UNIVERSITY of HAWAI'I SYSTEM

Michael Gonsalves <mlgonsal@hawaii.edu>

Fwd: ATMO Dept Seminar Series, Wednesday, 09/25/2024, at 3:30 PM in MSB 100

1 message

Department of Atmospheric Sciences <metdept@hawaii.edu> Tue, Sep 17, 2024 at 4:39 PM
To: Department of Atmospheric Sciences <atmo.dept@hawaii.edu>

Please join us for a Fall seminar in Atmospheric Sciences. It will be hybrid (in-person and online) in MSB 100 and via Zoom for remote attendance.

When: Wednesday, Sepember 25, 2024, at 3:30PM HST
Where: MSB 100 (Marine Sciences Building, UH Manoa Campus) and Zoom

Zoom Invitation Link: https://hawaii.zoom.us/j/94517824033
Meeting ID: 945 1782 4033
Passcode: 941064

Future Climate Change Impact on Wildfire Danger over the Mediterranean

Dr. Anastasios Rovithakis
Postdoctoral Researcher
Convection, Clouds, and Extremes Lab
Department of Atmospheric Sciences
University of Hawaii at Manoa

ABSTRACT

This presentation examines the impact of climate change on wildfire danger focusing over Greece through meteorological analysis and modeling techniques. It highlights the projected increase in fire risk, particularly in high-risk areas, and the potential for longer fire seasons under more severe climate scenarios. Using models like WRF-Chem and JULES-INFERNO the mechanisms of how wildfire aerosols affect the short-term weather and how changing vegetation dynamics influence future burned areas were explored. The presentation underscores the importance of integrating climate models, satellite data, and adaptive management strategies to address the growing wildfire threats and mitigate their effects on ecosystems, human health, and the economy.

BIO

Anastasios Rovithakis is a postdoctoral researcher working with Dr. Torri at UH Manoa. He got his Ph.D. from the Technical University of Crete, in Greece. His research is focused on performing statistical analysis on future wildfire danger using the Canadian Fire Weather Index as well as atmospheric modeling with WRF-Chem to see the effects of wildfires in short-term weather. He has also developed a methodology for accurately and automatically selecting smoke plumes from satellites and checked the effects of future vegetation on burnt area with output from a land surface model.*As a security precaution, unmuting microphones, starting video, screen share, and using the 'chat' feature will be disabled for those attending the seminar, except for ATMO faculty. If you would like to say something, please use the 'raise hand' feature. The host or a co-host can then enable you to unmute your microphone.*

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