



2. OLA I KE KAI O KANALOA

Ocean Resources Management Program

June to Oct. 2013

Ongoing Projects

Field Surveys

Staff participated in the tagging of the second monk seal pup of the year with a representative from NOAA. The 9 week old male pup was tagged on Sept. 3 at Pu'u Tahiti with tag numbers RW 50 and RW 51. Under the supervision of NOAA staff a bleach marking (W50) was applied to help identify it from a distance. This is the first year multiple pup births have been recorded on Kaho'olawe.

The Lahainaluna class of '62 access was held Aug. 6-9. Volunteers assisted with marine debris removal/sorting, Base Camp storage clean up and relocating a conex as well as with the helu i'a project. A total of 10 fish were tagged, 1 moi, 1 o'io, 1 nenu and 7 'omilu.

Honokanai'a Mooring Installation

On June 18, three moorings were rigged and installed in Honokanai'a in preparation for the Lee 'ohana access on July 4 to 5.

UH Hilo Intern

The Ocean Program hosted an intern from UH Hilo through the Pacific Internship Programs for Exploring Science (PIPES) program. Emily Cadiz of Mililani is attending UH Hilo and is scheduled to graduate in the spring of 2014 with a B.S. in Marine Science and a minor in Hawaiian Studies. During her 10 week (June-Aug.) internship she assisted in all aspects of marine management including field surveys (HCF timed swims), office data entry (aerial survey data), outreach and education (assisting with volunteer groups).



Jen bleaches the newest monk seal pup @ Pu'u Tahiti



Lahainaluna c/o '62 organized, cleaned and sorted conex storage



UH Hilo PIPES intern Emily Cadiz



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Hawaii Community Foundation (HCF)

Approximately 100 hours were spent between June and October in the survey/analysis process and removal efforts of the non native fish targets. A total of 340 lbs of the 500 lbs requirement of Roi, To'au and Ta'ape have been selectively removed from the reefs of Honokanai'a. Staff have also had the opportunity to train community members and school groups on how to conduct in water survey methods, fish size classing as well as fish identification through this grant. Staff is also conducting gut analysis of the non native fish to assess their dietary impact on the native fish stocks both in relation to competition as well as predation. Additionally, this grant has helped staff to provide outreach and education to volunteer groups about the impacts that non native species can have on the local environment.



Left Top: Volunteer Dean Kawamura conducts a fish abundance survey prior to removal efforts in Honokanai'a. **Left Mid:** Reef restoration is conducted with the removal of the non native Roi, To'au and Ta'ape. **Left Bottom:** A native 'upāpalu (*Pristiapogon spp.*) is found in the mouth of a Roi during the gut analysis process. **Right:** A sample of some of the Roi removed from Honokanai'a in September.



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Department of Health (DOH) III

On September 18th, Ocean Program staff assisted in the retrieval and re-deployment of nine DOH III sediment tubes. At each site (Kuikui, Hakioawa Iki and Hakioawa) three tubes were capped, removed, taken to the surface and replaced with a new collection tube. Biofouling and algal growth was at a minimal level at contact points making replacement uncomplicated. All diving was done utilizing SCUBA.



The original tube is capped and removed



Lopaka (safety swimmer) surfaces with original tube



Jen secures the new tube to weighted footing

NOAA Marine Debris Grant

As part of the NOAA marine debris grant, program staff hiked to Puhianenu on October 9th with 16 volunteers from Queen Lili'uokalani Children Center (QLCC) Maui and Leilehua High School. Once at the bay debris was sorted, bagged and stockpiled for later removal when helicopter transport is available. Approximately 1,700 pounds of debris was removed from the shoreline. The trail taken to the bay had been previously cleared and marked by Bart and Jen.



Volunteers @ Puhianenu help remove marine debris



Approximately 1,700 lbs of debris collected