HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-172

MISSION STATUS

Mission Date: 09-14-02

Location (island, bank, seamount, etc): Raita Bank

Specific Site (NE side, summit, etc): SE side
Position (start latitude & longitude): 25° 26.400/169° 31.198
Depth range: 460-620 m

Project Title: Impact of Bottomfishing in the NWHI Coral Reef Ecosystem Reserve

Principal Investigator: Christopher Kelley

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Observer 1: Rachel Shackelford
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Observer 2: Bob Moffitt
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Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Materials & Methods:

The overall goal of this project is to obtain data on bottomfish populations and their habitat for use in evaluating the impacts of commercial fishing in the NWHI Coral Reef Ecosystem Reserve. This particular dive was conducted on Raita Bank. Specific dive objectives were to survey the fish and invertebrate community at or below a known fishing site. Particular attention was paid to corals and other attached invertebrates that would be vulnerable to damage from anchors and fishing weights. To accomplish this objective, the ROV was deployed along a track running through the site. Observers noted all fish, invertebrates, and fishing debris encountered.

Scientific data acquired:

The ROV was deployed at the maximum depth and was slowly towed upslope at an oblique angle. The terrain was steeply sloping carbonate covered with sand. The dive was terminated right before we got to a steep cliff that led up to the top of the bank.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Hymenocephalus sp.	Conus sp.	cnidarian tree
Satyrichthys hians	Heterocarpus laevigatus	red hydroid? or algae
Macrourid	Hormathiid on unkn. Gorg.	Iridogorgia sp.
Chascanopsetta prorigera?	anemone brown	Isidella sp?
Macrourid - black on dorsal	Penaeid shrimp	Regadrella sp.
Hoplostethus crassispinus	Heterocarpus ensifer	Bathypathes conferta
Malacocephalus hawaiiensis	Paramunida hawaiiensis	Corallium regale
Eel	Hormathiid sp6	Keratoisis sp.
Ventrifossa ctenomelas?	Gastroptychus sp	Callogorgia sp.
Morid	Corallimorphus sp.	Keratoisis sp 4
Hollardia goslinei	Eumunida sp.	Callogorgia gilberti?
Epigonus sp.	Ophiuroid	gorgonian red, w/ crab
Caelorinchus auratum	Plesionika pacifica	Corallium secundum
Epigonus glossodontus?		
Setarches guentheri		

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

When the pilots were bringing the ROV up toward the surface, they had a problem docking it back into its cage. The vehicle was not responding and one of the thrusters was stuck, pushing the vehicle down. They cut power to the vehicle and reeled it into the cage. The tether had to be re-terminated as there had been a break in the fibers.

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.
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-172 held on 09-14-02.

a. CTD data by 09-14-04

b. video data by 09-14-04

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