HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P4-052

MISSION STATUS

Mission Date: 09/16/02

Location: Raita Bank, Northwestern Hawaiian Islands

Specific Site: East side
Position start: 25° 30.497'N 169° 23.219'W
Depth range: 130-657m

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

Principal Investigator: Christopher Kelley

Address: Hawaii Undersea Research Lab
1000 Pope Rd.
University of Hawaii, Honolulu, Hi. 96822

Phone: 956-7437

Observer 1: Sean Corson
Address: NOS, 6700 Kalanianaole Highway, Suite 215, Honolulu, HI 96825

Observer 2: Robert Moffitt
Address: NMFS Honolulu Laboratory, 2570 Dole Street Honolulu, Hawaii 96822

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, 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 m.The two bait stations were conducted at 244 and 302 meters.

Scientific data acquired:

All planned surveys were completed. Both bait stations attracted E. quernus and S. dumerili. The 302 m bait station also attracted E. coruscans and G. nuttingi.

Table 1: Biological organisms observed during the dive.

FISHES	ECHINODERMS, CRUSTACEANS, & MOLLUSKS	CORALS, SPONGES & OTHER INVERTS
Ammodytoides pylei	Munida sp	
Chascanopsetta prorigera	Neopilumnoplax major	Anthomastus red
Parabothus sp	Mursia hawaiiensis	Antipathes brown
Grammatonotus sp	Paromola japonica	anemone brown
G. laysanus	Lyrocteis sp	Bathypathes conferta
Seriola dumerili	Munida brucei	Leiopathes glaberrima
Roa excelsa	comatulid brown	Narella nuttingi
Caelorinchus spilonotus	pagurid in mollusk shell	Cirrhipathes spiralis
Epigonus sp	Coronaster eclipes	Corallium regale
macrourid sp	Henricia robusta	Corallium tortuosum
Ventrifossa atherodon	Stylocidaris rufa	Acanella dispar
Pristilepis oligolepis	Panulirus marginatus	Callogorgia gilberti
Bodianus cylindriatus	Scyllarides haanii	Pennatulid sp
Nettastoma parviceps	squid	Gardinaria hawaiiensis
Priacanthus meeki	Ciliopagurus hawaiiensis	Javania insignis
Suezichthys notatus	Sclerasterias euplecta	
Etelis carbunculus	Stylocidaris calacantha	
E. coruscans	Psilasteropsis cigulata	
Pristipomoides zonatus	Tamaria triseriata	
Gymnothorax nuttingi	Heterocarpus laevigatus	
Myctophid	Diadema sp 1	
Pseudopentaceros wheeleri	echinothurid	
Bembrops sp1	Phormosoma bursarium	
Chrionema chryseres		
Parapercis roseoviridis		
Chromis struhsakeri		
Priacanthus alalaua		
Pontinus macrocephalus		
Scorpaenid		
Caprodon schlegeli		
Epinephelus quernus		
Holanthias elizabethae		
Liopropoma aurora		
Plectranthias kelloggi		
Pseudanthias fucinus		
Symphysanodon maunaloae		
S. typus		
Satyrichthys engyceros		
Cyttomimus stelgis		
Synodus sp		

Hoplostethus crassispinus
Malthopsis jordani

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

No problems

Recommendations for corrective action or improvement:

NA

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished.

All goals 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

P4-051 held on 09-16-02.

a. CTD data by 09-16-04

b. video data by 09-16-04

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