

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-199

MISSION STATUS

Mission Date: 10-30-02

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

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

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

Depth range: 470 - 678 m

Project Title: Effectiveness of refugia on bottomfish stocks

Principal Investigator: Robert Moffitt

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Observer 1: Walter Ikehara
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Observer 2: Chris Kelley
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:

The ROV descended on soft sediment at 678 m which persisted until about 633 m where isolated flat carbonate rock appeared. At 626 m, exposed isolated limestone outcrops appeared, eventually replaced by sediment covered limestone at around 555 m and bed/sc at 470 m at the end of the dive. A number of unidentified macrourid species were seen.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Nettasoma parviceps	Ophiuroid tan (or white?)	pennatulid brown
Ventrifossa?	White sea star	pennatulid new
macrourid (unid)	Nematocarcinus tenurostris	anemone cup
Bathytrogon	Paleopatides retifer	Metalogorgia w/filamentous algae and ophiuroids
silver macrourid	white holothurian	Regadrella sp
macrourid	Phormosoma bursarium	anemone red cup
Hymenocephalus sp?	pagurid	hormathiid
congrid	Parapagurus dofleini	anemone
macrourids	Heterocarpus laevigatus	scleractinian cup coral
	Aspidodiadema sp	ctenophore floating
	brisingid	Calligorgia dead
	holothurian	

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.

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-199** held on 10-30-02.

- a. CTD data by 10-30-04
- b. video data by 10-30-04
- 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