HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-182

MISSION STATUS

Mission Date: 09-27-02

Location (island, bank, seamount, etc): West St Rogatien Bank

Specific Site (NE side, summit, etc): NW side (heading NE)
Position (start latitude & longitude): 24° 37.452/167° 20.440
Depth range: 115-308 m

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

Principal Investigator: Christopher Kelley

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Observer 1: Frank Parrish
Address: NMFS

Observer 2: Rachel Shackelford
Address: HURL

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 W. St. Rogatien Bank. Specific dive objectives were to survey the fish and invertebrate community at 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 coordinates provided for the site. Observers noted all fish, invertebrates, and fishing debris encountered.

Scientific data acquired:
The terrain started out as flat sand covered with rhodoliths and green and red algae. Six kahala found the ROV shortly after the start of the transect and used the lights to hunt. Fish were scarce and the kahala managed to nail the few that were there. At about 157 m the sand turned to carbonate rock. By 200 m the terrain was sand and rock. Around 200 m the kahala gave up and left us. We started to see a few more fish shortly before the dive was terminated at 308 m.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Priacanthus meeki	Cerianthid sp.	Cirrhipathes spiralis
Pseudanthias thompsoni?	Acanthocidaris hastigera	sponge on C. spiralis
Parapercis schauinslandi	octopus	Lyrocteis sp.
Eel	anemone w/ shrimp assoc.	
Priacanthus alalaua	Stylocidaris rufa	
Rexea nakamurai?	Tamaria triseriata	
Seriola dumerili		
Ariosoma marginatum		
Bembrops sp1		
Pristipomoides filamentosus		
Physiculus sterops		
Symphysanodon maunaloae		
Morid		
Decapterus sp.		
Gnathophis sp.		

MISSION EVALUATION:

Limitations, failures, or operational problems noted:
The video developed some noise about half-way through the two-hour dive. We were still able to see and continued the dive as normal.

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-182 held on 09-27-02.

a. CTD data by 09-27-04

b. video data by 09-27-04

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