. This is not a management issue; this is a challenging and contentious statewide policy issue that is, again, not a decision that UH alone makes.

Our efforts to improve stewardship have been recognized by the community. In 2017 UH received the Pualu Award from the Kona-Kohala Chamber of Commerce for our education and outreach. In 2017 UH received a Preservation Commendation Award from the Historic Hawai‘i Foundation for our interpretative efforts. And in 2016 we received the Pualu Award for Environmental Awareness from the Kona-Kohala Chamber of Commerce. Finally, and perhaps most notable, in 2011 the Wekiu Bug was removed from endangered species candidate list because of our ecosystem restoration efforts.

The University should be judged by our complete record which shows substantial improvement over time across multiple dimensions. Our commitment has been reliably demonstrated in time, effort, and resources committed by us over the years in the exercise of our stewardship responsibilities for the privilege of access we have. The University believes that the criticism of “mismanagement” often levied against UH, and seemingly the basis for the Report, is now inaccurate and derives from the accusations of those who oppose the state policies in support of astronomy on Maunakea rather than the actual practices of the University.

For these, and the reasons further detailed in the Attachment, we humbly suggest that instead of creating a new entity, the focus turns to what the Hawai‘i Island community, native Hawaiian practitioners, Maunakea observatories, and DLNR have learned over time to continuously improve the University’s stewardship of what has become one of the most, if not the most complex land management challenge in Hawai‘i.

We are available for any questions you or others may have regarding our comments and our stewardship program.

Na māua iho nō me ka ‘oia‘i‘o,

David Lassner  Gregory Chun
President, UH System  Executive Director, Center for Maunakea Stewardship
ATTACHMENT

University of Hawai‘i (UH) Response to the Maunakea Working Group’s Draft Report: He Lā Hou Kēia Ma Mauna A Wākea: A New Day On Mauna A Wākea

1. The Kānāwai Principles are Consistent with UH Plans for Maunakea

UH acknowledges and appreciates the holistic and integrated approach of the Kānāwai principles described in detail in the Foreword, Introduction, and Chapters 2 and 3 of the Report. The symbiotic connections between the elements of nature, and of nature with humans, emphasizes the importance of sustaining balance between these forms. As stated in the report:

“Normalizing the use of these traditional kānāwai in our modern society protects the life of kanaka, flora and fauna, as well as the health of the environment and the balance of its natural cycles. Developing this worldview can start with an inquiry into native ecology, observing nature, developing a relationship and appreciation of natural phenomena, and exhibiting a sense of responsibility in protecting that which nurtures and feeds us, the ‘āina.” (Page 5).

The connected nature of our surroundings and, therefore, the importance of sustaining balance between the various branches of the natural world are well established in many indigenous cultures. It is a lesson lost upon a large fraction of the world’s population and as an institution grounded in science, UH finds the concepts laid out in the four kānāwai to be sound and relatable. They are the product of centuries of observation and learning in an island setting, developing practices that fundamentally sustain populations of living organisms, including humans, over long periods of time. Embracing them in the future makes sense, given the demonstrated success of their application in the past.

Chapter 3 of the Report is an attempt to bridge the elegant concepts laid out in the previous chapters into a management structure predicated on the kānāwai. Guiding principles are articulated, including:

“We are driven by creativity and innovation, constantly challenging the status quo. Our stewardship of Maunakea is informed based on existing knowledge and traditions (kānāwai) as well as on new and expanding knowledge. We are mindful and observant of needs, trends, and opportunities and seek new knowledge and opportunities in ways that enhance our ability to serve as stewards without jeopardizing our foundation of ‘āina aloha.” (Page 20).

This is an important statement because it explicitly acknowledges the importance of continuity in knowledge systems to support ‘āina aloha, past, present, and future through “...new knowledge and opportunities...”. It is a hopeful and upbeat statement, but the report fails to identify how the approach proposed would actually lead to “new knowledge and opportunities” for our community. It sets up a dichotomy of interests and begs the question, what is the ultimate goal of the proposed management model?

The management of public lands is complicated, as you know, and as any agency will tell you. But, unlike any other land management framework in the state, the University has several layers built into its management framework that includes the Hawai‘i Island community, academics, observatory operators, and the native Hawaiian community who are represented at various levels of decision making. This framework for managing lands on Maunakea was developed
over decades. The University has built constituencies, infrastructure, and funding to support its efforts. The University’s new draft Master Plan and our updates to the Comprehensive Management Plan consider and incorporate what has been learned. Through its experience, the University has successfully moved toward a more balanced goal of astronomy, stewardship, and respect for Maunakea.

The University understands that stewardship of Maunakea is a privilege that requires a comprehensive and cohesive management program. The University embraces the intent of the kānāwai, which is reflected in the integrated and balanced nature of our master plan and our proposed update, management plans, and administrative rules that collectively outline our commitments and responsibilities to Maunakea, the state, and the community in specific terms. These principles are valuable guidelines for land use planning and decision making and we are committed to continuous improvement and look forward to learning how to improve the application and integration of these principles into the University’s existing plans and policies and within the context of governing law and regulation. Maunakea lands currently managed by the University are ceded lands with great cultural significance to native Hawaiians. Ceded lands are held in trust for the five (5) purposes enumerated under section 5(f) of the Admission Act of 1959 and the kānāwai principles can help further balance those objectives.

2. The MKWG Report places the future of astronomy at risk

Foundational to the Report’s recommendations is the position of the MKWG that astronomy on Maunakea above the 9,200 foot elevation will no longer be an allowed land use:

“The Governing Entity shall develop a framework to limit astronomy development on the mauna, through development limitations that may include limitations on the number of astronomy facilities or an astronomy facility footprint limitation; provided that in establishing a framework to control astronomy development on the mauna, the Governing Entity shall establish a plan to return the mauna above 9,200 feet elevation to its natural state” (Page 25).

The Report also states that the MKWG had robust discussions over whether future legislation should limit the current astronomy footprint:

“The full Working Group had a robust conversation as to whether the Governing Entity should be prohibited from allowing either an increase to the current number of astronomy facilities or an increase to the current astronomy development footprint. Ultimately, the Working Group was not able to reach an agreement, with some members preferring not to set a specific astronomy footprint or astronomy facility number limit in legislation and others wanting a smaller footprint or less telescopes than what currently exists. Some members wanted a lower number of telescopes, such as the Governor's and the University of Hawaii's proposed nine telescopes. Nine telescopes, while a lower number than the thirteen telescopes that currently exist on the mauna, still represents an increase in the current astronomy footprint, which was unacceptable to some members” (Page 25 Footnote 5).

Section 5(f) of the Admission Act, provides that ceded lands trust purposes are “[1] the support of the public schools and [2] other public educational institutions, [3] the betterment of the conditions of native Hawaiians, as defined in the Hawaiian Homes Commission Act, 1920, as amended, [4] the development of farm and home ownership on as widespread a basis as possible for the making of public improvements, and [5] the provision of lands for public use.”
The Report is also not clear on the question of funding and the details of implementation are lacking:

“To support the Governing Entity, a special fund shall be created as an on-going revenue base of funding. The Governing Entity shall consider various supplemental revenue sources to be deposited into the special fund, including but not limited to renegotiated lease terms and fees; observatory use fees; common area maintenance; toll fees; general funds; ecosystem service fees; user fees; other surcharges or fee structures; and state, county and federal funding” (Page 27).

“To assure that the Governing Entity has adequate time to establish itself, the Governing Entity shall have a transition period of three years to assume management of Mauna a Wākea lands”; and,

“To help establish the Governing Entity, general funds should be allocated by the Legislature for at least the first five years. Special funds shall also be used to provide financial support for the Governing Entity.” (Pages 24 and 27)

Further, the Report states decision making regarding the new managed lands will be under the “sole authority” of the proposed new Governing Entity:

“The Governing Entity shall be the sole authority for the management of designated state-owned lands on Mauna a Wākea (See JURISDICTION)” (Page 24).

Collectively, the result of these proposed changes, i.e., uncertainty regarding: the future for astronomy, implementation requirements, and decision-making authority, is to increase substantially the risk to the ongoing viability of astronomy. Importantly, the process for implementing the recommendations must occur at an unprecedented pace to enable a future for Maunakea (Hawai‘i) astronomy. Numerous steps would need to be achieved including but not limited to enabling legislation, land transfers, development of land use and management plans, development and coordination of administrative rules across jurisdictions, and operations start-up. The projected timeline of three years to establish the new entity is unrealistic and exacerbates the risk to the future of astronomy due to the impending termination of the current general lease in 2033 (see section 5 herein for UH’s governance analysis). The lack of a viable business plan on top of these make success highly speculative, especially with the Report’s reliance on general fund appropriation.

It must also be noted that these changes require not just State of Hawai‘i approval but they must be embraced by US and international federal funding agencies that are wary of large-scale change without assurances of long-term stability. The prospect of protracted litigation, on top of all the other challenges to forging, funding, and implementing a new Governing Entity in the three years prescribed, will surely push the timescale for this proposal well beyond the horizon of viability for the existing Maunakea Observatories.

Support for astronomy on Maunakea is a longstanding State policy going back more than fifty years. At that time, the State decided that it did not want to just be a passive landlord for the best observatories in the world but that Hawai‘i should be the home of a world-class program of astronomy research and education. This has enabled Hawai‘i to participate in and lead the discoveries that underlie human understanding of the origins of the universe and the celestial
bodies around us. It is not an overstatement to say that what is at risk here is the future of astronomy as a field of human inquiry, as a source of economic activity on Hawai‘i Island, as an inspiration for Hawai‘i’s youth, as a source of pride for the people of Hawai‘i, and as an area of international excellence for UH and our students. Consistent with its place in Hawaiian cultural tradition and cosmology, Maunakea stands as a uniquely treasured scientific and community resource.

3. The complexities and costs of managing access to public lands have been underestimated

Under the proposed powers and duties in the Report, public access appears to be more restrictive and does not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and economic (including commercial tour operator) uses. Does the MKWG propose to prohibit snow play? Hunting? Hiking? Who would determine the legitimacy of claims made by individual native Hawaiian cultural practitioners?

Access to Maunakea by Hawai‘i Island residents, including native Hawaiian practitioners, is one of the most consistently raised concerns in matters related to Maunakea. The Report’s proposal appears to be more restrictive and may not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and commercial uses. For example, the Report states on pages 24 and 26:

“\[The Working Group recognized that the scope of managing an area of such important cultural significance and geographic size presents many challenges. Additionally, because Mauna a Wākea is the kuahiwi, or backbone, of Hawai‘i Island in a structural, physical, and spiritual sense, the Governing Entity should work toward decreasing the human footprint of all users and visitors of Mauna a Wākea.\]” (Emphasis added); and,

“The Governing Entity shall establish a management framework guided by the Kumu Kānāwai to manage access, stewardship, education, research, permitted uses for frequent and seasonal users, and overall operations. The Governing Entity shall also prohibit commercial use and activities (not including astronomy) above Hale Pohaku and develop rules to designate areas for permissible use, including defining "commercial use."; and,

“The Governing Entity shall consider restrictions via applications and registration processes to ensure user compliance. Additionally, the Governing Entity shall require an application for all recreational uses, including fees, and create guidelines on limits by monitoring the impacts of recreational use over time.”

In 2020 Governor Ige approved Hawai‘i Administrative Rules ("HAR") Chapter 20-26 which was developed by the University with significant public input received over multiple years, to be able to enforce our stewardship responsibilities. HAR Chapter 20-26 regulates commercial and public activities on Maunakea lands managed by UH. The rules allow activities subject to the impacts of those activities being addressed. Commercial activities, such as commercial tours, are regulated by permit and operators are required to pay for the impact they have on the resources and for use of public facilities. Commercial tour operators provide a needed service by reducing independent vehicles driving up Maunakea, and this activity provides economic opportunities for the local community. Under HAR 20-26 the University is authorized to levy fees and fines with the opportunity for appeal. The University regulates impacts to resources
caused by public and commercial activities, not native Hawaiian cultural practices. And despite vague criticisms to the contrary, the University has never denied access to native Hawaiian cultural practitioners.

Finally, the Report does not meaningfully address the resource requirements of the new Governing Entity. Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

4. Legal, administrative, and funding issues present risks for implementation of the MKWG’s proposal

There are a number of legal, administrative, and funding concerns raised by the MKWG’s proposal that will require further analysis and debate. These include but are not limited to:

A. The potential constitutional concerns related to race-based membership of a government entity with control over state lands and resources.

While we understand the intent, the designation of members of a state entity by race raises state and federal constitutional questions. Note that the Kaho'olawe Island Reserve Commission (HRS § 6K-5) and the burial council (HRS § 6E-43.5), both referenced in the Report, do not limit seats on its boards to “native Hawaiians.” Instead, for example, burial councils are comprised as follows:

“Regional representatives shall be selected from the Hawaiian community on the basis of the representatives’ understanding of the culture, history, burial beliefs, customs, and practices of native Hawaiians in the region they each represent.”

We acknowledge that other agencies have board compositions where seats are explicitly designated for native Hawaiians. For example, the Hawaiian Homes Commission Act § 202(a) provides that “at least four of the members shall be descendants of not less than one-fourth part of the blood of the races inhabiting the Hawaiian Islands previous to 1778.” And, the Papahānaumokuākea Council Charter provides that members shall include “three Native Hawaiian representatives.” However, the purposes of those bodies are distinctly different from the new Governing Entity. DHHL was established specifically for the benefit of native Hawaiians and Papahānaumokuākea is an interagency management collaborative where individual partners do not cede their jurisdiction to the collaborative. Board composition tied to race should be further evaluated, particularly when the authority of the new Governing Entity is to manage public lands and state resources.

B. The Report does not account for the complexity of the various jurisdictions on Maunakea, and the variety of funding sources that will need to be shored up, or replaced with general funds.
i. Public lands should remain with the State for the benefit of the public.

On page 24 of the Report, the MKWG states:

“The public land trust lands held by the Governing Entity shall be held in trust as part of the public land trust; provided that the State shall transfer management and control of the lands to a sovereign Native Hawaiian entity upon its recognition by the United States and the State of Hawaii”

This language mirrors Hawai‘i Revised Statutes § 6K-9, related to the Kahoʻolawe Island Reserve Commission. However, Maunakea is not Kahoʻolawe. While both are culturally significant, unlike Kahoʻolawe, Maunakea is actively used by the Hawai‘i Island community, including native Hawaiians, researchers, and others from across the state. These are ceded government lands that should remain with the State of Hawai‘i for the five (5) stated purposes under section 5(f) of the Admission Act.

ii. The Report’s proposal to expand the land area under a new Governing Entity adds uncertainty and complexity to an already complex management issue.

The Report recommends a significant expansion of currently managed lands, pulling in private lands and other state lands managed under different laws as follows:

“the jurisdiction area for the Governing Entity shall be state-owned lands above the 6,500 foot elevation line, inclusive of Pu‘u Huluhulu to the summit of Mauna a Wākea, in order to care for Mauna a Wākea through an integrated, whole systems approach. Additionally, for lands outside of its jurisdiction, the Governing Entity shall enter into cooperative management agreements with the Department of Hawaiian Home Lands, County of Hawai‘i, and private landowners whose lands are within the jurisdiction area.”

Conservative estimates of this expansion could include approximately 56,000 acres of DHHL property, and more than 50,000 acres and 3,800 acres designated as DLNR Forest Reserve (“FR”) and Natural Area Reserve (“NAR”) land, respectively, in addition to other unidentified state, county, and privately owned lands that are referenced. The Report does not provide any details on how the new entity will manage state and private lands, and it is unclear what is meant by the new Governing Entity having jurisdiction over adjacent private lands as proposed in the Report. The Report discusses the idea of cooperative agreements but there could be significant property right issues raised through this expansion.

iii. Powers and duties of the new Governing Entity are unclear and already exist.

Existing plans and rules developed and implemented by the University and DLNR over decades of learned and practiced management provide the integrated planning and decision-making framework suggested in the Report.
Chapter 3 of the Report details the powers and duties of the new governing entity on pages 24-25. Among other matters, it states that:

“...the Governing Entity shall develop a single plan that dictates the management of land uses; human activities, uses, and access; stewardship; and disposition. The plan shall be developed during the transition period; finalized and approved, and operational by the end of the transition period; and updated every ten years with a focus on long-term, comprehensive, coordinated planning for all of the managed lands. Additionally, the plan shall consider the state’s energy and sustainability goals, as well as impacts to climate change, including adapting to climate change and developing mitigation measures to climate change, and shall incorporate indigenous management and cultural processes and values.”

Before updating of the master plan for lands managed by the University on Maunakea, the University explored the idea of combining its two governing documents: the master plan adopted by BOR and the CMP adopted by BLNR. Based on the University’s assessment, in consultation with DLNR, we determined that combining them may not be practicable.

Both plans are implemented together and are consistent; however, each serves a different purpose. The CMP is a plan required when applying for a conservation district use permit. It addresses ongoing resource management practices to avoid, mitigate, or minimize impacts caused by proposed uses and activities. The master plan is the University’s vision for the lands it manages on Maunakea for a period of years, and it provides a framework for proposed land uses and decision making early in the planning process before a proposal is advanced to permitting, environmental review, and funding consideration. The University’s master plan and CMP, along with the administrative rules, collectively are required to achieve the state’s long-term goals of stewardship and sustainability.

