



Kaho'olawe Island Reserve Commission

2. OLA I KE KAI O KANALOA

Ocean Resources Management Program

Oct. 2015-Nov. 2015

On Island Field Surveys

ADCP Sentinel V Retrieval

• In October, staff dove off the southern point of Honokanai'a to retrieve the ADCP sentinel V that had been in the water for over 6 months collecting data. The ADCP Sentinel V is an underwater wave and current recorder that will collect data on the strength and power of water movement in the location. This preliminary study is looking into the potential to convert wave energy into a power source for Base Camp in the future. On shore, a weather station was installed to correlate the marine data with weather patterns. The data will be made available to the KIRC once analysis is completed by UH's School of Ocean & Earth Science students.



Left: Diver Grant Thompson removes the ADCP from its mount in Honokanai'a



Right: Once secured on board the 'Ōhua, Grant poses with the ADCP sentinel.

In Water Survey of Honokanai'a Reef & Monk Seal Pup Survey

• Staff conducted in water surveys of Honokanai'a reef on Oct. 8th to monitor the extent of coral bleaching. The amount of affected coral has spread to nearly 100% of cauliflower coral in the bay. As alarming as this is, it is consistent with many reefs around the State. Staff also hiked out to Laepakī to check on the status of the newest Monk Seal pup born in Sept. The pup had weaned off of its mother (RV16) and looked in good health, thus tagging of the pup can be planned.



Left: Example of both cauliflower and rice coral bleaching. Right: A close up of a bleached cauliflower coral





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Monk Seal Pup Tagging

- Working with a representative from NOAA, staff conducted the tagging of the newest monk seal pup at Laepakī. The male seal was out fitted with red tag #numbers G34 & G35, statistics such length and girth were collected along with implantation of a microchip PIT tag (Passive Integrated Transponder). Along with the tagged pup, 3 other adult seals were bleached and marked for distance identification.



**Top: Staff bleach marks an adult seal
Bottom: NOAA staff documents an unknown seal**



Above: Newly bleached seal (W00) @ Laepakī has tag #8HE



Above: Volunteer Mark Sullivan poses with two Roi removed from the Kealaikahiki area.

HGF Non-Native Fish Removal and Analysis

- In the month of November three dives were conducted in the Kealaikahiki 'Ili for the purpose of removing non-native fish for the HCF grant obligation. The dives produced 167 invasive fish totaling 140.5 pounds. With this addition the grant obligation of 500 pounds has been surpassed Over the 12 month grant period 507 individual fish and 573.5 pounds of invasive biomass has been removed. All fish collected were dissected to gather information on diet, spawning and growth rates.