



TWELFTH ANNUAL
Ocean Day 2007

The Impact of Invasive Species

**Wednesday, June 6, 2007
1:00-5:00 p.m.**

**NOAA's Hawaiian Islands
Humpback Whale
National Marine Sanctuary
Hawaii Kai Corporate Plaza
6600 Kalaniana'ole Highway
3rd Floor**



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Presented by



PROGRAM

1:00-4:00 p.m.

MODERATOR

Tony Montgomery,
Ocean Day Chair

WELCOMING REMARKS

MAYOR'S PROCLAMATION

Keith Rollman

SPEAKERS

Tony Montgomery, Department of Land and Natural Resources, Convener

Lu Eldredge, Bishop Museum

"An overview of the introduced and cryptogenic marine and estuarine species in Hawaii"

A brief discussion of the numbers, pathways, origins, impacts of the introduced and rypogenic species in Hawaiian waters. Some selected species interactions will be noted.

Scott Godwin, University of Hawaii, Hawaii Institute of Marine Biology

"Minimizing the Exposure of the Northwestern Hawaiian Islands Marine National Monument to Marine Alien Species"

Celia Smith, University of Hawaii Botany

"Where did our limu go? Introductions of alien algae and their impacts in Hawaii"

Our native flora has over 500 species of marine algae, yet only a handful of alien species have caused dramatic and negative changes. Is there hope for our coasts?

Brian Parscal, University of Hawaii Botany

"Design and Construction of the Super Sucker Barges"

When this group first started thinking about mechanical removal of alien algae in Kaneohe Bay we knew only two things for certain. We knew we wanted to remove the algae from the Kaneohe Bay and we knew we didn't want to harm the reef in the process. Beyond that, we were entering uncharted waters, we couldn't find anyone in the environmental community who has attempted anything like this. It was our good fortune that we had a group of very talented people determined to see this happen and we had a tremendous amount of support from the local community. The development of these barges was full of challenges and we learned some painful lessons in the process, but in the end, we have established mechanical removal as a viable tool in the control of invasive alien algae in Hawaii.

Alison Sherwood, University of Hawaii Botany

"Using molecular markers to assess the Hawaiian algal flora"

This work outlines several of the ongoing projects in the Sherwood lab that employ molecular techniques to gain a better understanding of the diversity of Hawaiian algae at the levels of the population, species, and flora. Several different approaches are used, including comparisons of DNA sequences and microsatellite analyses, to assess the degree of relatedness between collections.

Rob Toonen, University of Hawaii, Hawaii Institute of Marine Biology

*"Genetic detective work: From where did the snowflake coral *Carijoa riisei* invade Hawaii?"*

I will discuss the evidence for a recent maritime introduction of *C. riisei* from the Caribbean, and explain how we can use genetic evidence to refute that hypothesis. I will also show the evidence that the genus *Carijoa* is native to the Pacific, that the taxonomic status of the group is in desperate need of revision, and that Hawaii has most likely been colonized multiple times from several Pacific origins rather than at any point from the Atlantic.

Round Table Discussion

CLOSING REMARKS

4:00-5:00 p.m. Reception (Light Pupus)
(Close at 5:00 p.m.)

Special Thanks to the following:

Ms. Elizabeth Corbin

Mr. Tony Montgomery

*NOAA's Hawaiian Islands Humpback Whale
National Marine Sanctuary*

HRS 8-12. The first Wednesday of June shall be known and designated as Ocean Day, in recognition of the very significant role the ocean plays in the lives of Hawaii's people, as well as Hawaii's culture, history, and traditions. This day is not and shall not be construed as a state holiday.