Chapter 3 of the Report also provides that the new governing entity must comply with various statutes applicable to state agencies, but suggests that Maunakea lands be placed in the FR. On page 25 of the Report, it states:

“To maximize transparency, the Governing Entity shall be subject to administrative procedure pursuant to chapter 91, Hawaii Revised Statutes; Sunshine Law, pursuant to chapter 92, Hawaii Revised Statutes; the State Procurement Code, pursuant to chapter 103D, Hawaii Revised Statutes; and chapters 183, 205, 205A, and 343, Hawaii Revised Statutes.”

The Report suggests that these lands should be subject to HRS chapter 183, Forest Reserves, Water Development, Zoning. Lands designated FR will be subject to the rules and program under DLNR’s Division of Forestry and Wildlife (“DOFAW”). FR rules are far more restrictive generally than conservation district rules (e.g., it is unlikely that astronomy facilities would be allowed in the FR).

Building capacity to operate under HRS chapter 91, the Hawai‘i Administrative Procedures Act (“HAPA”), takes time, staff, and resources. HAPA covers rule making, contested cases, and declaratory orders. The Report does not provide
detail on these resource-intensive requirements. These regulatory frameworks are needed, if as the Report suggests, the new entity will have more enforcement authority than the University currently has. The Report states on pages 26-27:

“[T]he Governing Entity shall work with the Department of Land and Natural Resources’ Division of Conservation and Resources Enforcement and Hawai’i County Police enforcement structure to enforce rules and monitor public safety through cooperative agreement. Additionally, the Governing Entity shall create operational procedures that are guided by the Kumu Kānāwai and implemented by enforcement partners.”

The Report is unclear on how new rules and procedures it adopts would integrate with existing rules governing activities on DLNR, DHHL, private, and other government lands included in the new land area defined in the Report. It is also unclear what the statement “...guided by the Kumu Kānāwai and implemented by enforcement partners” means to people who would visit Maunakea, such as Hawai‘i Island residents, including native Hawaiians.

The University already has administrative processes and procedures in place. It already works under the sunshine law, procurement, HRS chapter 343, and other agency regulations related to land use. These processes have been scrutinized and tested by internal audits, state audits, DLNR oversight, and Hawai‘i courts. How these matters are proposed to be handled directly impacts the viability and resource needs of the new entity.

C. The adequacy of stakeholder representation on the board of the new Governing Entity.

The Report recommends the establishment of a new attached state agency governed by a board of directors: On page 22, the Report states:

“The Governing Entity shall be attached to the Office of the Chairperson of the Board of Land and Natural Resources for administrative purposes. Decision-making for the Governing Entity shall be made by a nine-member board, of which seven seats shall be appointed and two seats shall be held by ex-officio members, with the board selecting a Chair from among its non-ex-officio members; provided that the Chair shall not be the Executive Director of the Governing Entity. Additionally, of the nine members, four of the seven non-ex-officio board members shall be Native Hawaiian Hawaii Island residents, with a preference for Native Hawaiian Hawaii Island residents for all seven non-ex-officio board seats.”

While the University agrees that broad representation on the governing board of a state land management entity is needed to ensure the range of perspectives Maunakea deserves, key expertise is lacking from the proposed structure, including seats for observatory and University representatives.

The MKWG’s lack of consensus for having astronomy representation and for eliminating University representation on the governing entity board is problematic. The Report argues that this would create a potential conflict of interest. First, it is not uncommon to have tenant and stakeholder representation on governing boards of attached state agencies. For example, the Natural Energy Laboratory of Hawai‘i (“NELHA”) maintains
two seats on its board of directors for tenants who hold direct leases from the agency. Second, every board, public and private, deals with conflicts of interest through reporting and recusal procedures, so this alone is not sufficient reason to omit these important perspectives especially if they are a primary source of funding stewardship activities.

By contrast, the University’s management framework includes community advisory groups, such as Mauna Kea Management Board ("MKMB") and Kahu Kū Mauna ("KKM") who have early and direct input into the decision-making process. Additional committees that advise the MKMB, like the Environment Committee ("EC"), provide additional, specific expertise. All of these advisory groups include Hawai’i Island members who are directly impacted by decisions on Maunakea.

D. Working through the aforementioned complexities of realigning, much less simply coordinating, management of public lands that are currently under the jurisdiction of different agencies, subject to different administrative rules, appear to have been underestimated, like the time for of start-up and amounts of funding.

The details of the University’s concerns here were outlined in section B(iii) above. The processes for working through the challenges of multiple jurisdictions are already in place so further analysis should be performed to discern the cost of duplication or replication of these processes, as compared with any purported benefit.

Each of these issues is itself complex, and any one of them is a potential show stopper given the contentious nature and resources required of them. Attaching the success of a newly established entity to highly speculative outcomes requires considerable more analysis before even attempting to draft legislation.

5. The University’s commitment and ability to successfully to steward Maunakea has been demonstrated

While not explicitly stated in the Report, the rationale for the formation of the MKWG, and the need to establish a new governing entity, appears to be based on the assumption that a new entity could manage Maunakea better than the University. This assumption seems to be based on a snapshot of reports that evaluated the University’s management over the years as well a lack of recognition of the University’s own efforts and response to the University’s critics.

A. State audits of the University’s management of Maunakea show improvement over time

The Report on page 3 cites a series of State Audits that began in 1998 and concludes with the statement that “Subsequent reports, which still identified shortcomings, were filed by the State Legislative Auditor’s office in 2005, 2014, 2017, and 2019.” The University has acknowledged and apologized for its stewardship of Maunakea in the last century, but subsequent state audits of the University’s management of Maunakea have documented our commitment and improvement over time.

In its Report on the Implementation of State Auditor’s Recommendations 2014 – 2017, the State Auditor noted that of the several audit recommendations from 1998, only four (4) were outstanding as of its November 2019 report. One item, directly under the control of the University, was completed with the University Board of Regents’ ("BOR") adoption of Hawai’i Administrative Rules ("HAR") chapter 20-26 on November 6, 2019 (approved by the governor on January 13, 2020).
The University is actively working on the remaining three (3) items in coordination with DLNR, which has final approval on these particular tasks. These three (3) items are:

i. “The University of Hawai‘i should renegotiate with existing sublessees to amend subleases to include provisions that address stewardship issues, as modeled by the provisions in the 2014 TMT sublease, following execution of the new general leases for UH-managed lands on Mauna Kea”;

ii. “The Department of Land and Natural Resources should continue working with UH to renew the general leases for the UH-managed lands on Mauna Kea and ensure the leases are substantially in the form DLNR’s Land Division recommended for approval by the land board”;

iii. “The Department of Land and Natural Resources should use additional stewardship-related conditions contained within the TMT observatory permit as a template in all new observatory permits issued for the summit of Mauna Kea.”

The timeline on the first two of these audit items is affected by challenges brought by the Office of Hawaiian Affairs (“OHA”) and other groups who oppose TMT in several ongoing administrative and judicial appeals. If the Board of Land and Natural Resources (“BLNR”) grants the University another general lease, then BLNR must approve the first two items, which the University intends to comply with. The third audit item regarding whether BLNR grants a new astronomy facility conditional use permits is not within the University’s control.

These audit findings show the significant progress the University has made over time in fulfilling its management responsibilities. Reliance on those past audits as a measure of the University’s recent or current performance is no longer valid, and the past audits do not support taking the management away from the University. Instead, those audit reports confirm that the University has learned from its decades-long management and improved based on that experience.

B. The Independent Evaluation of University’s implementation of the CMP was positive in most all areas, and the University has made changes to improve the few areas marked for improvement

The University is charged with implementing 103 management actions in the Mauna Kea Comprehensive Management Plan, adopted by BLNR in 2009 (“CMP”). The University’s implementation of the CMP was the subject of an independent review conducted by Kuiwalu in December 2020 at the direction of DLNR (“Independent Evaluation”).

The Report picked up on some aspects of the Independent Evaluation; however, it is important to consider the actual text of the Independent Evaluation. As stated in the Independent Evaluation:

“The purpose of this Independent Evaluation Report (Report) is to (1) evaluate the effectiveness of UH, specifically OMKM’s, implementation of the specific Management Component Plans (MCP) found in Section 7 of the CMP, and (2) to evaluate the efficiency of the governance structure in managing the cultural and natural resources within state conservation lands under lease to UH.”
The Independent Evaluation offers the following conclusions:

i. “UH’s self-assessment and many of the public comments which included members of the Native Hawaiian community and government agencies, have acknowledged that OMKM has implemented most of the 103 MAs within the MCPs. Many have commented that OMKM has effectively implemented many of the MAs that have resulted in protecting and preserving the cultural and natural resources within the state conservation lands.”

ii. “[I]n the areas of untimely adoption of the administrative rules, cultural resources, and education and community outreach, especially with the Native Hawaiian stakeholders, the efforts by OMKM have been ineffective to achieve the desired outcome.”

It is important to note regarding the above conclusions that:

i. At the time of the Independent Evaluation, HAR chapter 20-26 was adopted by BOR and approved by the governor. The University is currently implementing the rules. Before BOR adopted the rules (which it was granted authority to adopt in 2009 under Act 132), the University was continuously implementing the 103 CMP management actions, administering commercial tour operator permits, and coordinating on enforcement related to resources and public health and safety with entities like DLNR and its various programs and county first responders.

ii. Outreach to the Hawai‘i Island community, including native Hawaiians, has been a mainstay of University management on Maunakea, and it is built into its management framework. This includes outreach through advisory groups like KKM and the MKMB as well as local schools, community groups, businesses, native Hawaiian faculty, lineal descendants, and those who identify as kia‘i. The recent adoption of HAR chapter 20-26 and the on-going work finalizing the new master plan include significant efforts by the University to capture community input, resulting in thousands of comments and dozens of meetings with interested groups. All substantive comments were considered, which the University has documented in its rulemaking process and the new master plan Volume II.

iii. There has always been an education component for the public and community outreach conducted by the University and directly by the Maunakea observatories. The University’s recent reorganization furthers this work by designating the ‘Imiloa Astronomy Center for orientation programs and educational partnerships by BOR resolution and executive policy.

The Independent Evaluation did not conclude that UH has “mismanaged” Maunakea, a term often used against the University. Here is how the Independent Evaluation discusses “mismanagement”, only once and quoted in full:

“The public’s assessment of how effectively UH has implemented the CMP has primarily varied depending on whether they are in favor or opposition of

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2 For example the State Historic Preservation Division, Division of Conservation and Resources Enforcement, Division of Forestry and Wildlife, Office of Conservation and Coastal Lands, etc.

3 Comprised of individuals knowledgeable about native Hawaiian cultural practices who advise the MKMB.

4 Composed of members representing the major stakeholders of Maunakea; primary role is to advise the Office of the Chancellor at the University of Hawai‘i at Hilo on management of the Mauna Kea Science Reserve.
telescope development on Mauna Kea. Those who support existing and future telescope development on Mauna Kea believe that OMKM has adequately implemented the CMP MAs to preserve and protect the cultural and natural resources on Mauna Kea. **For those who do not support continued telescope development on Mauna Kea beyond 2033, the expiration of the existing state lease, they believe that UH continues to mismanage Mauna Kea as concluded in the 1998 State Auditor’s Report. In particular, those in opposition believe that UH continues to advocate telescope development over the protection and preservation of the resources.**

With respect to the broader public comments on the effectiveness of the UH governance structure, most see UH as one entity. They either believe that the UH existing structure is doing a good job, or they believe that UH is mismanaging Mauna Kea and there is very little in between.”

(Emphasis added.)

It should be noted that the University’s newly issued draft Master Plan establishes a limit of nine telescopes post 2033. It also restricts future development to existing observatory sites. The University committed to these limits despite considerable differences with astronomy advocates.

C. The University and its advisory groups take constructive criticism seriously.

At the direction of the BOR, in April 2020, the University completed an analysis of alternative governance models that included models in which the University did not serve as primary manager. The analysis evaluated the benefits and challenges of establishing the various forms of new entities identified (see BOR Presentation [4.16.20]). In the University’s analysis of governance models, the University concluded that three (3) years is not sufficient time to transfer legal rights under existing agreements, staff, resources, programs, plans, policies, and other elements of the University management program and apparatus to a new, yet-to-be-formed entity. Given the need for bicameral legislative support and based on past legislative efforts, the University determined it would take several years for the enabling legislation to be passed to form the new entity. This short timeline also does not account for the approvals required for a new master plan, management plan, permits, administrative rules, general lease, and observatory subleases, and for developing a viable business plan that ensures the new entity’s sustainability.

As a result, the University has focused its attention on the governance alternative within its control and broadened community representation within its existing advisory groups. In 2021, the EC increased its membership, bringing different expertise and perspectives to its committee. KKM updated its purpose statement and is actively recruiting new members to reflect their renewed vision. The voices on the EC and KKM are diverse and include members who share some of the views of Hawai‘i Island kia‘i.

At their December 7, 2021 public meeting, the MKMB passed a motion recommending that the University administration restructure MKMB along the lines of what was identified as Model 4A, Collaborative Management with UH, in the University’s analysis of governance models. Model 4A expands the current MKMB from seven to nine members; designates ex-officio seats on the MKMB for DLNR, DHHL, OHA, and the
County of Hawai‘i; and redistributes representation of the remaining seats to include various stakeholder interests.

In many ways, the MKWG’s recommended structure parallels what the University is in the process of implementing except that the University and astronomy are represented.

D. Tangible demonstration of the University’s commitment to stewardship

Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

The fruits of the University’s efforts to improve its stewardship have been recognized by the community. In 2017 UH received the Pualu Award from the Kona-Kohala Chamber of Commerce for its education and outreach. In 2017 UH received a Preservation Commendation Award from the Historic Hawai‘i Foundation for its interpretative efforts. And in 2016 UH received the Pualu Award for Environmental Awareness from the Kona-Kohala Chamber of Commerce. Finally, and perhaps most notably, in 2011 the Wekiu Bug was removed from endangered species candidate list because of the University’s ecosystem restoration efforts.

In closing, the University should be judged by our complete record which shows substantial improvement over time across multiple dimensions. Our commitment has been reliably demonstrated in time, effort, and resources committed by us over the years in the exercise of our stewardship responsibilities for the privilege of access we have. And as a result, as reported by many in the Independent Evaluation “…the cultural and natural resources on the state conservation lands on Mauna Kea are some of the best managed and protected lands in the entire State” and we have a world class research enterprise Hawai‘i can be proud of.
16 WRITTEN TESTIMONY RECEIVED IN ADVANCE OF JANUARY 20, 2021, BOARD OF REGENTS MEETING
ATTACHMENT B:
Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices), Volume 1 (Redlined Pages Only)

Note: This Attachment B is a collection of redlined pages showing changes made to Volume 1 of the Master Plan that was submitted to the Board of Regents (“Board”) with the “Report of the Maunakea Plan Review Permitted Interaction Group.” Changes are based on comments received from the Board’s Special Meeting on December 16, 2021.

MASTER PLAN FOR THE UNIVERSITY OF HAWAIʻI MAUNAKEA LANDS
E Ō I NĀ LEO (LISTEN TO THE VOICES)*
VOLUME 1

* The name of this plan, E Ō I Nā Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

ADOPTED BY THE UNIVERSITY OF HAWAIʻI BOARD OF REGENTS ON DATE

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

JANUARY 11, 2022
VOLUME 2

LETTER SENT VIA U.S. MAIL ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

LIST OF U.S. MAIL LETTER RECIPIENTS

EMAIL SENT ANNOUNCEING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

LIST OF EMAIL RECIPIENTS

PRESS RELEASES AND MEDIA PICKUPS

TARGETED OUTREACH LIST FOR INPUT ON THE PUBLIC DRAFT MASTER PLAN

KONVEIO WEBSITE GOOGLE ANALYTICS REPORT

INPUT RECEIVED VIA KONVEIO WEBSITE COMMENTING TOOL REPORT

INPUT RECEIVED VIA KONVEIO COMMENT FORM REPORT

INPUT RECEIVED VIA U.S. MAIL

INPUT RECEIVED VIA EMAIL

SUMMARY OF COMMENTS RECEIVED VIA TOLL-FREE HOTLINE

INPUT RECEIVED VIA EMAIL FROM 123FORMBUILDER.COM

WRITTEN TESTIMONY RECEIVED IN ADVANCE OF DECEMBER 16, 2021, BOARD OF REGENTS MEETING

UH RESPONSE TO MAUNA KEA WORKING GROUP’S HE LÄ HOU KĒAI MA MAUNA A WĒKEA: A NEW DAY ON MAUNA A WĀKEA

WRITTEN TESTIMONY RECEIVED IN ADVANCE OF JANUARY 20, 2021, BOARD OF REGENTS MEETING
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<thead>
<tr>
<th>Acronym</th>
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<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
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<td>MKO</td>
<td>Maunakea Observatories</td>
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<td>Maunakea Observatories Support Services</td>
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<td>MOA</td>
<td>Memorandum of Agreement</td>
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<td>Maunakea Spectroscopic Explorer</td>
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<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
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<td>NAR</td>
<td>Natural Area Reserves (DLNR)</td>
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<td>NET</td>
<td>New Educational Telescope</td>
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<td>NOI</td>
<td>Notice of Intent</td>
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<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
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<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
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<td>Office of Maunakea Management</td>
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<td>Radio Frequency Interference</td>
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<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
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<td>Thirty Meter Telescope</td>
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<td>Very Long Baseline Array</td>
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<td>Vice President for Administration</td>
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obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.

