

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-210

MISSION STATUS

Mission Date: 11-04-02

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

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

Position (start latitude & longitude): 21°17.000'N 157°32.750'W

Depth range: 338-424 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
Chlorophthalmus japonica	Gastroptyctus	Acanella dispar
Chlorophthalmus proridens	Ophiurioid	Gorgonian
Nezumia hebatatus	Mediaster ornatus	Paramuricid blue
Coelorhynchus spilonotus	Eumunida sp	Paragorgia sp
Bembradium roseum	Sphaeriodiscus ammophilus	Lepidisis olapa
Holardia goslinei	Astroceramus	Eunicella sp
Grammicolepis brachisculus	Pseudomunida sp ?	Bathypathes conferta
Polymixia japonica	Hippasteria imperialis	Callogorgia formosa
Nettastoma parviceps ?	galatheid	Narella sp 1
Chrionema chryseres	Heterocarpus ensifer	Parazoanthus sp 2
		Paramuricid tan
		Bebryce brunea
		anemone
		Calyptrophora verslusi
		Narella megalepis
		sponge cup
		Acanthogorgia striata
		Corallium regale
		Thouarella hilgendorfi
		Bathypathes patula
		sponge white
		Anthomastis sp
		Corallium secundum
		Alcyonacean red
		Leiopathes glaberrima
		sponge vase
		Chrysogorgia stellata
		Dictaulus sp

The habitat for this dive was bedded limestone with a light sediment dusting, a few areas with manganese crust and broken plates. 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-210** held on 11-04-02.

- a. CTD data by 11-04-04
- b. video data by 11-04-04
- 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