

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT

DIVE: P5-762

MISSION STATUS

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

Latitude: 20° 46.934N

Longitude: 156° 40.438W

Mission Date: 8 March 2011

Duration: 8 hours 0 mins

Maximum Depth: 150 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: Frank Parrish

Observer 2: John Rooney

Address: National Marine Fisheries Service
2570 Dole St.
Honolulu, HI 96822

Address: Same

Pilot 1: Terry Kerby

Pilot 2: None

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

Objectives:

Dive was divided between conducting visual surveys of fish in association with leptoseris reef structure (Boland work) and using a dome and stain to mark a coral colony to estimate growth (Rooney work - Primary mission).

Observations, findings, etc:

One colony of *Leptoseris hawaiiiana* was marked with the stain. Three fish transects were conducted. Two along the contour, one at 110 m and the other at 100 m, both for 20 mins. The third was across contour. Additional counts were conducted during the transit from the end of the third transect back to the coral staining station. The last hour of the dive was spent collecting invertebrates for genetic work.

Observed Species list:

Following fish were seen on the transect. Often the wrong name was used to identify so here I list the actual taxa seen and the incorrect name recorded by audio in brackets ().

Centropyge potteri

Chromis leucura

Chromis verator

Cirrhilabus jordani (Flame wrasse)

Pseudocheilinus evanidus

Canthigaster rivulata

Canthigaster coronota

Mypristes Chryseres (may have call this some other *Mypristes* sp.)

Sargocentron ensifer

Parupenenus multifaciatus

Parupenenus chrysonemus

Cheatodon milliaris

Cheatodon kleinii

Cheatodon fremblii

Cheatodon multicinctus

Forcipiger sp. (nawiliwili)

Lutjanus kasmira

Pseudoanthias hawaiiensis

Naso hexacanthus

Xanthichthys mento

Parapercus schauinslandi

Aluterus scriptus

Sufflamen fraenatum

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

None.

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

Objectives were met.

List specimens or samples collected on the mission.

Small DNA sample taken from specimens and then returned alive.

Parupeneus chrysonemus

Cheatodon milliaris

Cheatodon kleinii

Cheatodon fremblii

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 6 March 2011 (date) in the following way:

- a. CTD data by 6 March 2013 (date)
- b. video and images by 6 March 2013 (date)
- c. other 6 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