- **Kuleana** (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. The summit region is wahi pana and, to many, wao akua where traditional Native Hawaiian cultural practices are exercised. It is where species have evolved to adapt to the unusual conditions existent on the mauna and where geography and climate come together to create unmatched astronomical viewing conditions. It is also where residents and visitors come to recreate. UH respects cultural practice and honors its privilege, commitment, and responsibility to support access to and use of resources that is balanced across the many values ascribed to Maunakea.

- **‘Ike Hawai‘i; Nohona Hawai‘i** (traditional knowledge; traditional practices). Our stewardship and educational programming will integrate traditional knowledge and practice to strengthen our care for Maunakea’s resources and people’s understanding and connection to place.

- **Mau loa** (a long view). UH will responsibly steward the physical, scientific, and biological resources present on Maunakea so that their vital ecosystem functions continue for future generations.

- **Laulima** (cooperation). As a public institution, UH is committed to broadening participation of Native Hawaiians and the larger community in its planning and programs for Maunakea. We encourage all people to come together in shared responsibility to collaboratively protect and learn from this special place.

- **Kūpono** (trustworthiness). Stewardship of the mauna and ensuring that Maunakea’s unique resources remain available for the continued advancement of science, education, and astronomy requires organizational and economic stability. UH will seek to maintain a level of trust and decision-making certainty that allows the continuation of responsible stewardship in partnership with the community.

These core values were developed with consideration for the values of other UH programs and units that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH activities on Maunakea. These include the values expressed in various UH System, UH Hilo, and ‘Imiloa plan documents (Appendix C).

### 1.4 GOALS AND OBJECTIVES

The goals and objectives described below are concise statements of what needs to be achieved to fulfill the vision expressed in Section 1.2, accomplish the mission and purpose expressed in Section 1.1, and promote the core values in Section 1.3. Importantly, no goal has precedence over the others; they are equally important. Nor should they be thought as being exclusive of each other; in fact, UH views each as a strand that needs to be woven together to fulfill our vision.

#### 1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS

Referred to as the “Stewardship Goal,” it commits UH to stewarding Maunakea by implementing the CMP in coordination with the community to further a collective understanding of, respect for,
elected leaders of the State and County for more than 50 years, and that continues to be a part of Hawai‘i’s economic future.9

1.4.3 DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES

Referred to as the “Education Goal,” it entails UH working to diversify its educational pursuits and to expand research opportunities on Maunakea beyond astronomy for UH, for partner institutions and groups, and for the broader community. In addition to being an exceptional site for astronomy, Maunakea’s landscape, resources, and infrastructure provide opportunities for researchers in a myriad of physical and social sciences, including indigenous knowledge. UH will actively encourage and invite researchers and students to use its facilities at Halepōhaku in support of their research and teaching so that they may learn from the natural, cultural, and social environment within and surrounding the UH Maunakea Lands.

Specific objectives under the Education Goal are to:

- Maintain the physical and administrative environment necessary to grow research and learning in diverse fields on Maunakea.
- Foster collaborations between leaders and researchers from diverse fields, cultures, institutions, and the community to enrich and extend the knowledge gained from work on Maunakea though multidisciplinary research and cross-cultural discourse.
- Facilitate the foregoing by repurposing the Halepōhaku facilities as a Multidisciplinary Field Station to support a broader range of education and research.
- Impart an understanding of Maunakea to all who work and visit there of the historical, cultural, and environmental context of the mauna, so that they may see the mauna as a teacher and understand their role in contributing to the stewardship of this special place.

The Education Goal and associated objectives recognize that the UH System is the state’s primary higher education provider and that creating greater opportunities for educational and research programs on Maunakea can benefit and unite the System’s three universities, seven community colleges, and community-based learning centers across the state. Further, these Maunakea-specific objectives support UH’s overall efforts to expand its support of the science- and knowledge-based economy that is sought by Hawai‘i’s elected leaders.9

While UH will continue its strong support for and involvement in astronomy on Maunakea, it will simultaneously strengthen its support of research and educational programs in indigenous, natural, and social sciences. UH also recognizes that kanaka maoli’s (Native Hawaiian) timeless knowledge regarding Maunakea, reflected in their observations shared in mo‘olelo (narrative story) and mele (song or chant), are no less significant than other knowledge, and these will be

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9 In 1964 the Hawai‘i State Legislature passed Senate Concurrent Resolution 16 (SCR 16) stating that the “State of Hawai‘i and its citizenry are most desirous and willing to co-operate and aid in the promotion of our nation’s space program and research to the benefit of the County of Hawai‘i, the state and the nation.”

The Hawai‘i 2050 Sustainability Plan (2021) and Hawai‘i Statewide Comprehensive Economic Development Strategy (2016), which draw on HRS § 226-10, 226-103, and 226-108, emphasize that it is the State’s policy to promote economic diversification and innovation to retain a workforce educated in science, technology, engineering, and mathematics (STEM).
3. Strive to build community confidence and trust so that UH may be provided the opportunity to continue and improve its management, stewardship, and research beyond 2033.

4. Allow the establishment of only those new facilities that address the Phase 1 screening and assessment criteria (Section 6.2), including (i) support consistency with the mission, vision, goals, and objectives of this Master Plan; (ii) are consistent consistency with the CMP; (iii) would adequately benefit from and/or increase our understanding of Maunakea’s unique cultural conditions, landscape—or—unique natural and resources; (iv) are consistent consistency with applicable rules regulations, and permits; and (v) avoid, minimize, or mitigate adverse effects on existing facilities and practices to Maunakea’s resources.

5. Continue to sustainably steward Maunakea through the implementation of the CMP and this Master Plan, including ecosystem and habitat restoration efforts.

6. Manage access to the UH Maunakea Lands in a phased and adaptive manner that (i) protects and conserves the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manages activities to minimize potential adverse effects on the landscape and resources; (iii) protects public health and safety; and (iv) preserves the feeling of wilderness and sanctity in the summit region.

7. Work with the Native Hawaiian community to identify measures, policies, and facilities that will further reduce adverse effects to the cultural landscape and cultural practices and perpetuate 'ike Hawai‘i (traditional knowledge) and nohona Hawai‘i (traditional practices).

8. Decommission a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033, and does not exceed that number throughout the remainder of the time covered by this Master Plan.

9. Execute agreements between UH and the entities that operate Maunakea astronomy facilities so that the parties to those agreements collectively provide their fair share of financial support and other resources needed to (i) provide public benefits for the community and state, with a focus on the Native Hawaiian community; (ii) implement the CMP and this Master Plan; (iii) provide education regarding Maunakea’s cultural landscape and natural resources; (iv) support the UH astronomy programs; and (v) maintain necessary infrastructure.

10. Facilitate over the 20-year period of this Master Plan: (i) the development of an astronomical facility on Astronomy Site 13, and (ii) the modification or recycling of up to three (3) existing astronomy facilities in the MKSR.

Strategy 10 recognizes that there is some uncertainty regarding the Thirty Meter Telescope (TMT) project, which is permitted for Astronomy Site 13. Mauna Kea Access Road was blocked from July 16 through December 26, 2019, and construction of the TMT project was paused indefinitely. The U.S. National Science Foundation (NSF) is now considering funding that project; their funding would trigger federal review of the project prior to construction restarting. Should the TMT project not proceed on Maunakea, this Master Plan will continue to guide UH decisions on Maunakea including the future of Astronomy Site 13.
Reserve, and any other lands on Mauna Kea that the University of Hawaii leases or over which the University of Hawaii acquires control or jurisdiction.

The UH Maunakea Lands presently consist of two parcels that UH leases and the portion of a third parcel over which UH holds an easement (Figure 2-1):

- Parcel TMK 4-4-015:009 via General Lease S-4191, which expires December 31, 2033. This parcel is 11,287.854-acre and is called the Mauna Kea Science Reserve (MKSR).
- Parcel TMK 4-4-015:012 via General Lease S-5529, which expires in 2041. This 19.261-acre parcel is known as Halepōhaku.
- Portion of parcel TMK 4-4-015:012, which is part of the Mauna Kea Forest Reserve, under a non-exclusive roadway easement. This easement, which encompasses 70.798 acres, contains the roadway between the two leased parcels listed above.

Over the life of this Master Plan the specific area that falls within UH Maunakea Lands may change. This Master Plan is only binding on those UH Maunakea Lands that remain under the authority of UH. For example, if UH Maunakea Lands were reduced, this Master Plan would govern only those lands still authorized for use by UH, without the need to amend this Master Plan.

The UH Maunakea Lands are all considered “ceded” lands. Ceded lands are those crown, public, and government lands that were once held by the Kingdom of Hawai‘i. The Republic of Hawai‘i took control of these lands after the overthrow of the Hawaiian monarchy. The United States annexed Hawai‘i in 1898 and the Republic of Hawai‘i ceded 1.8 million acres of public lands to the Federal government. In March 2009, the United States Supreme Court noted that when Hawai‘i joined the Union in 1959 as the 50th state, the Federal government granted title to the ceded lands to the State.

These lands, together with the proceeds from the sale or other disposition and income there from, are held by the State as a public trust.

The State holds the ceded lands in a public trust for (i) the support of the public schools and other public educational institutions, (ii) the betterment of the conditions of Native Hawaiians, as defined in the Hawaiian Homes Commission Act, (iii) the development of farm and home ownership on as widespread a basis as possible, (iv) for the making of public improvements, and (v) the provision of lands for public use (The Admission Act Section 5(f)).
2.3 MASTER PLAN IMPLEMENTATION

This Master Plan will be implemented through the governance structure approved via a motion by the BOR. The BOR delegated responsibility for the governance and management of UH Maunakea Lands to UH Hilo, which is advised by the Mauna Kea Management Board (MKMB) and Kahu Kū Mauna Council (KKM),¹² UH Hilo has, in turn, created the Center for Maunakea Stewardship (CMS) to administer the lands. This governance structure is established through policies adopted by the BOR and is outside the scope of this Master Plan. The governance structure at the time this plan was adopted is illustrated in Figure 2-2. The structure may be modified from time to time over the life of this Master Plan without requiring this plan to be amended.

Figure 2-2: CMS Governance Structure, Established in 2020

Notes: * Shown here for descriptive purposes. Organization of these functions to be finalized by Director of Stewardship Programs.

The structure may be modified from time to time over the life of this Master Plan without triggering a need to amend this plan.

Source: CMS

¹² Under the 2000 Master Plan, MKMB was "encouraged to establish special committees on culture, environment and education, as needed, to assist it in its functioning." A long active, and currently active, special committee is the Environment Committee, which provides expertise to MKMB on environmental issues.
UH’s General Lease No. S-4191 for the Mauna Kea Science Reserve expires on December 31, 2033; UH is seeking a new land authorization, but there is no guarantee that it will be renewed prior to the expiration of the General Lease. If UH does not obtain a land authorization that allows for its continued management and use of the UH Maunakea Lands, whatever beyond 2033, then under the General Lease UH must surrender and deliver possession of the land to BLNR and any improvements on the lands must be removed or disposed of by UH or, with the approval of the BLNR chair, improvements may be abandoned in place. Once the lands under the General Lease are surrendered, among other possibilities, BLNR and the Governor may consider issuance of a new entitlement (whether by lease, executive order, or other authorization) to UH or another entity assumes control may adopt a different plan with different priorities and goals. The Mauna Kea Working Group, created by House Resolution No. 33, H.D. 1 in 2021, issued a report during the development of this Master Plan entitled, He Lā Hou Kēai Ma Mauna a Wēkea: A New Day on Mauna a Wākea. The report discusses the creation of a new entity. UH’s response to the Working Group’s report is included in Volume 2. However, unless and until such a change occurs, the provisions of this Master Plan will guide land use decisions on Maunakea.

2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS

The only active plans relevant to UH decision-making regarding its Maunakea Lands are: (i) this Master Plan, which is approved and adopted by the BOR; and (ii) the CMP, which is approved and adopted by the BOR and the BLNR. This Master Plan supersedes all previous Master Plans.

This Master Plan does not replace the CMP, which may be amended from time to time. On the contrary, it and the CMP are consistent with and complement one another and are intended to be implemented together. All the uses and facilities that are envisioned in this Master Plan can be designed and implemented so that they are fully consistent with the management actions described in the CMP.

This Master Plan addresses the planning, siting, and design of new facilities and significant material changes to existing facilities. The CMP addresses management of activities and resources. Examples of the differences between the elements addressed in the two plans are shown in Table 2-1. Specific information concerning recreational, commercial, and astronomy activities are presented in subsections 2.4.1 through 2.4.3.

Table 2-1: Examples of Distinction between Master Plan and CMP Content

<table>
<thead>
<tr>
<th>Master Plan</th>
<th>CMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>New uses/facilities within the UH Maunakea Lands</td>
<td>Management actions</td>
</tr>
<tr>
<td>Exterior modification of astronomy facilities</td>
<td>Natural resource management</td>
</tr>
<tr>
<td>Recycling of astronomy sites</td>
<td>Cultural resource management</td>
</tr>
<tr>
<td>Roadway improvement/ modification</td>
<td>Recreational activity management</td>
</tr>
<tr>
<td>Facility design standards</td>
<td>Access management procedures</td>
</tr>
<tr>
<td>Project review process</td>
<td>Commercial tour management</td>
</tr>
<tr>
<td></td>
<td>Decommissioning and site restoration process</td>
</tr>
</tbody>
</table>

2.4.1 RECREATIONAL ACTIVITIES IN THE PLANS

Management of recreational activities is addressed in the CMP and in Hawai‘i Administrative Rules (HAR) Chapter 20-26, Public and Commercial Activities on Mauna Kea Lands (the UH
Any development at Halepōhaku on previously undisturbed land that results in the removal of māmane trees could cause an adverse impact to the Palila’s designated critical habitat and thus would be minimized and mitigated. CMS has an ongoing program to propagate and outplant māmane trees within Halepōhaku and takes additional actions to improve the habitat for Palila and other native species, but it is too early to evaluate how successful that program will be. DLNR, which is leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.

3.1.2.2 Cost Considerations

Because of its elevation and isolation, it is costly to build and operate facilities at Halepōhaku. Factors that contribute to high costs include: (i) all water and other supplies must be trucked up the mountain; (ii) there is no central wastewater treatment system; and (iii) all maintenance and food service must be accommodated by UH-provided facilities and personnel. The high construction and operational costs make the development of non-mission critical facilities at Halepōhaku unattractive.

3.1.3 UH Commitments Regarding Use of Halepōhaku

In view of the limitations outlined above, UH will adhere to the following precepts in making decisions related to facilities, developments, and disturbances at Halepōhaku:

- Existing structures will be repurposed and utilization of existing space maximized before new facilities are proposed.
- If additional facilities are proposed, they will be sited in previously disturbed areas devoid of native vegetation to the maximum extent practicable.
- The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope New Educational Telescope (NET) (Section 3.3). The only other telescopes that will regularly be present at Halepōhaku will be small portable stargazing telescopes that are set up and then removed and stored after use.
- UH will manage vehicular access in a way that forestalls the need to expand parking within Halepōhaku beyond the locations where it presently exists.
- UH will continue its habitat restoration efforts within Halepōhaku and utilize Halepōhaku to assist and/or support conservation efforts by others on the upper slopes of Maunakea to contribute to the State’s pledge to conserve, restore, or grow 100 million trees (DLNR, September 25, 2021).

3.2 MKSS Baseyard

As illustrated in Figure 3-1, the uppermost part of Halepōhaku contains the MKSS baseyard, which contains structures, equipment, and storage areas utilized for logistical services and support. These are used to maintain the Mauna Kea Access Road above Halepōhaku and in support of operations of other Halepōhaku facilities. The MKSS baseyard provides sufficient space to accommodate MKSS’ current and forecast needs.
Because the size and location of the existing baseyard facilities are deemed by MKSS to be adequate for the foreseeable future, no fundamental changes to it are likely to be proposed during the life of this Master Plan. However, refurbishment, updating, and modest enhancements that would improve the function and/or extend the operating life of some of the existing facilities were identified during the master planning process and may be undertaken over the term of this Master Plan. Examples include:

- Upgrading fuel storage by July 15, 2028, to comply with new regulations requiring double-walled tanks.
- Paving portions of the baseyard that now have only a gravel base-course cover to improve efficiency and safety while also reducing the potential for the establishment of invasive species.
- Improving portions of the baseyard area, currently in limited use, for the storage of material and equipment associated with resource maintenance and management on Maunakea and making minor improvements (e.g., vegetation clearance or rough grading) needed to allow that.

