

**HAWAII UNDERSEA RESEARCH LABORATORY**  
**QUICK LOOK REPORT MISSION NO. RCV-203**

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°2 157°

**Depth range:** 519-636 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.**

<b>FISHES</b>	<b>ECHINODERMS, CRUSTACEANS, &amp; MOLLUSKS</b>	<b>CORALS, SPONGES &amp; OTHER INVERTS</b>
macrourid	Phormosoma bursarium	pennatulid
Chlorophthalmus prouridens	Ophiuroid	Sericolophus hawaiiicus
Uroconger lepturus?	Heterocarpus laevigatus	anemone
Setarches guentheri	urchin - white	Paramuricid blue
macrourid – long dorsal	Stereocidaris hawaiiensis	Chrysogorgiid
Nezumia sp.?	urchin	Calyptrophora sp
Gadomus melanopterus	Nematocarcinus tenuirostris	Narella sp
Bathycongrus aequoreus	Histocidaris variabilis	Metalogorgia melanotrichos
Beryx decadactylus	Parapagurus dollfleini	Paramuricid yellow
Malacocephalus sp.	Gorgonocephalid	Ennallopsammia rostrata
Ventrofossa atherodon	Pleurobranchid	Red short cnidarian
Gempylid	seastar	Leiopathes glaberrima
Centrophorus sp ?	Galatheid	Sponge cup
eel	Aspidodiadema sp. ?	Chrysogorgia geniculata
ophichthid	Gastropod mollusc	sponge – stalked white
	crinoid – Antedon yellow ?	sponge – ribbon white
	Henricia ?	Bolocera
	Gastroptychus sp	Corallium regale
	brisingid - yellow	Antipathes subpinnata
		Antipathes sp.
		Lepidisis olopa
		hormathiid sp.
		Callogorgia gilberti
		Regadrella sp
		Cnidarian yellow
		Calibelemnon symmetricum
		Anthomastus sp.
		Stylobates aenus

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-203** held on 10-31-02.

- a. CTD data by 10-31-04
- b. video data by 10-31-04
- 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