

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-202

MISSION STATUS

Mission Date: 10-31-02

Location (island, bank, seamount, etc): Makapuu, Oahu

Specific Site (NE side, summit, etc): Makapuu, Oahu

Position (start latitude & longitude): 21°20.200 157°34.125

Depth range: 498-608 m

Project Title: Effectiveness of refugia on bottomfish stocks

Principal Investigator: Robert Moffitt

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Observer 2: Jane Culp
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Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Materials & Methods:

The main objective of this study is to complete an evaluation of the effectiveness of DLNR's bottomfish management plan. This is being accomplished with follow-up submersible surveys to our 1998 and 1999 studies, which provided baseline data on densities of onaga and ehu in two refugia and two adjacent control areas. ROV dive objectives are to characterize habitats at and near the study sites. This is being accomplished by conducting videosurveys during which all fish and invertebrate species encountered are recorded along with substrate and depth information.

Scientific data acquired:

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Synagrops argyrea	Notododaris sp.	Bathyalcyon sp.?
Lophoides miacanthus	Phormosoma bursarium	hormathiid sp.
Chrionema chryseres	Benthescymus laciniatus	pennatulid
Hymenocephalus sp.	Heterocarpus ensifer	Farrea sp.
congrid	Heterocarpus laevigatus	Metalogorgia melanotrichos
Ventrofossa sp.?	shrimp	Corallium sp.
Nezumia sp.?	Paramunida hawaiiensis	tubularid
Coelorhynchus aratum	urchin	Candidella helminthopora
macrourid – white dorsal	Nematocarcinus tenuirostris	chrysogorgiid
macrourid – black tail	brisingid	pennatulid
Uroconger lepturus?	seastar	alcyonacean
macrourid	crinoid	Regadrella sp. 1
squalid	crinoid - black	Gardinaria sp.
	urchin - white	gorgonian
		anemone

The habitat for this dive was a sediment dusted carbonate and fine sediment with small carbonate outcrops. No bottomfish were seen.

MISSION EVALUATION:

Limitations, failures, or operational problems noted: none

Recommendations for corrective action or improvement:

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

Yes. Information on an area that had not been previously surveyed was obtained. Very good images were obtained of some species for which better images were needed.

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 **RCV-198** held on 10-29-02.

- a. CTD data by 10-29-04
- b. video data by 10-29-04
- c. other _____ (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).

_____ Principal Investigator