HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-193

MISSION STATUS

Mission Date: 10-28-02

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

Specific Site (NE side, summit, etc): Penguin Banks, tip of Third Finger.
Position (start latitude & longitude): 20° ./157° .
Depth range: 228 - 458 m

Project Title: Effectiveness of refugia on bottomfish stocks

Principal Investigator: Robert Moffitt

Address: NOAA Fisheries
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Phone: 983-5373

Observer 1: Walter Ikehara/Chris Kelley
Address: DAR/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 initially sediment covered bedded carbonate on the top of the pinnacle, ranging to sediment with carbonate cobbles, then steep carbonate slopes, then sediment with dead Sericolophus hawaiicus, then rippled sediment and sediment with cobbles. Numerous fishing lines, anchor ropes, and anchors were observed.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
myctophid	Stereocidaris hawaiiensis	Antipathes sp 1
Symphysanodon maunaloae	shrimp	Corallium tortuosum
Antigonia sp	holothurian	Corallium niveum
Etelis carbunculus	crinoid	Cirripathes spiralis
Polymixia berndti	pleurobranchid	Nemanthus sp
trichiurid	Stylocidaris calacantha	pennatulid
Pontinus macrocephalus	Randallia sp	Pennatula flava
Rexea nakamurai	Paramunida hawaiiensis	Calyptrophora clarki
Conger oligoporus	Heterocarpus sp	Calyptrophora japonica
carapid	Heterocarpus ensifer	Lyrocteis sp
ophichthid	heart urchin test	Seriocolophus hawaiicus
Polymixia japonica	Epizanthus?	
Chloropthalmus proridens		
Lophioides miacanthus		
Chrionema sp		
nettastomatid		

MISSION EVALUATION:

Limitations, failures, or operational problems noted: None

Recommendations for corrective action or improvement: None

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished.

Mission objectives 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