### 3.3 UH HILO NEW EDUCATIONAL TELESCOPE

#### 3.3.1 BACKGROUND

The Department of Physics and Astronomy at UH Hilo offers two programs, the Bachelor of Science degree in Astronomy and Bachelor of Arts degree in Physics. Both degrees have their own mission statements, which are closely aligned with the mission of UH Hilo at large. The UH Hilo astronomy program aims to: (i) develop the science knowledge and analytic skills of students, whether they be majors or not, through a focus on the field of astronomy and (ii) instill an appreciation of science, particularly astronomy, in students. The programs provide students with transferable skills so they can excel in a wide range of STEM-related fields. UH Hilo presently offers astronomy courses every semester that are designed to build expertise in data acquisition and analysis and to provide hands-on experience handling the necessary hardware and software. Skills acquired through both programs position graduates for operations-related employment at the Maunakea Observatories (MKOs), employment in other STEM-related fields, or, for those who are committed to making a career of advanced research in the field of astronomy, graduate-level education in astronomy. Five of the courses have laboratory components that would use a telescope if it were available, and even more might be initiated if the telescope is available at Halepōhaku; educational material (e.g. celestial object pictures or spectra) produced during these laboratories could also be used during lecture-based courses. At one time, facilities at Astronomy Site 9 (Hōkū Kea) were used for this purpose, but those became unusable in 2006. UH Hilo has since acquired a state-of-the-art PlaneWave Instruments CDK700 (PIC700) telescope system, a suite of instruments, and an AstroHaven “clamshell” 18-foot dome for the laboratories. With an aperture of 0.7 meter (28 inches) and a focal ratio of F/6.5 (Figure 3-3), the PIC700 is currently stored in a room on the UH Hilo campus. While it can be/is being used to train students on the purely mechanical aspects of telescope operations, at its current location it cannot be used to train students in real observing sessions.
3.3.2 **NEW EDUCATIONAL TELESCOPE AT HALEPŌHAKU**

Both programs described above have identified a need for access to a working modern, small-aperture telescope on Maunakea as an important component of their desired educational programs. After an extensive search for a suitable site for the educational telescope (NET) (about 16 different locations were considered), UH Hilo identified an area at Halepōhaku as an excellent location for such an instrument. Skills acquired through the operation of such an educational telescope, along with visits to astronomy facilities in the MKSR, would better position the students for employment at the MKOs and elsewhere in the world astronomical research community. In addition, faculty and students at both UH Hilo and UH Mānoa would use it for laboratory courses and research projects. An educational telescope at Halepōhaku could also be employed for outreach events and for programs involving the Big Island community that would help UH build a stronger bond between astronomy on Maunakea and the community. It is expected that telescope time will be made available to students and the community interested in astronomy or for educational purposes.

The UH BOR Resolution 19-03 dated November 6, 2019 (Appendix D), directed that Astronomy Site 9 (Hōkū Kea Kea) be decommissioned and that “…a new educational telescope facility for the University of Hawai‘i at Hilo shall be established at Halepōhaku or elsewhere.” UH’s present intent is to site the educational telescope within Halepōhaku, and it has commissioned a planning and design team for the proposed educational telescopeNET project that will lead the project.
review process, prepare an HRS Chapter 343 environmental document, and prepare a Conservation District Use Application (CDUA) for the facility that UH will submit to DLNR.

More specifically, UH Hilo has identified one primary and one backup location at Halepōhaku to date. The primary location is adjacent to the smallest of the four dormitories (Dormitory A) in the upper portion of Halepōhaku (Figure 3-4). This site offers limited light pollution, good sky visibility, and is near power and communication infrastructure. The site has been tested using a smaller, portable telescope and was found to be suitable. An already identified backup location is land adjacent to one of the four Subaru-built construction cabins in the lower portion of Halepōhaku. This site is also believed to be suitable, but less so due to light pollution from passing vehicles on the main road. The proposed structure is comparatively much smaller than the astronomy facilities on the MKSR, with a profile that is no taller than existing Halepōhaku structures and taking up a small portion of a previously disturbed area. Additional and more refined alternatives may be identified as UH coordinates with the community as part of the planning and design team’s work.

**Figure 3-4: Conceptual Illustration of Educational TelescopeNET by Dormitory A**

UH Hilo has passed the following educational telescopeNET milestones:

- In February, 2020, it displayed the PlaneWave 0.7-meter telescope at the ʻImiloa Center. This was the first time that it was displayed to the public, and hundreds of persons stopped by, including many young people who experienced moving the telescope using the control interface.

- In mid-2020, a project was formally initiated by UH Hilo for the educational telescopeNET.

- In September, 2020, UH Hilo initiated a community outreach campaign regarding the possible installation of the new educational telescopeNET. The effort included a virtual
The extent and specifics of the diversified educational programs are yet to be fully defined, but to achieve its goals and optimize the usage of facilities that it continues to operate and maintain, UH anticipates the need to reconfigure, modify, repurpose, and/or remove certain facilities at Halepōhaku. If the field station concept does not require all the underutilized existing facilities, UH would prefer that the unused facilities be removed and the environment restored rather than transfer them to the VIS to expand its offerings in a manner that would generate a greater number of visitors. Limited new facilities, such as the UH Hilo educational telescope NET, may also be developed. CMS and UH Hilo will continue to seek input from the community and consider alternatives for the Multidisciplinary Field Station. Examples of possible repurposing concepts include:

- Expanding access to the “common building” and dorms (Figure 3-1) to non-astronomy faculty, researchers, students, and other UH-affiliated or -sponsored programs for food service, meetings, and overnight stays. It is envisioned that students from high schools age and older could utilize the lodging facilities while participating in resource-based educational programs.
- Repurposing existing facilities to accommodate classrooms, offices, laboratory facilities, and other Multidisciplinary Field Station needs.
- Repurposing the stone cabins (Figure 3-1) and associated water tanks to create additional space for visitor information and education and Ranger functions as well as water sources for conservation projects.
- Repurposing the construction cabins (Figure 3-1) to create additional space for visitor information and education and Ranger functions.

To the extent that re-purposing proves impractical, removal of some of the buildings may be appropriate.

3.4.2 Specific Projects

In addition to the general repurposing concepts discussed above, several specific proposals for projects at Halepōhaku have already been identified. They include, but are not limited to, the following:

- Grading and paving the currently unpaved parking area immediately to the west of the Halepōhaku “common building.” This may involve structural components and drainage components that incorporate lessons learned from similar infrastructure improvements at the VIS that were completed in 2019.
- Conducting habitat rehabilitation or restoration projects as called for in the CMP.
- Producing and outplanting native species as called for in the CMP.
- Erecting educational, safety, and interpretive signs as called for in the CMP.
- Improving pedestrian connectivity between existing and future trails in the neighboring Forest Reserve that are sanctioned by DLNR, the “common building,” stone cabins, VIS, and/or construction cabins.
and natural resources. Stewardship, conservation, and non-astronomy education goals have not required the establishment of new facilities or developments to date; therefore, nearly all the vertical facilities\(^{21}\) in the MKSR in 2021 are related to astronomy. Table 4-1 and Figure 4-1 summarize the existing astronomy sites and facilities within the MKSR. Additional detail for selected sites is provided on a larger drawing provided in Appendix F.

“Astronomy Sites” are the specific locations, typically defined by sublease areas, where astronomy facilities have been or may be developed. The astronomy sites are numbered generally clockwise from Astronomy Site 1 (Subaru) to Astronomy Site 13 (TMT); Astronomy Site 14 (VLBA) is removed from the others on the southern slope of Maunakea (Figure 4-1). The astronomy site boundaries are based on the following:

- For astronomy sites that have, or had, subleases, the boundary is based on descriptions and depictions in the sublease and the CDUP for each astronomy facility.\(^{22}\)
- For astronomy sites that never had a sublease (the two astronomy facilities, Site 7 (UH 2.2m) and Site 9 (Hōkū Kea Kea), always owned by UH), the boundary was drawn based on the extent of the existing facilities, disturbed areas, their relationship/proximity to adjacent uses, and topography.

### Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve

<table>
<thead>
<tr>
<th>Astronomy Site #</th>
<th>Facility Name</th>
<th>CDUP Number &amp; Year Approved</th>
<th>Year of First Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subaru</td>
<td>HA-2462, approved in 1992</td>
<td>1999</td>
</tr>
<tr>
<td>2</td>
<td>Keck I</td>
<td>HA-1646, approved in 1984</td>
<td>1990</td>
</tr>
<tr>
<td>3</td>
<td>Keck II</td>
<td>HA-2509, approved in 1992</td>
<td>1996</td>
</tr>
<tr>
<td>4</td>
<td>IRTF</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>5</td>
<td>CFHT</td>
<td>HA-527, approved in 1974</td>
<td>1979</td>
</tr>
<tr>
<td>7</td>
<td>UH 2.2m</td>
<td>HA-954, approved in 1977 (post facto), (aka UH 88inch)</td>
<td>1970</td>
</tr>
<tr>
<td>8</td>
<td>UKIRT</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>10</td>
<td>CSO</td>
<td>HA-1492, approved in 1982</td>
<td>1986</td>
</tr>
<tr>
<td>11</td>
<td>JCMT</td>
<td>HA-1515, approved in 1983</td>
<td>1987</td>
</tr>
<tr>
<td>12</td>
<td>SMA</td>
<td>HA-2728, approved in 1994</td>
<td>2002</td>
</tr>
<tr>
<td>13</td>
<td>TMT</td>
<td>HA-3568, approved in 2017</td>
<td>NA</td>
</tr>
<tr>
<td>14</td>
<td>VLBA</td>
<td>HA-2174, approved in 1989</td>
<td>1992</td>
</tr>
</tbody>
</table>

Source: UH and DLNR

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\(^{21}\) Vertical facilities are those that rise substantially higher than the natural ground surface and include all buildings, but do not include roads and utilities.

\(^{22}\) The extents of Astronomy Sites 2 and 3 (Keck I and Keck II) are based on dividing the single Keck sublease area into two sites based on drawings included in CDUP applications for the two facilities (HA-1646 and HA-2509).

\(^{23}\) Astronomy facilities developed prior to 1971 were permitted post facto by CDUP HA-954. As outlined in DLNR’s staff report for that CDUP (DLNR, 1977), participants in the MKSR master lease (e.g., UH) likely did not seek additional approvals when the pre-1971 facilities were built because they assumed that the lease and purposes of the MKSR permitted the construction of observatories. The report states, “It is felt that the failure to obtain the approval of the Board for the use of State-owned conservation lands may well be based on assumption rather than outright omission.”
4.1.2 UH COMMITMENTS

UH’s vision and goals recognize that astronomy on Maunakea can only continue to the extent that (i) it is sensitive to and respectful of Maunakea’s cultural landscape and natural resources, and (ii) it contributes to the area’s stewardship, preservation, and utilization by others. Accordingly, UH has committed to reducing the number of operating astronomy facilities. Although a reduction in the number of astronomy facilities may adversely affect UH’s astronomy program and the MKOs in the short-term, UH believes it is likely to contribute substantially to the achievement of non-astronomy goals and objectives while also allowing the State and its residents to continue to reap the substantial scientific, cultural, and economic benefits that astronomy facilities in the MKSR provide.

This Master Plan reflects UH’s specific commitments, which include:

- By December 31, 2033, and throughout the remainder of the time covered by this plan, there will be not more than nine (9) operating astronomy facilities in the MKSR.24
- Five of the 14 astronomy sites that existed in 2020 will be ineligible for future astronomy facility use once the existing astronomy facilities on them have been decommissioned.25 They may be considered for non-astronomy uses consistent with this Master Plan’s framework.
- Astronomy Site 13 will be the last new site developed for an astronomy use in the MKSR. All future astronomy facilities will remain within the astronomy sites (Appendix F) that remain eligible for future astronomy facility use.
- No land uses will be considered on major undeveloped cinder cones (pu‘u) in the MKSR; this includes Pu‘uala, Pu‘uhoaka, Pu‘ulilīnoe, Pu‘umāhoe, Pu‘umākanaka, Pu‘upoepoe, and Pu‘uula.26

These commitments will support UH’s compliance with existing permits and governmental approvals. Which nine facilities continue to operate beyond 2033 in compliance with the first commitment will be established via the process outlined in Appendix E. Those not selected to continue will be decommissioned prior to the end of 2033.

Two astronomy facilities, Hōkū Kea Kea (Astronomy Site 9) and Caltech Submillimeter Observatory (Astronomy Site 10), have already self-selected cessation of operations and have made substantial progress toward decommissioning. In addition, the Very Long Baseline Array...

24 UH presently holds a General Lease from BLNR under which it grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world class facilities and research coordination. The General Lease expires at the end of 2033, before this Master Plan’s 20-year planning horizon. This Master Plan is essential to UH’s management efforts at least until 2033. After 2033, if UH is not granted a land authorization that includes the MKSR, whatever entity takes UH’s place might adopt some, all, or none of this Master Plan in its planning efforts. It is possible that, per the General Lease and subleases, that all the existing astronomy facilities will need to be decommissioned by the end of 2033 if UH or another entity is not granted a land authorization for all or portions of the MKSR.

25 As described in Section 4.3.4.3, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy if one of those sites is decommissioned and the other is selected for recycling.

26 Pu‘upoli‘ahu and Pu‘ukūkahau‘ula are not included in this list, although they were mentioned in CMP management action FLU-2, because they are not undeveloped and land uses, including habitat restoration, may be proposed on those pu‘u.
these portable toilets, rangers and/or astronomy facility personnel are still regularly called upon to clean up human waste. This continuing burden is due to: (i) parking in undesignated parking areas within the MKSR, (ii) the type and limited number of toilets provided, (iii) the fact that visitors are not always aware the facilities exist, and (iv) the facilities’ excessive distance from some locations where visitors congregate.

To mitigate this issue, UH will designate public parking areas as provided for in the UH Maunakea Rules (HAR Chapter 20-26) and maintain, reposition, and increase the number of portable toilets in the MKSR until improved permanent facilities can be developed. The repositioning of existing and future portable toilets may be necessary during construction and decommissioning projects as well. UH will investigate the extent to which it may be able to provide permanent public restrooms and shelters that can serve the MKSR. Once improved permanent restrooms are available, nearby portable toilets will be removed.

Those who come to the mountain, including BLNR, have also identified the need for shelter, particularly shelter that would be helpful to cultural practitioners, the public, and the Rangers. Shelters to provide a place where cultural practitioners and others could assemble and Rangers could store safety equipment and have office space will be considered.

Siting considerations for these facilities include:

- Proximity to where people, including the public and cultural practitioners, presently or are likely in the future to congregate, such as near designated public parking areas, shuttle stops, popular sunset viewing areas, and trailheads.
- Preference for areas that:
  - Have been previously disturbed, including the adaptive reuse of decommissioned or recycled astronomy sites and facilities. Astronomy sites where it may be more likely to consider this include Astronomy Sites 9 (Hōkū Ke'aKea) and 14 (VLBA), plus Astronomy Sites 7 (UH 2.2) and 8 (UKIRT), should they be decommissioned.
  - Are next to or near existing improvements, including astronomy facilities. 29
  - Minimize visual impacts.
  - Provide a buffer from areas with high native species diversity, unique biological communities, unique geological features, or sensitive cultural sites.
  - Provide a buffer, established in consultation with SHPD, from archaeology sites (Figure 4-2).
- Ease of access by maintenance vehicles and personnel.
- Proximity to existing utility lines if utility connections are required.

29 Facilities could be attached to existing UH-owned astronomy facilities, but placement of public facilities on astronomy sites subleased to other entities would require modification of agreements. Public facilities would need to avoid or minimize impacts to astronomy facility operations and safety hazards related to falling ice and other hazards.
impacts, including impacts to the cultural landscape and natural resources. The proximity of utilities will also be considered in the unlikely event signs require utility connections. Signs will preferentially be sited in locations that have been previously disturbed and collocated with restrooms, shelters, public parking, and trailheads. Where appropriate for safety or other considerations, these minor facilities can be sited in undisturbed areas.\textsuperscript{30}

4.2.2.4 Trails

The great majority of the trails on Maunakea are outside the MKSR on land that is either within the neighboring Mauna Kea Ice Age NAR or within the Mauna Kea Forest Reserve. These areas are managed by and under the jurisdiction of DLNR. Nevertheless, hiking is a relatively common recreational activity in the MKSR; it is concentrated on the few better-known trails in the MKSR (e.g., summit trail and Lake Wai‘au trailheads). Hiking near the summit of Maunakea is challenging and potentially hazardous for two main reasons.

- First, because the amount of oxygen in the air is only about 65 percent of what it is at sea level, individuals must breathe faster to compensate for the oxygen shortfall, and the heart must beat faster too.
- Second, the temperature, wind, snowfall, and ice in the summit region can be dangerous for those who are caught outside without the proper clothing because it leads to hypothermia, which can be life-threatening.

For health and safety reasons, hiking in areas that are not visible to Rangers and first responders is not advisable. For this reason, UH does not advocate the establishment of any new public trails within the MKSR. Instead, UH will continue to coordinate with DLNR regarding the establishment of trails at lower elevations on NAR or Forest Reserve land and will make areas under UH jurisdiction needed to support or complement such trails available for trail purposes as requested.

