

**HAWAII UNDERSEA RESEARCH LABORATORY**  
**QUICK LOOK REPORT MISSION NO. RCV-207**

MISSION STATUS

**Mission Date:** 11-02-02

**Location (island, bank, seamount, etc):** Lanikai, Oahu

**Specific Site (NE side, summit, etc):** Lanikai, Oahu

**Position (start latitude & longitude):** 21° 157°

**Depth range:** 669-732 m

**Project Title:** Effectiveness of refugia on bottomfish stocks

**Principal Investigator:** Robert Moffitt

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**Observer 1:** 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>
Congrid	Aspidodiadema sp	Narella sp 1
macrourid	Plesionika sp	Regadrella sp 1
Bathycongrus aequorus	Asthenactis papyraceus	dendrophyllid yellow
Nettastoma sp	Homolid	Farrea sp.
Hymenocephalus sp	Lithodes nintokuae	Chrysogorgia geniculata
fish	urchin	Actinostolid
myctophid	Chirostylid	Anthomastus sp.
Coryphaenoides longicirrus	ophiuroid	Isidella sp 1 ?
Ophidiid	seastar	sponge
Uroconger lepturus	seastar spiked cushion	Chrysogorgia stellata
Coelorhynchus aratum	Heterocarpus laevigatus	Paramuricid gold ?
	crab	chrysogorgiid - yellow
	shrimp	sponge ribbon
	Hipasteria sp	Semprella sp 2
	galatheid	Metalogorgia melanotrichos
	Munida sp	sponge stalked
	shrimp red	sponge fringed
	Mediaster ornatus	Iridogorgia cattail
		Brisingid
		sponge vase
		Regadrella sp 3
		Coralimorphus sp
		Caulphacus sp 3
		gorgonian lavender
		Farrea occa

The habitat for this dive was bedded limestone with a manganese crust and a light sediment dusting, large broken plates of the above, and pillow lava flows covering portions of the carbonate. 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-207** held on 11-02-02.

- a. CTD data by 11-02-04
- b. video data by 11-02-04
- 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