

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-196

MISSION STATUS

Mission Date: 10-29-02 & 10-30-02

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

Specific Site (NE side, summit, etc): Penguin Banks, south of 2nd Finger

Position (start latitude & longitude): 20°56.85 157°23.83

Depth range: 170-380 m

Project Title: Effectiveness of refugia on bottomfish stocks

Principal Investigator: Robert Moffitt

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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
Epigonus sp	shrimp	cnidarian
Epigonus golssodontis	Mediaster ornatus?	Regadrella sp
macrourid	Stylocidaris calacantha	Gardinaria sp.
Grammicolepis brachisculus	Plesionika pacifica	hexactinellid
scorpaenid	seastar	Antipathes sp. 1
Beryx decadactylus	Anseropoda insignis	zoanthid
Setarches guentheri	Stereocidaris hawaiiensis	barnacle
Hollardia goslinei	Heterocarpus ensifer	plurobranchid
Chaunax umbrinus	pagurid	Bathypathes conferta
Pontinus macrocephalus	seastar	Cirripathes spiralis
Laemonema rhodochir	Sphaeriodiscus ammophilus	Callogorgia formosa
Antigonis sp	Plesionika edwardsii	Scleractinean polyp
Emmelichthys struhsakeri	Caenopedina pulchella	Nemanthes sp.
Emmelichthys karneli	shrimp	Antipathes ulex?
Chrionema chryseres	Histocidaris variabilis	Corallium secundum
Selar crumenophthalmus		Anthomastus sp.
Casconepsetta prorigera		Antipathes sp.
Symphysanoson maunaloae		Boloceera sp.
Bembradium roseum		Bathypathes patula
Synagrops argyrea		Leiopathes glaberrima
Arioma luridum		Gerardia sp.
Chaunax umbrinus		cerianthid
Symphysanodon maunaloae		
macrourid		
Polymixcia japonica		
Physiculus rhodopinnis		
bothid		
Lophoides miacanthus		
nettastomatid		
Chlorophthalmus proridens		
Meadia abyssalis		
Ventrofossa atherodon?		

The habitat for most of the dive was a hard carbonate substrate with light to moderate sediment cover. No bottomfish were seen. *Beryx decadactylus* were very abundant.

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