

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. RCV-195

MISSION STATUS

Mission Date: 10-28-02

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

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

Position (start latitude & longitude): 20° /157° .

Depth range: 197 - 398 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: Chris Kelley
Address: HURL

Observer 2: Jane Culp
Address: HURL

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:

Substrate was sediment with carbonate pebbles and cobbles to about 350 m. From 350 m deeper, sediment with algal debris, and sediment dunes at about 380 m.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
myctophid	Stylocidaris rufa	anemone large red
Physiculus sterops	Plesionika sp	Cirripathes spiralis
Roa excelsa	goniasterid	Sericolophus hawaiiicus
Erythrocles scintillans	Pinna muricata	
Seriola dumerili	Stylocidaris calacantha	
Emmelichthys karnellai	Holothuria cinerascens	
scorpaenid	Paramunida hawaiiensis	
Symphysanodon maunaloae		
Etelis carbunculus		
Conger oligoporus		
Physiculus rhodopinnis?		
Ariosoma marginatum		
Uroconger lepturus		
Gnathophis sp		
trichiurid		
Epigonus devaneyi		
Polymixia berndti		
congrid white		
Nettenchyles gephyra		
Chlorophthalmus proridens		
Chrionema chryseres		

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.

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-1** held on 10--02.

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