HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P4-058

MISSION STATUS

Mission Date: 09-27-02

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

Specific Site (NE side, summit, etc): West side
Position (start latitude & longitude): 24° 34.0742./167° 18.5352
Depth range: 200-567 m

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

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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 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 200-350 meters, where most species of bottomfish occur. The four transects were conducted at 200, 250, 300, and 350 meters. The two bait stations were conducted at 248 and 318 meters.

Scientific data acquired:

The Pisces 4 landed on a sediment bottom at 404 m. We then moved up slope to 350 m, where we encountered carbonate outcrops. The first transect was conducted at this depth during which a number of ehu were observed. The first bait station was conducted at 318 meters just up slope from the end of transect position. Eighteen onaga,1 kahala, and one Squalus mitsukurii were attracted within camera range. The 300 m and 250 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 200 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 fish and invertebrates observed during the dive. A few small pieces of fishing line and one large anchor line were also recorded.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Synagrops argyrea?	crab	alcyonacean yellow
Ammodytoides pylei	Mursia hawaiiensis	Anthomastus fisheri
Beryx splendens	Eumunida balssi	anemone brown
Bothid	Neopilumnoplax major	Antipathes brown
Chascanopsetta prorigera	Homola dickensonii	Antipathes sp 1?
Parabothus coarctatus	Paromola japonica	Cirrhipathes spiralis
Grammatonotus sp 1	Cyrtomaia smithi	Corallium niveum
Antigonia eos		Calyptrophora sp
Pseudocaranx dentex	Lyrocteis sp	Gardinaria hawaiiensis
Seriola dumerili		Javania insignis
Carcharhinus plumbeus?	Octopus sp	Clavularia purple?
Roa excelsa		
Chlorophthalmus proridens	Pleurobranchus sp	cerianthid brown
Emmelichthys struhsakeri		
Epigonus glossodontus	Ciliopagurus hawaiiensis	
Rexea nakamurai	pagurid in mollusk shell	
Ostichthys archiepiscopus		

Pristilepis oligolepis
Bodianus vulpinus
Suezichthys notatus
Aprion virescens
Etelis carbunculus
Etelis coruscans
Pristipomoides auricilla
Pristipomoides sieboldii
Pristipomoides zonatus
Randallichthys filamentosus
Hymenocephalus antraenus
Morid
Gymnothorax nuttingi
Benthosema fibulatum?
Malthopsis jordani
Bembrops filifera?
Bembrops sp 1
Chrionema squamiceps
Parapercis roseoviridis
Plesiobatis daviesi
Polymixia berndti
Chromis struhsakeri
Cookeolus japonicus
Priacanthus alalaua
Neomerinthe rufescens
Pontinus macrocephalus
Scorpaenid
Caprodon schlegeli
Epinephelus quernus
Holanthias elizabethae
Holanthias fuscipinnis
Liopropoma aurora
Luzonichthys earlei
Plectranthias kelloggi
Pseudanthias fucinus
Symphysanodon maunaloae
Symphysanodon typus
Shark
Squalus mitsukurii
Hoplostethus crassispinus
Satyrichthys hians
Cyttomimus stelgis

Anseropoda insignis
Tamaria triseriata
Pteraster obesus myonotus

sponge round
Sericolophus hawaiicus
hexactinellid cup

pyrosome

urchin
Sperosoma obscurum?
Stereocidaris hawaiiensis
Stylocidaris calacantha
Stylocidaris rufa
Micropyga tuberculata

List specimens collected.

Alcyonacean yellow (2 specimens)
Antipathes sp
Micropyga tuberculata?
galatheid

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.

Yes, we accomplished all the required tasks.

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

P4-058 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