

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-191

MISSION STATUS

Mission Date: 10-25-02

Location (island, bank, seamount, etc): Molokai

Specific Site (NE side, summit, etc): Penguin Banks, RFA9

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

Depth range: 246-514 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
Pontinus macrocephalus	Acanthocidaris hastigera	Leiopathes glaberrima
Scorpaenid	Crinoid	Antipathes sp 1
Antigonia sp	Plesionika sp	Bathypathes conferta
Laemonema rhodochir	Shrimp	Antipathes sp
Carapid	Crab	Cirripathes spiralis
eel	Ophiuroid	Calyprophora clarki
Polymixia japonica	Stylocidaris calacantha	Gooseneck barnacles
Epigonus sp	Plesionika pacifica	Eguchipsammia sp
Beryx decadactylus	Seastar	Sponge
Chrionema chryseres	Histocidaris variabilis	Anemone light gray
Symphysanodon maunaloae	Henricia ?	Barnacles on H. variabilis
Congrid	Caenopedina pulchella	Pennatulid
Ventrifossa ?	Sphaeriodiscus ammophilus	Annelid
Macrourid	Mediaster ornatus	
Caelorinchus auratum?		

The habitat for most of the dive was a hard carbonate substrate with a light sediment cover. Antipatharians were plentiful. Depths deeper than 500 m on the northeast of the pinnacle was bedform sand. No bottomfish species were seen on this dive.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

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-191** held on 10-25-02.

- a. CTD data by 10-25-04
- b. video data by 10-25-04
- 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