

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. RCV-180

MISSION STATUS

Mission Date: 09-26-02

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

Specific Site (NE side, summit, etc): W side (S-N)

Position (start latitude & longitude): 24° 35.343/167° 20.357

Depth range: 420-160 m

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

Principal Investigator: Christopher Kelley

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Observer 1: Bruce Mundy

Address: NMFS

Observer 2: Rachel Shackelford

Address: HURL - see above

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:

We started out at 420 m on a flat sandy bottom. The substrate went from sandy, to carbonate ledges, to large boulders, to more cobbles and ledges, to carbonate and sand, back to sand, and sand with cobbles. Toward the end of the dive the substrate changed to rocky and we hit a vertical wall at 185 m. By about 150 m coralline and green algae was growing on the rocks.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Epigonus devaneyi	Stereocidaris sp.	Javania sp.
Symphysanodon maunaloae	Homola sp.	Cirripathes spiralis
Pyramodon ventralis	Anthomastus sp.	Lyrocteis sp.
Chlorophthalmus proridens	shrimp, unidentified	
Chascanopsetta prorigera	irregular urchin test	
Beryx splendens ?	Micropyga tuberculata	
Bathyroconger lepturus	Acanthocidaris hastigera	
myctophid	Sphaeriodiscus ammophilus	
Pontinus sp.	Actinocidaris thomasi	
Parabothus coarctatus		
Bembrops sp.		
Saurechelys stylurus		
Physiculus nigripinnis		
Pristipomoides zonatus		
Gymnothorax berndti		
Laemonema sp. ?		
Caprodon schlegeli (female)		
Priacanthus alalaua		
Prognathodes sp.		

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-180** held on 09-26-02.

- a. CTD data by 09-26-04
- b. video data by 09-26-04
- 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