Notwithstanding its desire to minimize the amount of hiking across the high-elevation lands within the MKSR, UH recognizes that hiking on some routes is so well established that it will continue and be made consistent with HAR Chapter 20-26. The trail to the summit of Maunakea from Astronomy Site 9 (Hōkū KeaKea) will be considered for improvement. Accessing the highest point in the Pacific will continue to lure visitors, and some cultural practitioners also access the summit. It is a short trail, and people are always visible to the Rangers and other first responders on the road, provided they remain on the trail. Adverse impacts observed associated with use of this trail include erosion, trail widening, trail realignment, and wandering off the trail. To reduce erosion and more clearly delineate the trail, UH may consider hardening the trail while respecting the design guidelines in Chapter 7. The most appropriate techniques and materials to carry out this concept would be informed by working with Native Hawaiians that have ties to the Kaʻohe Ahupuaʻa.

\textsuperscript{30} Undisturbed areas are those areas outside of the astronomy sites that have not been visually affected by human activity. All areas within the astronomy sites, including decommissioned and restored astronomy sites, are considered disturbed.
Data gathering land uses would be sited as necessary to support the research goals of individual programs. Achieving those goals may require measurements at different elevations, data from various sides of Maunakea, or the collection of information from locations similar to other locations around the world where the same sorts of data are being gathered. UH will evaluate siting alternatives to ensure that data gathering activities, facilities, and equipment avoid and/or minimize potential impacts by, for example:

- Considering previously disturbed areas, including active and decommissioned astronomy sites, when program research goals do not require undisturbed areas.
- Siting equipment outside of buffers established in consultation with SHPD around archaeology sites (Figure 4-2).
- Considering visual impacts.

Actual site selection criteria will be proposal specific, based on type and longevity of use, and other factors. They will be established via the appropriate proposal review process (see Part 3). A proposed data gathering use will not be approved if it cannot avoid and/or minimize impacts to the extent deemed appropriate by UH and DLNR.

4.3.2 ASTRONOMY DECOMMISSIONINGS

This Master Plan calls for there to be no more than nine (9) astronomy sites with operational astronomy facilities in the MKSR by the end of 2033 (Section 4.1.2). This section outlines the process by which UH will accomplish this commitment.

4.3.2.1 Ongoing Decommissioning of Two Astronomy Sites

As summarized below, the sponsors of the CSO (Astronomy Site 10) and Hōkū 庞 Kan (Astronomy Site 9) have each already submitted a decommissioning Notice of Intent (NOI), MKMB and DLNR have approved their NOIs, and they are fully engaged in the decommissioning process laid out in the CMP. They have also both issued Draft Environmental Assessments detailing their proposed decommissioning efforts and associated impacts (Caltech 2021, UH Hilo 2021). The decommissioning of these two facilities partially fulfills CDUP HA-3568 Special Condition #10, which states “The University will decommission three telescopes permanently, as soon as reasonably possible.”

UH has decided that these two sites will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of Astronomy Site 9 may be considered during or after the decommissioning process.

4.3.2.2 Upcoming Decommissioning of Additional Astronomy Sites

Which astronomy facilities and sites will continue beyond 2033 and which shall be decommissioned will be established via the process outlined in Appendix E. It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033. One or two additional facilities, depending on if an astronomy facility is developed on Astronomy Site 13, will not be selected for continued operation via the process outlined in Appendix E. Selections are expected by the end of 2025, allowing seven years for the owners/operators of any not selected to completely decommission prior to the end of 2033.
### Astronomy Site Modification and Recycling Probability

<table>
<thead>
<tr>
<th>Astronomy Site</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 8: UKIRT</td>
<td>Slight to moderate</td>
<td>UKIRT has been one of the most impactful facilities in recent years due to its wide-field camera and ability to engage in time-domain astronomy. As its efforts with the wide-field camera wind down over the next decade, the likelihood of modification or recycling may increase. The size of the site and proximity to other resources suggest that its recycling would not yield a facility substantially larger than the existing one. See Section 4.3.4.3 regarding possible recycling once the site boundary is altered.</td>
</tr>
<tr>
<td>Site 9: Hōkū Kea</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 10: CSO</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 11 – JCMT</td>
<td>Highly unlikely</td>
<td>JCMT continues to be very impactful and is part of the Event Horizon Telescope, which is a long-baseline submillimeter interferometer. Maunakea will continue to play an important role in such efforts due to its latitude. However, it is unlikely that modification or recycling will occur due to the large and ongoing investment in submillimeter facilities in the southern hemisphere. Located in “submillimeter valley,” this site is not attractive for recycling to an optical or infrared facility.</td>
</tr>
<tr>
<td>Site 12 – SMA</td>
<td>Highly unlikely</td>
<td>Factors discussed above related to JCMT apply to the SMA as well, and the Smithsonian has not indicated any change in priorities or funding.</td>
</tr>
<tr>
<td>Site 13 – TMT</td>
<td>Extremely unlikely</td>
<td>The TMT has a CDUP to build on this site during the term of this Master Plan. If constructed, it will have an operating life of at least 50 years.</td>
</tr>
<tr>
<td>Site 14 – VLBA</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
</tbody>
</table>

Source: UH and the MKOs

Although the current MSE project concept involves the facility at Astronomy Site 5 (CFHT) becoming slightly taller (no change to building footprint at ground level), it is not a foregone conclusion that all modification or recycling projects will result in larger facilities. Instead, technological advances could result in larger aperture telescopes being developed on astronomy sites in ways that require minimal disturbance and result in minimal height and size increases, or even allow existing facilities to be replaced with smaller ones. Moreover, not all astronomical research requires large-aperture telescopes. There will always be demand for 2- and 4-meter class telescopes, and it is possible that an astronomy site that presently has a 2- or 4-meter class telescope could be modified or recycled with a similar size facility that takes advantage of the many technical advances that have occurred since the mid-1980s when telescopes of this size were last installed in the MKSR. Such recycling could substantially increase the scientific power of a site without increasing (and potentially decreasing) the footprint, bulk, and impacts of the facilities that are present.

### 4.3.4 Other Potential Astronomy-Related Projects

#### 4.3.4.1 Optical Hawaiian Array for Nanoradian Astronomy Project

The astronomy facilities on Maunakea are experimenting with the use of fiber optics for two different purposes.
CMS newsletters and/or other means, including measures to inform and involve the Native Hawaiian community.

**Figure 6-2: Phase 2 Review Process Flowchart**

**Step 1.** CMS staff prepares report that proposes Type (A, B, or C; which is informed by discussions with DLNR; see Figure 6-3), provides comments, and lists draft conditions.

**Step 2.** CMS ED reviews and approves staff report and authorizes proceeding to Step 3.

**Step 3.** Kahu Kū Mauna (KKM) and Environment Committee (EC) review and comment on proposal and associated CMS report.

**Step 4.** Maunakea Management Board (MKMB) reviews proposal, associated CMS report, plus KKM and EC input, gather public input, and provides a recommendation.

**Step 5.** CMS ED (or UH Hilo Chancellor designee) reviews all available information and advice, then decides which type each proposal is and what conditions should be imposed, if any, or rejects the proposal; the determination is documented in a letter to Proponent.

- **6.a** If Type A, this determination shall serve as UH’s approval. Proponent can proceed (as applicant) with downstream disclosures, approvals, and/or permits, if any (see Section 6.6.1 and Figure 6-6)

- **6.b** If Type B, proceed to Phase 3 review described in Section 6.4 and Figure 6-4; also see Figure 6-7 for Type B process overview.

- **6.c** If Type C, proceed with Phase 4 agreement and review described in Section 6.5 and Figure 6-5; also see Figure 6-8 for Type C process overview.

- **6.d** Proposal rejected as submitted; Proponent may revise and resubmit.

Source: UH
2 review process. If the resulting Implementation Plan is acceptable\textsuperscript{45} to UH and the proposal proponent, the proponent will lead the implementation of that plan. If the proposal proponent or UH find the Implementation Plan unacceptable, the proposal proponent may modify their proposal and return to Step 1 of the Phase 4, Type C proposal review process.

The Implementation Plan should include a proposal-specific Phase 4 review committee that consists of members of the CMS advisory bodies and community members that are knowledgeable in various aspects of the proposal and its potential impacts, including potential impacts to the Native Hawaiian cultural practices. It is further anticipated that this committee will review proposal materials, such as design drawings, environmental disclosure documents, and permit applications as the planning and review process progresses.

### 6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE

The following subsections provide an overview of the review process for each proposal type.

#### 6.6.1 TYPE A

Type A proposals are those expected to have negligible adverse impacts and are anticipated not to require a Site Plan Approval or CDUP. Between 2000 and 2020, most proposals at existing facilities on UH Maunakea Lands were classified as similar to Type A projects because they tended to consist of efforts to keep existing facilities operating efficiently and safely and did not entail structural modifications or ground disturbance.\textsuperscript{46} This trend is expected to continue in the coming years. Proposals involving the following may be considered Type A proposals:

- Repairs to existing equipment and structures.
- Like-to-like replacement of component external parts.
- Painting and resurfacing.
- Small new external equipment additions (e.g., cameras and weather sensors mounted on existing facilities, roof-mounted solar panels, and signs).
- The installation and operation of small data gathering instruments for periods of time measured in months.

As with all proposals, these Type A proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3). Given the small scale of these proposals and their negligible potential for adverse impact, the review process would be relatively short, on the order of 2 to 4 months. Figure 6-6 provides an overview of the process and timeline for Type A proposals.

\textsuperscript{45} The only proposal items being found acceptable at this step are those in the bullet list above related to process. Although the draft Implementation Plan shall include proposal scope, schedule, budget, and other conceptual materials, those items are only included for context and shall not be considered approved or accepted by any actions at Step 6 of the Phase 4 review.

\textsuperscript{46} The terms Type A, Type B, and Type C were not used prior to this Master Plan. The vast majority of projects at existing facilities were characterized as a “minimal” project over the last 20 years.


7 DESIGN GUIDELINES

This chapter provides guidelines for astronomy facilities in the MKSR, certain other facilities in the upper slopes of Maunakea, and structures in Halepōhaku. The purpose of these guidelines, combined with the proposal review process in Chapter 6, is meant to provide early guidance and community input in a manner that prepares proposals for future permits and approvals by minimizing potential adverse effects, applying lessons learned to date, and encouraging consistency among current and future land uses. All proposals should also consider the Future Land Use (FLU) management actions in the CMP. UH will be actively evaluating project designs and specifications from initial concept through final design. This will be true whether a project originates within UH or is proposed by a sub-lessee or other 3rd party.

These design guidelines apply to all structures that will remain on the site once construction activities are complete; they do not apply to temporary items that are only present at the site during construction. For example, while the guidelines discourage the use of fences, during the construction phase, temporary chain-link fencing may be used to delineate and secure the construction site.

7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS

The following specific guidance regarding the management of native excavated material and imported construction material should be followed by all proposed projects within the UH Maunakea Lands unless a proponent demonstrates a compelling reason for an exception and incorporates community input via the CMS advisory groups regarding the exception.

7.1.1 MANAGEMENT OF NATIVE MATERIALS

Excavated native rock and soil material should be managed (i.e., removed and stockpiled) in a way that allows the site to be restored as nearly as possible to its original condition when the facility is decommissioned. Accordingly:

- The amount of native rock material disturbed by a project should be kept to a minimum consistent with the design requirements of the facility.
- Native material should not be crushed, or otherwise altered, more than necessary to move it to a stockpile or amended to the point where it cannot readily be used during the site restoration process unless it consists of massive lava flows and will be used as on-site fill material after it is crushed.
- All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.
Modified and new facilities will be designed to minimize the use of hazardous materials to the maximum extent feasible.

7.2.11 WASTEWATER SYSTEM

New facilities in the MKSR (i.e., astronomy facilities constructed on recycled sites) will be required to have zero-discharge wastewater systems. Facilities that continue operating beyond 2033 will also be converted to zero-discharge wastewater systems. The basis of this requirement is unrelated to water quality concerns, it is a requirement to avoid impacts to the cultural landscape.

7.2.12 SOUND GENERATION

Heating, ventilation, and air conditioning (HVAC) and other non-mobile equipment with the potential to generate objectionable noise shall be designed and operated in a manner that limits the amount of sound that emanates from it. This means that, at a minimum, it should comply with the provisions of HAR Chapter 11-46, as applicable.

7.2.13 MAXIMIZE EXTENT OF REMOTE OPERATION

To the extent that it is technically, operationally, and economically feasible, any modified or new facilities should be designed to be operated remotely and/or robotically, and operators should make as full use of these features as is practicable.

7.2.14 EXCEPTIONS TO THE GUIDELINES FOR ASTRONOMICAL FACILITIES

UH may allow exceptions to any of the design guidelines in Chapter 7, except those related to the number of astronomy sites and the height and bulk of facilities on them. For this to occur, the facility designer/operator must demonstrate, to UH’s satisfaction, that strict adherence to the guidelines is likely to prevent the satisfactory performance of the facility or prevent the project from achieving its purpose and need. The facility operator will also need to demonstrate that the proposed exceptions will not result in significant adverse effects.

Requests for exceptions may be approved if they are minor in nature and if the proposed project is otherwise consistent with the overall goals and objectives of this Master Plan. UH will make decisions regarding requested exceptions only after it receives and evaluates input from the Phase 4 proposal review committee, MKMB, the Environment Committee, and Kahu Kū Mauna.

7.3 GUIDELINES APPLICABLE TO OTHER FACILITIES AND USES IN THE MKSR

Other facilities and uses the UH foresees potentially being developed in the MKSR are limited in scope. Examples of other potential facilities and land uses over the life of this Master Plan include:

54 The operation of individual wastewater systems within the UH Maunakea Lands has been permitted by the State of Hawai‘i Department of Health and several experts have concluded that operation of such systems do not pose a risk to surface water quality, groundwater quality, or drinking water quality.
Reimagining and Repositioning the University of Hawaiʻi: Navigating together to a Sustainable Future for UH and Hawaiʻi
As discussed in November:

- This “Reimagining and repositioning” initiative is a direct response to the pandemic crisis, which focused us more strongly on resource challenges and mission imperatives associated with the impacts and lessons of COVID-19 including their short- and long-term implications.

- Strategic Planning is the UH practice of systematically developing strategic directions, typically for a 6 year period.

- This presentation focuses on ”Reimagining and repositioning,” relevant work done and underway, and how the pandemic will influence the new Strategic Planning process now being initiated.
Lessons of the Pandemic for Hawai‘i and UH

• Hawai‘i needs a stronger and more diversified economy with less reliance on conventional tourism
• Hawai‘i needs more high-quality jobs that our residents can fill
• UH needs more diversified revenue streams than General Funds and conventional tuition
• Everyone has now seen that online learning, working and services can be effective, which improves our flexibility and responsiveness moving forward
• UH is quite agile and we can do even more with investment in our people to advance Hawai‘i priorities
• UH can do even better to utilize data to inform decision-making across the institution and the state
WHAT Hawaiʻi Needs Most from UH, Now More than Ever

• UH must engage more Hawaiʻi residents in post-secondary education and training
• UH must prepare more Hawaiʻi residents to fill the jobs Hawaiʻi needs
• UH must seed new economic sectors and develop new approaches to old ones
• UH must strengthen the research enterprise as a major economic and intellectual for the state
HOW UH Must Change the Way We Work

• UH must streamline administration, including academic administration, where possible
• UH must prioritize academic programming that advances the most pressing needs of our students and the State
• UH must diversify operating revenue sources and rely proportionately less on State General Funds
• UH must operate within the most modest physical plant feasible
• UH must work together as a more tightly knit system: UHunited
The University of Hawai‘i system is the single most important contributor to the future of Hawai‘i. The people of Hawai‘i appreciate the excellence throughout UH, understand its value to the state and show their pride in their university system. UH campuses are recognized for their quality and value and are destinations of choice within Hawai‘i and beyond. The UH System is the premier integrated higher education system in the country.

