HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P4-060

MISSION STATUS

Mission Date: 09/29/02

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

Specific Site (NE side, summit, etc): West side
Position (start latitude & longitude): 24° 34.273/167° 818.728
Depth range: 210-488 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
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Observer 2: Chris Kelley
Address: 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, one of two Reserve Preservation Areas (i.e., RPAs) provisionally open to bottomfishing. Specific dive objectives were to assess bottomfish populations and survey the fish and invertebrate community at a known fishing site. To accomplish these objectives, a set of four thirty minute transects and two thirty minute bait stations were conducted within the depth range of 200-360 meters, where most species of bottomfish occur.The four transects were conducted at 360, 310, 260, and 210 meters. The two bait stations were conducted at 246 and 316 meters.

Scientific data acquired:

The Pisces 4 landed on a sediment bottom with carbonate outcrops at 361m. The first transect was conducted at this depth and similar to dive P4-058, a number of ehu and other typical bottom fish habitat species were observed. The 310 m and 260 m transects had very few carbonate outcrops. The substrate was primarily sediment with pebbles and cobbles. Consequently, the numbers of fish and invertebrates recorded on these transect were relatively low. Carbonate outcrops reappeared when we moved up to 210 meters. A fairly large number of deep reef fish species, but very few invertebrates, were recorded during the fourth transect at this depth. Table 1 provides the list of organisms observed during the dive. A few small pieces of fishing line and one large anchor and anchor line were also recorded.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Bembrops sp1	Paramunida hawaiiensis	Anthomastus red
Ammodytoides pylei	Neopilumnoplax major	anemone brown
Glossanodon struhsakeri	Paromola japonica	Antipathes brown
Grammatonotus laysanus	Lyrocteis sp	Cirrhipathes spiralis
Antigonia eos	Mollusk	Cerianthid brown
Seriola dumerili	Octopus sp	Pennatula sp2
Roa excelsa	pagurid in mollusk shell	Anthomastus white
Emmelichthys struhsakeri	Psilasteropsis cingulata	anemone orange
Erythrocles scintillans	Tamaria triseriata	Tubularid
Epigonus glossodontus	Stereocidaris hawaiiensis	Clavularia purple
Pristilepis oligolepis	Stylocidaris calacantha	
Suezichthys notatus	Micropyga tuberculata	
Etelis carbunculus	Anseropoda insignis	
Etelis coruscans	Plinthaster ceramoidea	
Pristipomoides filamentosus	Sphaeriodiscus ammophilus	
Pristipomoides sieboldii	Plesionika sp.	
Pristipomoides zonatus	Sericolophus hawaiicus	
Morid	Stylocidaris rufa	
Gymnothorax nuttingi	Echinothurid gray	
Parapercis roseoviridis	Micropyga tuberculata	
Chromis struhsakeri	Cingulata	
Pontinus macrocephalus	Homola dickensonii	
Scorpaenid	Paromola sp.	
Caprodon schlegeli	Randallia distincta	
Epinephelus quernus	Cyrtomaia smithi	
Holanthias elizabethae		
Holanthias fuscipinnis		
Luzonichthys earlei		
Plectranthias kelloggi		
Pseudanthias fucinus		
Symphysanodon maunaloae		
Symphysanodon typus		
Canthigaster inframacula		
Ariomma luridum		
Prognathodes sp.		
Ostichthys archiepiscopus		
Pristipomoides auricilla		
Physiculus nigripinnis		
Malthopsis jordani		
Ostracion sp.		
Plesiobatis daviesi		
Priacanthus alalaua		
Squalus mitsukurii		
Hoplostethus crassispinus		
Argyripnus sp		
Araiophos gracilis		

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 achieved its purpose with one hour to spare. This hour was used to survey a carbonate ledge just outside of the fishing site area.

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

P4-060 held on 09-29-02.

a. CTD data by 09-29-04

b. video data by 09-29-04

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