

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-190

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: 228-394 m

Project Title: Effectiveness of refugia on bottomfish stocks

Principal Investigator: Robert Moffitt

Address: NOAA Fisheries
2570 Dole St, Honolulu, HI 96822

Phone: 983-5373

Observer 1: Robert Moffitt
Address: NOAA Fisheries
2570 Dole Street
Honolulu, HI 96822

Observer 2: Jane Culp
Address: Hawaii Undersea Research
Laboratory, 1000 Pope Rd, University of
Hawaii, Honolulu, HI 96822

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
Cookeolus japonicus	Antedon yellow	Cirripathes spiralis
Squalus mitsukurii	Anseropoda insignis	Narella sp
Lutjanid	Crinoid	Sponge
Antigonia sp	Stylocidaris calacantha	Antipathes sp 1
Pontinus macrocephalus	bivalve	Calyptophora clarki
Etelis carbunculus	shrimp	Nemanthus sp
Trichiurid	Plesionika martia	Eguchipsammia sp
Symphysanodon maunaloae	Paromola japonica	Farrea sp
eel	Coronaster eclipses	Bolocera
Etelis coruscans	Caenopedina pulchella	Bathypathes conferta
Physiculus		
Beryx decadactylus		
Conger oligoporus		
Polymixia japonica		
Polymixia berndti		
Pyramodon ventralis		
Emmelichthys karnellae		
Emmelichthys struhsakeri		
Arriomma luridum		
Epigonus devaneyi		

The habitat at the southwestern edge of the pinnacle at depths of 245-290 m was a hard carbonate substrate with a dense forest of *Cirripathes spiralis*. In amongst the wire corals were numerous *Antigonia*. Other corals, including *Narella sp* and *Antipathes sp 1*, were also mixed in with the *Cirripathes*. Several small ehu and a few small onaga were seen here. The substrate at the top of the pinnacle was covered with *Eguchipsammia sp*. *Emmelichthys sp.*, both *E. karnelli* and *E. struhsakeri*, were common here.

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. Many ehu and onaga were observed at this site. 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-190** 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