UH Board of Regents
April, 2017
Vision for Post-Pandemic
“Reimagining and Repositioning”

• **Prioritize Academic Offerings:** UH works together to offer a robust portfolio of student-responsive academic programs that meet the highest priority needs of the state and strengthen UH areas of excellence

• **Expand Online Programming:** UH collectively offers more market-responsive online programs across our islands and beyond

• **Pursue Strategic Research Initiatives:** The UH research and innovation enterprise advances opportunities for economic development and job creation while addressing the challenges facing Hawaiʻi

• **Improve Relations:** UH initiatives help improve Hawaiʻi’s relationship with the Native Hawaiian community

• **Enhance Efficiencies:** From reorganizations and online transactions to faculty workload templates and small program/course review, UH is committed to action

• **Reduce Footprint:** UH functions within an efficiently used and operated physical plant

• **Achieve Financial Sustainability:** UH operating revenues and expenditures are in full balance by FY25 (per 6-year Financial Plan)
Responding to State Needs: Academic Programming Imperatives

- Pandemic learning loss in our K12 student is one of the greatest challenges we face. UH must leave no one behind as we commit to educate more of our citizenry
  - Hawaii needs UH to bring more public high school graduates into post-secondary education and training
  - Pathways beginning with early college and CTE are powerful tools
  - Emphasis is required on equity for underrepresented populations
- UH must prepare more of our residents, from throughout our islands, to fill Hawaiʻi jobs
  - Institutionalize increased systemwide collaboration with employers through the proven sector convening strategy
  - More training, retraining and upskilling adults the way they need it: online, non-credit, industry-recognized certifications, stackable micro-credentials

These initiatives also represent opportunities for philanthropic and extramural funding
Responding to State Needs: Research, Innovation & Economic Development Imperatives

- Hawaiʻi needs UH to help grow healthy new economic sectors and develop new approaches to existing sectors
  - Stronger UH-wide educational emphasis on innovation and entrepreneurship
  - Recognize faculty excellence and achievement through T&P process
- Hawaiʻi needs the UH research and innovation enterprise to be an even more substantial economic and intellectual driver across the islands
  - Address Hawaiʻi challenges and opportunities,
  - Strengthen programs that support creation of new companies and jobs
  - Prioritize strategic and opportunistic faculty hires in areas of current and needed strengths

Excellent opportunities for extramural and philanthropic funding
Areas of Hawai‘i Need, Research Excellence and Economic Opportunity Overlap Significantly

- Education – Teacher shortage areas, Education leaders for Hawai‘i
- Health Sciences - Doctors, nurses, allied health, social workers, public health, psychologists, counselors, physical therapists...
  - Understand and address Hawai‘i health disparities
- Built Environment - Skilled labor, architects & engineers focused on sustainable and resilient structures for Hawai‘i
- IT & Computer Science – Technicians, Cybersecurity, Data Science, Machine Learning, Software Engineering
  - Hawai‘i residents with these skills can telework for employers anywhere
- Creative Media - Film / Music / Video / Arts, Production, Animation, Gaming, Esports
- Ocean, earth & atmospheric sciences; Environmental microbiology
- Climate Change, Energy, & Conservation
  - Sea level rise, coral reef health, renewable energy generation & microgrids, disaster management, ecosystem protection
  - RESILIENCE
- Food, Agriculture, Aquaculture
- Sustainable Tourism
- Astronomy & space sciences
- Civic engagement / Civil Society
- Study of Asia and the Pacific, Hawai‘i and our peoples
Post-Pandemic Online Learning Strategy

• While online learning will not replace in-person education in the next decade...
  • Data is clear that many traditional 18-year old learners do not thrive when too much of their learning is online
  • There are competencies and content best provided through in-person instruction

• Online learning will **substantially** increase in importance
  • Asynchronous online learning frees working adults and others from barriers of time and place
  • Online learning can be individualized, self-paced, competency based and scalable
  • Even “traditional” campus-based students want choice and benefit from online learning opportunities

1) Address statewide needs for education & training across our islands
  • Online Associate degrees with prior learning assessment, Baccalaureate completions, Professional post-grad certificates and degrees
  • Hybrid programs, e.g., weekends or summers in person, interactive video
  • UHunited – Create opportunities throughout the state including through University Centers

2) Identify opportunities for entrepreneurial signature online programs for global audiences in areas of UH expertise and excellence: Hawaiian language/studies, Asia-Pacific studies, Environment, Climate and resilience...

3) Continue to support individual online courses as part of traditional curricula
### Research Hubs

<table>
<thead>
<tr>
<th>Ocean &amp; Climate Sciences</th>
<th>Astronomy</th>
<th>Health &amp; Wellness</th>
<th>Digital Economy &amp; Civil Infrastructure Security</th>
<th>Sustainable Ecosystems &amp; Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Continue study of microbes and their important role in the ecosystem process</td>
<td>• Utilize solar astronomy research to help manage disruptions to power grids and communications by solar flares</td>
<td>• Utilize knowledge of ethnic/racial differences in phenomena such as cancer incidence to open avenues for Hawai’i’s multi-ethnic population to gain benefits from clinical research or socio-cultural factors that promote well-being</td>
<td>• Data visualization</td>
<td>• Utilize Hawai’i’s location and natural resources to conduct renewable energy, grid optimization and energy storage research, which are vital due to our distance from alternate power grids</td>
</tr>
<tr>
<td>• Advance conservation biology utilizing inter-disciplinary collaboration and indigenous knowledge</td>
<td>• Panoramic surveying of near-earth objects and space debris</td>
<td>• Expand and strengthen research into heart disease, diabetes and other health problems prevalent in Hawai’i and the Pacific Region</td>
<td>• Cybersecurity research, training and workforce development</td>
<td>• Utilize inter-disciplinary research and indigenous knowledge to identify sustainable agriculture products to aid local food production</td>
</tr>
<tr>
<td>• Continue efforts in management-driven research and outreach to tackle various marine issues</td>
<td>• Instrumentation/adaptive optics applications outside of astronomy where remote monitoring and image stabilization/corrections are required</td>
<td>• Advance natural product research</td>
<td>• High performance computing</td>
<td>• Conduct research to fill critical gaps knowledge about water supply</td>
</tr>
<tr>
<td>• Expand climate change research efforts</td>
<td>• Stewardship of the mountain summits through relationship building with key stakeholders to protect and maintain cultural, educational, environmental and recreational uses</td>
<td>• Advance knowledge of infectious diseases to mitigate spread and develop vaccines</td>
<td>• Engage in research to improve the strength and resiliency of digital networks to prevent disruption</td>
<td>• Continue efforts to protect natural and managed ecosystems and create sustainable urban environments</td>
</tr>
</tbody>
</table>
Workforce Development & Innovation

<table>
<thead>
<tr>
<th>Workforce Development</th>
<th>Innovation &amp; Entrepreneurship</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Vision: Citizens well-educated, “work ready” and equipped to solve problems</td>
<td>• Actively promote innovation culture and improve commercialization in Hawai‘i</td>
</tr>
<tr>
<td>o Obtain information on workforce needs of employers and skills needed by graduates</td>
<td>o Integrate innovation &amp; entrepreneurship throughout UH educational experience</td>
</tr>
<tr>
<td>o Coordinate STEM and vocational educational offerings to meet needs</td>
<td>o Expand proof-of-concept/accelerator programs</td>
</tr>
<tr>
<td>o Develop and offer programs to address work-life balance and adaptation to rapid change in workplace</td>
<td>o Engage local community and identify collaboration opportunities</td>
</tr>
<tr>
<td>o Expand and strengthen programs to address underrepresented groups</td>
<td></td>
</tr>
<tr>
<td>o Target areas of immediate need (e.g. teachers, MDs, etc.)</td>
<td></td>
</tr>
</tbody>
</table>
Initial Ideas for UH Role in Improving Hawai‘i’s Relationship with the Native Hawaiian Community: Journey to Become a Model Indigenous-Serving Institution

- Embrace Aloha – For ourselves, each other, and the environment
- Educational Disparities – Continue to reduce and eliminate equity gaps between Native Hawaiians and the general population in higher education access and attainment
- ‘Ōlelo Hawai‘i – Educate more teachers for immersion schools, Train translators for public boards, commissions and the Judiciary; Model bi-lingual signage and behaviors
- Health Disparities – Continue research with and in communities to understand health disparities including their causes and remedies
- Explore opportunities to collaborate with DHHL to create greater economic opportunity for homesteaders
- Maunakea – Continue to improve stewardship of Maunakea with stronger focus on culture and education, and ensure decommissioning of existing telescopes to honor commitments
- Identify and utilize measures and metrics of success
Current UH Financial Realities

• Operating Revenue – UH currently relies on General Funds and traditional student tuition
  • While State tax revenues are unexpectedly strong, there are many calls on them in addition to public higher education
  • Tuition rates cannot be increased substantially (beyond inflation) without harming access and competitiveness
• Operating Expenses – Reductions are possible but mostly not immediate
  • Relative to peers, UH has robust faculty/student ratios and weak staff/student ratios
  • Administrative consolidations are helpful although challenging to units’ and stakeholders’ sense of importance and authority; Savings not immediate
  • UH has not tightly managed our statewide academic program portfolio; Financial impacts of most academic decisions are not immediate
  • Some UH facilities are in desperate need of renewal, improvement and modernization; Some are under-utilized
• Timing - We are in neither a sprint nor a marathon
  • Prudent management and federal relief funds have enabled adequate reserves
  • We must achieve balanced operational finances with operating revenues covering operating expenses by FY24-25
Prioritize areas of state need
  • Workforce
  • Economy
  • Student demand / sustainability

Address small programs and low-enrollment courses
  • Stop-Out, Termination, Merger
  • UHunited: Opportunities to share across system
Review Opportunities for Savings Around Organization and Personnel Practices

• Reorganizations and consolidations on and among campuses to provide effective and efficient shared support services for students and faculty
• Leverage and accelerate the current work on:
  • Faculty Workload Assignment Template
  • Faculty Classification initiative to engage more qualified faculty in direct instruction
• Faculty buyout policies can increase percentage funding of faculty salaries from extramural funds in some units
• Charge tuition for extramurally funded GAs to grants
• Create flexible spaces that meet current and future needs, e.g.
  • Modern appropriately-sized classrooms
  • Shared space for teleworkers when on campus (frees up offices)
  • Better supported shared core research facilities and equipment
• Create and apply standard usage metrics
  • Office space standards
  • Classroom scheduling and utilization standards – Evening/weekend classes may attract more non-traditional students
• Review and divest from external leases where possible
• Identify, repurpose and/or decommission under/unutilized campus spaces
• Actively manage research space for Indirect Cost Recovery (IDC)
• Monetize or divest UH real estate with high costs and/or low academic value
• Downsize physical plants to match current and anticipated future needs
Revenue Measures Can Also Enhance Achievement of Mission

• Increased Campus Enrollment Generates More Tuition
  • More opportunity in public high school going rates, private school recruitment, internal transfers, retention, non-resident domestic and international recruiting
  Serving more students; leaving fewer behind

• New Programs Can Attract New Students and Revenue
  • Build and market unique programs of excellence
  • More online and adult-learner focused programs
  • More non-credit workforce training: micro-credentials and industry certifications
  Preparing more Hawai‘i residents for Hawai‘i jobs

• Strategic Research Initiatives Support Continued Growth in Extramural Funding
  Research can address Hawai‘i challenges and opportunities, enhances job creation

• Philanthropic funding on multi-year upswing
  Donors primarily support scholarships and research; strengthens town—gown relations

• Multiple real estate projects nearing fruition
  • Some opportunities complement our missions, some purely financial
  • Where possible, increase community use of UH facilities and resources
  Revenue beyond costs CAN support operations; Community engagement helps UH
• A seamless web of educational opportunity must ensure
  • Closing of equity gaps with entry points for everyone
  • Diverse curricular pathways from K12 and early college into and through the UH system
  • Seamless curricular pathways from UH CCs into UH universities
  • Sharing and collaborating on courses and programs to maximize opportunity across the islands
    • Maximize access, Leverage capacity and expertise, Extend Hub & Spoke approach across units
  • Common modernized general education
• Operating Efficiencies; Shared centralized high-quality services
• Shared physical facilities where possible
• Continue to engage in and monitor opportunities and ideas from “The Power of Systems”
High-Level Summary of Work Underway

• Intense and inclusive post-pandemic planning in every academic unit
  • Public web pages document processes and work products
• Program review underway throughout UH
• New lens on organizational structures
  • Much has been done; More proposals being designed and changes underway
• Development of approaches to shared services
  • Community Colleges leading the way
• Human resource practices in transition
  • Faculty Workload Assignment Template & Classification Review
• Campus space utilization studies complete or underway;
  Will provide basis for planning
Post-Pandemic Work Underway at UH-Mānoa
<table>
<thead>
<tr>
<th>PROGRAMS TERMINATED</th>
<th>APPROVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA in Zoology</td>
<td>F2021</td>
</tr>
<tr>
<td>BS in Ethnobotany</td>
<td>F2021</td>
</tr>
<tr>
<td>Master of Geosciences</td>
<td>F2021</td>
</tr>
<tr>
<td>MS in Biological Engineering</td>
<td>SP2020</td>
</tr>
<tr>
<td>Doctor of Public Health</td>
<td>SP2021</td>
</tr>
<tr>
<td>Executive Accounting Certificate</td>
<td>SP2021</td>
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</table>
# UH Mānoa Actions Taken: Spring 2020 - Present

<table>
<thead>
<tr>
<th>PROGRAMS STOPPED OUT</th>
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</thead>
<tbody>
<tr>
<td>PhD in Nursing</td>
<td>F2020</td>
</tr>
<tr>
<td>BA in Russian</td>
<td>SP2020</td>
</tr>
<tr>
<td>MA in French</td>
<td>SP2020</td>
</tr>
<tr>
<td>MA in Religion*</td>
<td>SP2021</td>
</tr>
<tr>
<td>Doctor of Juridical Science</td>
<td>SP2021</td>
</tr>
<tr>
<td>PhD in Biomedical Sciences, Clinical Research track</td>
<td>SU2021</td>
</tr>
<tr>
<td>Technologies for Teachers Graduate Certificate</td>
<td>SP2021</td>
</tr>
</tbody>
</table>

*Stop-out removed after program modified.*
REORGANIZATIONS AND PROGRAM MERGERS UNDERWAY
(Proposals Developed & Under Review)

- School of Communications and Matsunaga Institute for Peace (Social Sciences), Department of Communicology (Arts, Languages & Letters), Library & Information Science Program (Natural Sciences) to form the School of Communication & Information (Social Sciences).

- Classics Program (Department of LLEA) with the Department of Religion to form the Department of Religions & Ancient Civilizations (undergraduate degree mergers underway).

- Consolidation of bachelor’s degrees in French, German and Spanish into one BA (with concentrations) to realize administrative efficiencies and to make the new BA more robust with interdisciplinary and cross-cultural connections for a more flexible curriculum.

- Center on the Family (CTAHR) to the Social Science Research Institute (Social Sciences) to strengthen capacity and effectiveness. Both organizations work at the intersection of research and outreach to address emerging issues and offer evidence-based solutions for policy and practice.
REORGANIZATIONS COMPLETED

- **Phase II Reorganization** (effective July 1, 2021): Reduced siloes to foster collaborative initiatives and work, ensured financial savings, and reduced executive/managerial and support positions.

- **College of Arts, Languages and Letters** (effective July 1, 2020): Merged three stand-alone schools/colleges (College of Arts & Humanities, College of Languages, Linguistics & Literature, and the School of Pacific & Asian Studies) into one college to address declining enrollments, to reduce the number of executive/managerial positions, to facilitate stronger interdisciplinary collaboration, and to reinvigorate the liberal arts with our unique Asia-Pacific strength and focus at the core.

- **Library Services** (effective December 3, 2020): Designed to achieve greater operational effectiveness and efficiency with current staffing levels through the consolidation of Sinclair Library functions, strategic dissemination of select collection responsibilities, and reconfiguration of the Access Services Department.
ALIGNING RESOURCES TO POST-PANDEMIC PRIORITIES

• **Performance Indicators for Prioritization developed** as a tool to support the ongoing identification of, and investment in our priorities. Collaborative working group of faculty, students, staff and administrators developed the indicators and metrics to guide resource allocations.

• **Indicators aligned with the UH Mānoa strategic plan goals and Post-Pandemic Hawai‘i priority areas**, including Native Hawaiian Place of Learning; Student Success; Research & Creative Work; Responsiveness to the Needs of Hawai‘i; and Outreach/Engagement with the Community.

• **FY 2022 Hiring Decisions Utilized Performance Indicators.** Academic units and the Mānoa Budget Team utilized the indicators to prioritize faculty hiring requests for the first time.

• **The Indicators will facilitate a regular assessment** of our performance in living our values and achieving our goals. It is expected that the campus will revisit our priorities, indicators, and metrics regularly to ensure that we are agile, innovative, and responsive to the needs of Hawai‘i.
Post-Pandemic Work Underway at UH Hilo
• Shore up transfer services and create more transfer pathways from UHCCs that prepare students for careers that allow them to stay in state.

• Create an intentional online portfolio to better serve our island and state.

• Create summer academies and low-residency degree programs to attract more students from off-island.

• Maintain focus on equity and student success.
Update curriculum and develop new programs to better align with employer needs and student demand

- Pharm D curricular transformation project
- Drone technology embedded in STEM programs
- Data science and data visualization
- Fisheries and Wildlife
- Bachelor’s level education programs and STEM Ed.
• Agencies on campus
  • USGS
  • SHPD

• Nascent partnership projects
  • BBB grant for food and ag
  • NELHA and ‘Iole
UH Hilo - Preparing students for careers in Hawai‘i: Experiences

- Shore up support and expand opportunities for internships
  - Akamai internships
  - PIPES internships
  - Legislative internships
  - COBE internships
- Bonner Leadership Program
- Kuleana and Community course
- Kawili Kine Cultures
- Peer mentoring
• Data-informed decision-making.
  • AASCU Transformation Accelerator Project.
  • CSU Student Success Analytics Certificate Program.

• Beyond diversity: Focus on equity.
  • AAC&U Truth Racial Healing and Transformation Center.

