

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT**

**DIVE: P5-763**

**MISSION STATUS**

**Location:** Au'au Channel, South of Maui, Hawaii

**Latitude:** 20° 46.717N

**Longitude:** 156° 40.567W

**Mission Date:** 9 March 2011

**Duration:** 7 hours 44 mins

**Maximum Depth:** 109 m

**Project Title:** CRES 2007: Investigating Deep (50-100 m) Coral Reefs in Hawai'i

**Principal Investigator:** Richard Pyle

**Address:**

Natural Sciences Department  
Bishop Museum  
1525 Bernice Street  
Honolulu, Hawaii 96817

**Phone:** (808) 983-5716

**Observer 1:** Ray Boland

**Observer 2:** Derek Skillings

**Address:** National Marine Fisheries Service  
PIFSC/EOD  
2570 Dole St.  
Honolulu, HI 96822

**Address:** Hawaii Institute of Marine Bio  
P.O. Box 1346  
Kaneohe, HI. 96744

**Pilot 1:** Max Cremer

**Pilot 2:** None

**Scientific Data Acquired:** Prepare an abstract outlining your objectives, techniques, findings, etc.

**Objectives:** The primary goal of this dive was to assist the divers in recovery of the *Leptoseris* samples used in the isotope experiment and to mark a site for the divers to survey. Secondary goals were to conduct fish transects at 85 m and to collect echinoderms.

**Observations, findings, etc:**

The divers elected to conduct only one dive at the isotope experiment site to recover the samples. The sub arrived at the site to find a very strong down slope current at the site. The sub set the anchor and downline buoy onsite but did not deploy it. Divers elected to wait till the current diminished. Sub conducted one 15 minute fish transect at 85 m that was interrupted sporadically by echinoderm collections. At the request of divers sub returned to isotope experiment site to

monitor current which had still not abated. Sub was instructed to recover samples. During positioning to recover samples, current abated and divers elected to recover the samples. Sub then conducted a 20 minute fish transect at 85 m and echinoderm collections. The conditions were favorable for these surveys and collections and the sub pilot and Pisces V worked flawlessly.

**Species list:**

Invertebrates:

1 *Stichopus* sp.

7 *Actinopyge obesa*

6 *Lissocarcinus orbicularis*

10 *Pseudoboletia indiana*

8 *Acanthaster plani* arms

1 *Leptoseris yabei*

**MISSION EVALUATION:**

**Limitations, failures, or operational problems noted:**

No limitations, failures or operational problems were encountered.

**Recommendations for corrective action or improvement:**

None necessary.

**In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished.**

The mission was a success. All primary objectives were met.

**List specimens or samples collected on the mission.**

Collected:

Invertebrates:

1 *Stichopus* sp.

7 *Actinopyge obesa*

6 *Lissocarcinus orbicularis*

10 *Pseudoboletia indiana*

8 *Acanthaster plani* arms

1 *Leptoseris yabei*

## DATA RELEASE

Data may be retained by the project leader for up to 2 years after the mission date with the following exception. NOAA may request to use photos for publication or publicity purposes at any time.

Fill in the appropriate statement below and sign this form.

I hereby release the data archived by HURL for public consumption following mission (project title)

CRES 2007: Investigating Deep (50-100 m) Coral Reefs in Hawai'i

held on 9 March 2011 (date) in the following way:

- a. CTD data by 9 March 2013 (date)
- b. video and images by 9 March 2013 (date)
- c. other 9 March 2013 (date)
- d. I will give my written consent to individuals wishing to use these data prior to the above dates depending on the nature of the request(s).

Ray Boland Principal Investigator