• Organizational investments on priority needs.
  • Student Mental Health
  • Employee resource groups
  • Professional development
  • Research support
Post-Pandemic Work Underway at UH West O‘ahu
UH West O‘ahu: Engage more students in post-secondary education

- Early College pathways with our regional high schools academies
- Strong 2+2 articulation agreements with community colleges
- Expanded online degree and certificate programs
- Dedicated space for VA & active duty military students and family members
- Strengthened student support in behavioral health and counseling, tutoring, financial literacy, academic advising and life coaching
- Emphasize grants, contracts, philanthropic opportunities to support student scholarships, student internships/mentoring, student transfer, student on-campus and on-line support, faculty scholarship and teaching, and academic programs
- Growth-oriented action goals across signature programs
• Placement of students in capstone practica with area businesses and industries
• Partnership with Kapolei Chamber of Commerce and Complex Area schools to prepare students for careers in our region
• Joint efforts with DOE and KS to prepare teachers. 228 alumni of BEd program teaching in the Hawai‘i DOE; 88% of alumni teaching at schools in Leeward or Central O‘ahu
• Expanded Allied Health professions with 7 new concentrations
• Career pathways merging ‘ike and ‘ōlelo Hawai‘i with science, applied mathematics, business, hospitality, and creative media
UH West O‘ahu: Innovating to grow new and existing economic sectors

• New degrees and certificates targeting needs of an increasingly digital economy

• Hybrid, blended learning opportunities that leverage our use of developing technology for jobs in a future-oriented economy

• Extramural funding endeavors to grow innovative technologies by bringing faculty, students, and external partners together to address future challenges

• Leveraging academic programs across UH System, talent of faculty, students, and graduates, and the new ACM building to advance innovative technologies
Post-Pandemic Work Underway Across Our Seven UH Community Colleges
Repositioning and Reimagining the UHCCs

• UHCC will:
  • Better shared resources to serve our students and local communities.
  • Greater collaboration will leverage strengths of different campuses.
  • Allow UHCC to take advantage of distance learning to extend new opportunities statewide.
Objectives and Priorities:

- Provide statewide access for quality education and training to meet the state's workforce needs and to serve community needs and provide employment opportunities for all residents (CC’s open door legacy). Hawaii’s residents should have access to a diversity of programs through the UHCC as a group; each campus will have areas of emphasis and contribute to the range of options provided statewide.
- Focus on workforce needs and transfer opportunities that lead to living-wage jobs.
- Identify campus strengths and reduce duplication of programs and services.
- Maintain a focus on student success and equitable outcomes.
UHCC Operational Units

• Centralizing operations for better consistency and service to students
  • Now in pilot – 3 campuses taking part in centralized financial aid awarding
  • Moving toward beginning centralized approaches to Admissions

• Right-sizing for consistent levels of staffing
  • Human Resources
  • Institutional Research
  • Financial Management
• Administration of non-credit programs will be centralized for consistent and aligned approach to:
  • Responding to workforce development needs
  • Consistent quality of course offerings
  • Consistent pricing and financial management for course offerings
  • Leverage campus level academic programs to deliver meaningful training
  • Centralized approach to building non-credit credential programs

• Short term non-credit programs will be aligned so that workforce training will be “stacked” to allow for advancement in a career pathway.
UHCC Academic Programs

• Academic programs are being evaluated for:
  • Continuous improvement and alignment with current or future workforce needs
  • Opportunities to collaborate among campuses to increase students’ access and provide opportunities for efficiency
  • Program health and efficiency
• Since 2020, 55 community college credentials have been stopped out or terminated based on evaluation: 1 Bachelor of Applied Science, 11 Associates degrees, and 43 other credentials (i.e., certificates, concentrations).
• Among other options, faculty and administrators are considering:
  • “Hub and spoke” models:
    • Work with academic programs still underway
    • Assessments ongoing of courses to be shared to avoid multiple sections of small class sizes
    • Evaluation of needed new programs to respond to workforce development to be shared cross-campuses
  • Program investments
  • Program consolidations
  • Program stop outs for curriculum redesign
  • Program terminations
## Program stop outs and terminations

### Hawai‘i Community College

<table>
<thead>
<tr>
<th>Credential</th>
<th>Program Name</th>
<th>Stop Out Date</th>
<th>Termination Date</th>
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</thead>
<tbody>
<tr>
<td>AAS</td>
<td>Architectural, Engineering &amp; Construction Technology</td>
<td>Spring 2022</td>
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<tr>
<td>CA</td>
<td>Architectural, Engineering &amp; Construction Technology</td>
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<tr>
<td>CO</td>
<td>Business Essentials</td>
<td>Fall 2020</td>
<td>Spring 2023</td>
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<tr>
<td>CO</td>
<td>Business Foundations</td>
<td>Fall 2020</td>
<td>Spring 2023</td>
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<tr>
<td>CO</td>
<td>Culinary Arts</td>
<td>Fall 2020</td>
<td>Spring 2022</td>
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<tr>
<td>AAS</td>
<td>Electronics Technology</td>
<td>Fall 2022</td>
<td></td>
</tr>
<tr>
<td>CA</td>
<td>Electronics Technology</td>
<td>Fall 2022</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>Entrepreneurship</td>
<td>Fall 2020</td>
<td>Spring 2023</td>
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<tr>
<td>CO</td>
<td>Network Certificate</td>
<td>Fall 2022</td>
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### Honolulu Community College

<table>
<thead>
<tr>
<th>Credential</th>
<th>Program Name</th>
<th>Stop Out Date</th>
<th>Termination Date</th>
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<tbody>
<tr>
<td>AAS</td>
<td>Auto Body Repair and Painting</td>
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<td>CA</td>
<td>Auto Body Repair and Painting</td>
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<tr>
<td>AS</td>
<td>Communication Arts</td>
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<td>CA</td>
<td>Communication Arts</td>
<td>Fall 2021</td>
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<td>AAS</td>
<td>Small Vessel Fabrication and Repair</td>
<td>Fall 2015</td>
<td>Fall 2021</td>
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# Program stop outs and terminations

## Kapi‘olani Community College

<table>
<thead>
<tr>
<th>Credential</th>
<th>Program Name</th>
<th>Stop Out Date</th>
<th>Termination Date</th>
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</thead>
<tbody>
<tr>
<td>ASC</td>
<td>Asian Studies</td>
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<td>Spring 2022</td>
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<tr>
<td>CO</td>
<td>Customer Service</td>
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<td>Fall 2020</td>
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<tr>
<td>CO</td>
<td>Database Administration</td>
<td>Fall 2021</td>
<td>Fall 2023</td>
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<td>Concentration</td>
<td>Liberal Arts concentration in Deaf Studies and Deaf Education</td>
<td>Fall 2019</td>
<td>Spring 2022</td>
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<tr>
<td>Concentration</td>
<td>Liberal Arts concentration in Pacific Island Studies concentration</td>
<td>Spring 2022</td>
<td>Spring 2025</td>
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<tr>
<td>CO</td>
<td>Nurse Aide</td>
<td></td>
<td>Fall 2020</td>
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<tr>
<td>CA</td>
<td>Retail Management</td>
<td></td>
<td>Fall 2020</td>
</tr>
<tr>
<td>CO</td>
<td>Retail Management</td>
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<td>Fall 2020</td>
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<tr>
<td>CO</td>
<td>Retailing</td>
<td></td>
<td>Fall 2020</td>
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<tr>
<td>CO</td>
<td>School Health Aide</td>
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### Kaua‘i Community College

<table>
<thead>
<tr>
<th>Credential</th>
<th>Program Name</th>
<th>Stop Out Date</th>
<th>Termination Date</th>
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</thead>
<tbody>
<tr>
<td>CO</td>
<td>Accounting Office Assistant</td>
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<td>Fall 2022</td>
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<tr>
<td>CO</td>
<td>Administrative Medical Assisting</td>
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<td>Fall 2020</td>
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<td>CO</td>
<td>Adult Residential Care Home Operator</td>
<td>Fall 2020</td>
<td>Spring 2021</td>
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<tr>
<td>CO</td>
<td>Advanced Geographic Information Systems</td>
<td>Fall 2021</td>
<td>Fall 2022</td>
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<tr>
<td>CO</td>
<td>Beekeeping</td>
<td>Fall 2021</td>
<td>Spring 2022</td>
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<tr>
<td>AAS</td>
<td>Business Technology</td>
<td>Fall 2018</td>
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<tr>
<td>CA</td>
<td>Business Technology</td>
<td>Fall 2018</td>
<td>Fall 2020</td>
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<tr>
<td>CO</td>
<td>Community Health Worker</td>
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<tr>
<td>ASC</td>
<td>Fitness Professional</td>
<td>Spring 2021</td>
<td>Fall 2022</td>
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<td>CO</td>
<td>Geographic Information Systems</td>
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<td>ASC</td>
<td>Plant Biology &amp; Tropical Agriculture</td>
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<tr>
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<td>Spring 2021</td>
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<tr>
<td>CA</td>
<td>Plant Biology &amp; Tropical Agriculture</td>
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<tr>
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<td>Plant Biology &amp; Tropical Agriculture</td>
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<td>CO</td>
<td>School Health Aide</td>
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<tr>
<td>CA</td>
<td>Sustainability Science Management</td>
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# Program stop outs and terminations

## Leeward Community College

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<th>Program Name</th>
<th>Stop Out Date</th>
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<tbody>
<tr>
<td>Concentration</td>
<td>Digital Media concentration in Internet Publishing</td>
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<td>Fall 2021</td>
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<tr>
<td>Concentration</td>
<td>Information and Computer Science concentration in Database Support Specialist</td>
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<td>Fall 2021</td>
</tr>
<tr>
<td>Concentration</td>
<td>Information and Computer Science concentration in Mobile Developer Specialist</td>
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<td>Fall 2021</td>
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<tr>
<td>Concentration</td>
<td>Digital Media concentration in Internet Publishing</td>
<td></td>
<td>Fall 2021</td>
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## Maui College

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<th>Credential</th>
<th>Program Name</th>
<th>Stop Out Date</th>
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</thead>
<tbody>
<tr>
<td>AAS</td>
<td>Auto Body Repair and Painting</td>
<td>Spring 2020</td>
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<td>AAS</td>
<td>Business Technology: Information Processing</td>
<td>Spring 2022</td>
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<tr>
<td>AAS</td>
<td>Business Technology: Medical Office</td>
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<tr>
<td>BAS</td>
<td>Engineering Technology</td>
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<td>AAS</td>
<td>Fashion Technology</td>
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<td>CO</td>
<td>Marine Option Program-Marine Naturalist I</td>
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<td>Marine Option Program-Marine Naturalist II</td>
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## Program stop outs and terminations

### Windward Community College

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<td>Plant Landscaping</td>
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<td>CO</td>
<td>Subtropical Urban Tree Care</td>
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<td>Fall 2019</td>
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</tbody>
</table>
• Work with academic programs still underway
• Assessments ongoing of courses to be shared to avoid multiple sections of small class sizes
• Evaluation of needed new programs to respond to workforce development to be shared cross-campuses
• Create opportunities at University Centers
Looking Forward
Examples of What Success Looks Like

• Increasing number of online programs underway
• Portfolio of academic programs across the UH system meet the highest priorities of the state
  • Reduce number of out-of-state teachers / Eliminate shortage
  • Reduce Healthcare worker shortage
  • Increased numbers of enrollments in IT/CS/Cyber/Engineering
  • Plan for early childhood ed workforce
  • Institutionalized engagement with employers to meet needs
• UH driving job creation across the islands in multiple sectors
  • Research enterprise growing and hiring
  • UH initiatives leading to new companies with new jobs
• Efficiently used physical plant – lower operating costs
• Revenues and expenditures in full balance by FY25
UH Strategic Directions 2022 - 2028

Timeline: Implementation in 2022

Establish steering committee

**Phase I outreach:**
- set up website
- send information and survey to faculty and staff

**Phase II outreach**
- to internal and external discussions/workgroups

**Phase III outreach**
- with draft plan and measures

2022

- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEP
- OCT
- NOV

- Publish results of survey and review of campus strategic plans
- Develop draft plan and possible measures with officers and BOR
- Finalize report and present to BOR
Post-Pandemic Response Continues Actively
Work on Next Strategic Plan Begins

UHunited
University of Hawai‘i at Mānoa Athletics

Presentation to

Board of Regents

Athletics Department Update

January 20, 2022
• Athletics Department Vision
• Issues Recently Highlighted
• NCAA Transfer Portal
• Financial Considerations
Vision:
To bring pride to Hawai‘i through championship-caliber competition

Mission:
To prepare our student-athletes to become successful in life

Core Values:
Integrity, commitment, respect, ‘ohana, and passion

Role of Athletics Department:
To serve the student-athlete through an academic degree program and through intercollegiate sports to develop their capabilities to the fullest. Furthermore, our role is to promote sportsmanship, equal opportunity, and diversity among participants in our athletics programs. In addition, the Department strives to contribute toward the economic development of Hawai‘i through our intercollegiate sports programs that bring excitement to our fans as well as competitors’ fans, and to the supporters and stakeholder of the State of Hawai‘i…
Issues Recently Highlighted

• Mental Health
• Student-Athlete Nutrition
• Communication Channels for Student-Athletes
• Facilities
• Responsiveness of Athletics Department Administration

January 20, 2022
Mental Health

Jonathan Sladky, M.D. and Lyn Nakagawa, ATC
The current Athletics’ administration has made mental health care for athletes the top medical priority over the past 3 years. The well-being and mental health of student-athletes remains our highest priority.

**UH Athletics’ “firsts”**

- Since Fall semester of 2019, the Athletics Department has (for the first time) had a half-time mental health specialist (psychologist/LCSW) dedicated to the mental healthcare of student-athletes
- Beginning Spring semester of 2021, Kelly Hee brought on officially as a half-time hire to broaden availability to athletes and increase proactive mental health care
- During the worst of the COVID-19 pandemic, the Athletics Department partnered with TalkSpace to make the TalkSpace app available to all student-athletes; this app allows connection at any time to licensed psychologists through the app
- The Counseling and Student Development Center (CSDC) partnered with Athletics Department to offer group therapy sessions for student-athletes to proactively address mental health issues and concerns
Mental Health Care Resources

- **Proactive / Preventative Efforts:**
  - Newsletters and information (TalkSpace, Cindy Rote, CSDC)
  - Large-scale presentations (Kelly Hee, Eating Disorder summit, Dr. Sladky)
  - CSDC / UH Athletics staff, coaches, counselors, academic advisors, and learning specialists

- **Counselors in Residence (CIR)** – CSDC therapists who live in the residence halls to support on campus residents after hours and on weekends.
  - TalkSpace: available to all athletes during the 2020-2021 academic year
  - Individualized / team-based preventative presentations: through Kelly Hee during the 2021-22 academic year
  - Plans are in place to implement standardized mental health screening for all athletes (in conjunction with pre-participation clearance) beginning in the 2022-23 academic year
Mental Health Care Resources

- **Reactive / Treatment:** Students may contact CSDC or local mental health hotlines directly, or may be triaged through our medical staff.

- UH Athletics Department has implemented mental health referral protocols, and has an Emergency Action Plan.
  
  - **Acute, Emergent:** CSDC Blue Line, Queen's Psych ER, Castle Psych ER
  
  - **Acute, Non-emergent:** *UH Athletics counselor*, CSDC counseling, Queen's Counseling Services
  
  - **Chronic:** *UH athletics counselor*, CSDC counseling, Queen's Counseling Services
  
  - **Preventative / Proactive Resources:** *UH Athletics counselor*, meditation apps, Cindy Rote
Student-Athlete Nutrition

Lois Manin, Associate Athletics Director, Student Services/SWA
Student-Athlete Nutrition
Comparison of Student-Athlete Meals to Peers

<table>
<thead>
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<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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<td>$792,416</td>
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<td>87,063</td>
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<td>624,714</td>
<td>623,042</td>
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<td>Group of 5</td>
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<td>269,904</td>
<td>399,396</td>
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<td>Power 5</td>
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<td>1,856,903</td>
</tr>
</tbody>
</table>

- Always want to do “more” for student-athletes, balanced against budget constraints and equity among all sports
- Hawai‘i spending on student-athlete nutrition compares favorably to peers and benchmarks
- Difficulties of COVID impact on budget and nutrition programs; compounded by legislature not renewing $900,000 of support for student-athlete nutrition

Source: NCAA Institutional Performance Program data base. Student-athlete meals includes supplemental meals, pre- and post- game meals, occasional meals paid through UH Foundation, and food/drinks provided through “trade” (e.g., Muscle Milk) via the weight room.
Communication Channels for Student-Athletes

Lois Manin, Associate Athletics Director, Student Services/SWA
Communication Channels for Student-Athletes

Bringing Concerns as Student and/or as Athlete

• Various channels established to allow student-athletes to bring concerns forward as individuals or as group, for example:
  - End of season program evaluation
  - Exit evaluation/interview
  - Student-Athlete Advisory Committee
    o Each team represented
    o Promote increased communication between student-athletes, coaches and administration
    o Promote communication, interaction, and support between teams in an effort to cultivate a sense of community pride among UHM SA
    o To provide an opportunity for SA to develop leadership skills.
    o To promote SA welfare by offering suggestions for and feedback on SA Development programming and on other programs and policies affecting SA
Communication Channels for Student-Athletes

Bringing Concerns as Student and/or as Athlete

Jan 20, 2022

• Student-Athlete Handbook contains information in various areas where concerns may be raised, including complaints as a student and/or as an athlete

• There are several channels available to student-athletes
  
  - Time doesn’t allow for going over all of them during this meeting, but Athletics can go over in more detail before ICA

SECTION 2: RIGHTS OF A STUDENT-ATHLETE

UHM POLICY ON EQUAL OPPORTUNITY AND NON-DISCRIMINATION

Student-Athlete Handbook contains information in various areas where concerns may be raised, including complaints as a student and/or as an athlete.

• There are several channels available to student-athletes

  - Time doesn’t allow for going over all of them during this meeting, but Athletics can go over in more detail before ICA

COMPLAINTS AND GRIEVANCES

If you feel that you have been treated unfairly by anyone in the university system, the university provides a number of different ways for you to appeal for relief. You should choose the proper venue based on the nature of your complaint, and whenever possible, you should make use of the procedures that are available to all students before you turn to those that are specific to SA. If you need some advice on how to proceed, you can consult an academic advisor, the EAB (Dr. David Erickson, 956-4243), or the office of the Dean of Students (Queen Lilipalalani Center for Student Services, room 409, 956-3298).
• For team-related concerns, student-athletes are generally encouraged to communicate and work with their coaches, sport administrators, and if warranted, the Athletics Department leadership

• In those instances where it may be difficult for the student-athletes to work with their coaches, the sport administrators or the Athletic Director may establish other methods to communicate and move forward
  – UH Football is a recent example, where meetings were held directly between the Athletics Director and players and an “action plan” was developed based on the feedback received
    o Athletics will be prepared to share more details of the action plan with the ICA
Facilities

David Matlin, Athletics Director
Athletics Facilities
Overview

- Athletics facilities serve multiple users
  - UHM Athletics
  - UH classes (e.g., kinesiology)
  - Intramurals
  - Community (e.g., state championships, graduations, robotics, charitable events such as Relay For Life)
- Improvements provide multiple benefits
  - Health, safety & wellness of users
  - Fan experience
  - Recruiting
  - Competitiveness
  - Revenue opportunities

- Roughly $40+M has been invested in improvements to athletics facilities over the past several years
- Department strives to be mindful of all sports as well as Title IX equity requirements
Recent testimony mentioned “better” locker room and weight room among concerns

**Alexander C. Waterhouse Training Facility**
- Constructed in 1994
- ~$2.2M in improvements currently in design stage
- Nutrition center targeted as part of improvements

**Rainbow Warrior Football Locker Room**
- Last remodeled 6-7 years ago
- Another remodel will be subject to funds becoming available and in consideration of other facilities needs, including Title IX considerations
Athletics Facilities
High Performance Center Opportunity

- Multi-purpose facility (e.g., academics, health & wellness, offices/meeting rooms, equipment, locker rooms)
- Allow consolidation of football into facility to free up space that can be reallocated to other sports in support of Title IX efforts
- Allow UH to be comparable to rest of Mountain West programs
- School of Architecture (Summer 2019)
  - Led by Professor Hyoung-June Park
  - Student teams developed three conceptual designs that can meet athletics’ needs and encourage integration of student population with athletics
Responsiveness of Athletics Department Administration

David Matlin, Athletics Director
• Recent public testimony raised that there were instances where concerns were raised by no action was ever taken by the Athletics Department administration

• In general, the Athletics administration does take every complaint seriously and takes action, where warranted.

• Athletics is reviewing all the testimony provided and all instances where a lack of action was raised to determine whether the department responded appropriately
  
  – Review is ongoing. At this time, we believe that many of the stated instances were responded to and documented appropriately

  – However, we enter the review with an open mind and no preset position on any of the instances brought up

  – Athletics will be prepared to provide a more detailed assessment before the ICA once the review is completed and with appropriate safeguards to protect student-athlete confidentiality
NCAA Transfer Portal

David Matlin, Athletics Director


**NCAA Transfer Portal**

**Description**

<table>
<thead>
<tr>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCAA establish transfer portal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-time transfer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

“Transfer portal” allows student-athletes from all three NCAA divisions to post notices of their intent to transfer and allows coaches to search for players to recruit.

April 28, 2021 - NCAA enacted the “one-time transfer rule” that allows athletes to transfer to a different school one time during their career and play immediately without getting permission from their coach or school.

July 1, 2021 - NCAA made it possible for athletes to profit off their “name, image and likeness” (NIL).

Athletes may seek transfers for a multitude of reasons such as: playing time, coaching conflicts, hopes of playing professionally, opportunity to profit from NIL, personal and family reasons, etc.
Impact from NCAA transfer portal rule change has been significant and felt by all levels of programs

"It's crazy. It's really sad, to be honest with you," Clemson University head football coach Dabo Swinney said, according to The Clemson Insider. “It's total chaos right now,” he added. "There's so much tampering going on and so many adults manipulating young people, and it's sad.”

"I don't think people really say it this way, but let's not make a mistake: We have free agency in college football," agreed University of Mississippi head football coach Lane Kiffin, reported in the Clarion Ledger.

Change has empowered athletes with flexibility to choose to transfer, but can carry risks

"We have to support an environment that provides more flexibility, permits legitimate transfer while holding to account those who tamper and want to turn college rosters into their personal recruiting grounds," Southeastern Conference Commissioner, Greg Stankey said.

Stankey noted in July 2021 that roughly 13,000 Division I student-athletes had entered the portal and that 11,000 remained without a new team

## NCAA Transfer Portal
### Hawai‘i’s and Peers’ Experience

### Mountain West Conference

<table>
<thead>
<tr>
<th></th>
<th>2020-2021</th>
<th>2021-2022</th>
<th>% Change</th>
<th>From Prior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force</td>
<td>11</td>
<td>12</td>
<td></td>
<td>9.1%</td>
</tr>
<tr>
<td>Boise State</td>
<td>7</td>
<td>6</td>
<td></td>
<td>(14.3)%</td>
</tr>
<tr>
<td>Colorado State</td>
<td>9</td>
<td>24</td>
<td></td>
<td>166.7%</td>
</tr>
<tr>
<td>New Mexico</td>
<td>3</td>
<td>20</td>
<td></td>
<td>566.7%</td>
</tr>
<tr>
<td>Utah State</td>
<td>13</td>
<td>10</td>
<td></td>
<td>(23.1)%</td>
</tr>
<tr>
<td>Wyoming</td>
<td>6</td>
<td>12</td>
<td></td>
<td>100.0%</td>
</tr>
<tr>
<td>Fresno State</td>
<td>10</td>
<td>7</td>
<td></td>
<td>(30.0)%</td>
</tr>
<tr>
<td>Hawaii</td>
<td>16</td>
<td>22</td>
<td></td>
<td>37.5%</td>
</tr>
<tr>
<td>Nevada</td>
<td>5</td>
<td>23</td>
<td></td>
<td>360.0%</td>
</tr>
<tr>
<td>San Diego State</td>
<td>4</td>
<td>12</td>
<td></td>
<td>200.0%</td>
</tr>
<tr>
<td>San Jose State</td>
<td>2</td>
<td>5</td>
<td></td>
<td>150.0%</td>
</tr>
<tr>
<td>UNLV</td>
<td>8</td>
<td>14</td>
<td></td>
<td>75.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>94</strong></td>
<td><strong>167</strong></td>
<td></td>
<td><strong>77.7%</strong></td>
</tr>
</tbody>
</table>

1 Data as of January 19, 2022

December 24, 2021 - First time online ad used by an athletic program to attract transfer portal athletes
UH Football Transfer Portal Drivers

• Rule changes in 2021 to Transfer Portal and Name Image Likeness
  o Ability to transfer without “sitting out” a year and new financial opportunities with NIL
• For some, opportunity to play at Power-5 schools to try to increase likelihood of NFL careers
• Increase in possible “tampering” with student-athletes in Hawai‘i and nationwide
• Hawai‘i had some of the longest and most stringent COVID requirements in the nation. Playing in front of no fans was unique to Hawai‘i as were COVID travel requirements, which significantly impacted UH Football’s efforts in:
  o Recruiting, coaching, performance training, team building
• Surprise closing of Aloha Stadium, the venue where players expected to compete before fans
  o “Emergency improvements” to Clarence TC Ching Athletics Complex are amazing but facility lacks the size and amenities of a real stadium that student-athletes expect
  o Continuing uncertainty around future and timeline for new stadium not under UH control
• Inability to play in expected Division I setting
  o Only FBS program that had zero fans for most of season and 1,000 only at Game 4
  o No concessions or other amenities all season
  o Parents and families not allowed to attend
• Transition to new head coach and staff under COVID conditions including limited in-person socialization

Nonetheless, goal moving forward is to eliminate transfers driven by the kinds of feelings expressed in the public hearing

Meet with each departing athlete to understand reasons for leaving
Also identify opportunities that could improve program and athlete experience at Hawaii
Financial Considerations

David Matlin, Athletics Director
Financial Context of UHM Athletics

- UH Mānoa athletics are primarily supported by revenue generated but also rely heavily on campus services and internal allocations.

- The annual deficit is a mismatch between revenues/allocations and expenditures for athletics, including internal expenses.
  - All financial obligations are paid.
  - The deficit and accumulated debt show up as internal to UH Mānoa, which now has healthy balances overall.

- The UHMAD has taken many steps to contain expense and generate revenue.

- At the same time, many costs have increased due to changes out of our control.
  - NCAA changes around COA.
  - Escalation of spending driven by Power-5 schools.

- The legislative appropriation of $3.6M, including $900K for student meals was deeply appreciated, but has been inconsistently available. We are hopeful the $3.6M will be restored this year.

- The UHM campus has committed to support additional scholarship costs.

- We would appreciate the opportunity for a deeper dive with numbers at a forthcoming meeting of the Intercollegiate Athletics Committee.

Our goal is to work with the UH Mānoa administration to eliminate the paper deficit and debt as part of the overall campus financial plan and to arrive at an internal allocation under which we can consistently balance revenue and expenses.
Portion of revenues that UH Athletics generates itself, compares very favorably to its peers and benchmarks:

<table>
<thead>
<tr>
<th>Athletics Generated Revenue as % of Total Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Hawai‘i</td>
</tr>
<tr>
<td>Big West</td>
</tr>
<tr>
<td>Mountain West</td>
</tr>
<tr>
<td>Group of 5</td>
</tr>
</tbody>
</table>

UH Athletics has increased fundraising. As reported by UH Foundation as funds received for UH Athletics:

<table>
<thead>
<tr>
<th>Funds Raised</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$3,084,177</td>
<td>$4,311,431</td>
<td>$7,713,525</td>
</tr>
</tbody>
</table>

UH Athletics has, for the first time, engaged partners for significant long term commitments for naming rights of facilities:

- **Boyd Gaming** - $450,000
- **Mike Kawazoe** $1,000,000
- **Bank of Hawai‘i** - $5,000,000
- **Waterhouse Foundation** $1,000,000+

Since football “seat premiums” are a significant source of contributions for all schools, UH Athletics’ future fundraising will be particularly challenged by the lack of a full-sized stadium with “stadium” level capacity and amenities.
MEMORANDUM

TO: Randy Moore  
   Chair, University of Hawai‘i Board of Regents  

FROM: Kendra T. Oishi  
       Executive Administrator and Secretary of the Board of Regents  

SUBJECT: Regent Survey of Possible Retreat and Board Education and Development Topics  

BACKGROUND  

During the December 2, 2021, meeting of the Committee on Personnel Affairs and Board Governance, a list of possible topics for a board retreat and for board education and development was circulated and discussed. There was general agreement among committee members that a retreat should take place as soon as practical. 

Pursuant to the committee discussion, the Office of the Board of Regents subsequently circulated the list of topics to all regents to rate each topic on the list as high, medium, or low priority. The results of the survey are included in the attachment, and a few highlights are noted below.  

SURVEY RESULTS  

The top "high" items receiving 6 or more votes, roughly in order of priority are:  

- Leadership succession planning and process, both administrative and board (committee topic)  
- UH mission and vision (retreat topic)  
- Budget primer (committee topic)  
- National “reimagining” trends; emerging from pandemic (retreat topic)  

The top “medium” items receiving 6 or more votes, roughly in order of priority are:  

- Demographic trends nationally and locally for students (retreat topic)  
- Hawaiian place of learning (retreat topic)  
- Monetizing real estate (committee topic)  
- UH comparison to peers in degree/certificate perseverance (committee topic)  
- State support for higher education: how does Hawai‘i stack up? (retreat topic)
• UH Foundation: how is its work coordinated with UH needs and how should UHF be funded? (*board education and development topic*)

Other notable ratings:

• 10 Regents rated the following either high or medium:
  o What does an indigenous-serving university look like? How does UH measure up? (*retreat topic*)
  o What is the board's role in assuring the quality of teaching and learning? (*committee topic*)

• 9 Regents rated the following either high or medium:
  o Tuition and affordability primer (*board education and development topic*)
  o What are equity gaps and how do we close them? (*committee topic*)

• 8 Regents rated the following either high or medium:
  o Online education within UH and by competitors (*retreat topic*)
  o What does student success look like? How do we know it is happening? (*retreat topic*)
  o Autonomy for UH – what does it mean? (*retreat topic*)
  o What does it mean for the regents to have fiduciary responsibility? (*board education and development topic*)
  o Overall structure of UH and the scope of the major areas. One unified system. How can the structure be streamlined? (*board education and development topic*)
  o Review of shared governance (*board education and development topic*)
  o Board self-evaluation, including the use of permitted interaction groups and the development of board agendas (*board education and development topic*)
  o What kind of professional development is provided to leadership/management/supervisors? (*committee topic*)

Attachment
### Topics for Retreat

<table>
<thead>
<tr>
<th>Topic</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>National &quot;reimagining&quot; trends; emerging from the pandemic</td>
<td>6</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Demographic trends nationally and locally for students</td>
<td>3</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Online education, within UH and by competitors. Cost and quality.</td>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>How do we compare to other online for-profit and nonprofit players?</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>What are our obligations and niches, and where should we compete?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State support for higher education: how does Hawaii stack up?</td>
<td>2</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Accelerated programs; e.g. 3-year bachelor's, 4-year MBA, 5-year JD, 6-year MD</td>
<td>2</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Where in their educational journey is a student expected to learn</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>life skills (buy a car, invest, rent a house, marry, divorce, fix a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>toilet, self-care.)?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The UH mission and vision - where are we going and why? Need for</td>
<td>8</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>a common understanding of terms.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>What does student success look like? How do we know it is</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>happening?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>What does an indigenous-serving university look like? How does UH</td>
<td>5</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>measure up?</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>What does UH mean when it says it is a Hawaiian place of learning?</td>
<td>5</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>What evidence shows that it is? What should UH look like in 10 years</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>as a Hawaiian place of learning? What needs to be done differently</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to get there?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Should UH also strive to be a cosmopolitan place of learning - a</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>global center for learning?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autonomy for UH - what does it mean?</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>External communications</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Disaster planning - for the institution and for individual</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

### Topics for Board Education and Development

<table>
<thead>
<tr>
<th>Topic</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Hawaii Foundation: how is its work coordinated with</td>
<td>1</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>UH needs, and how should UHF be funded?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>What does it mean for the regents to have fiduciary responsibility?</td>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BOR committee structure and frequency of committee meetings</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Overview of the overall structure of UH and the scope of the major</td>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>areas: one unified system - academic strategy, administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(facilities, HR), budget and finance, community college system,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>information technology, research and innovation. How can the</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>structure be streamlined?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review of shared governance at UH and R.P.1.210</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>
### BOR Retreat and Board Education and Development Poll Results

<table>
<thead>
<tr>
<th></th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Tuition and affordability primer. The regents have not made a tuition decision for several years, but the time will come when they will need to</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>21</td>
<td>Financial aid - sources and selection of recipients. What place does merit aid have?</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>22</td>
<td>Board self-evaluation (how should the board assess its own performance?), including evaluation of the use of PIGs and the development of board agendas</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

### Topics for Subject Matter Committee

<table>
<thead>
<tr>
<th></th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Monetizing real estate - L/T projections by project. Where does the start-up capital come from?</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>24</td>
<td>Budget primer. UH budget and financial reporting are complex</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>25</td>
<td>How does UH compare to peers and the best in getting students to persevere to a degree or certificate?</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>26</td>
<td>Intramural vs intercollegiate athletics</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>What are equity gaps, and how do we close them?</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>What is the board's role in assuring the quality of teaching and learning?</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>29</td>
<td>What kind of professional development do we provide to leadership/management/supervisory responsibilities?</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>30</td>
<td>Leadership succession planning and process, both administrative and board</td>
<td>9</td>
<td>2</td>
</tr>
</tbody>
</table>

*Zero/null, 6+ high rank, 6+ medium rank, 6+ low rank*
Item VII.

Executive Session

ITEM TO BE DISCUSSED IN EXECUTIVE SESSION