HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: P4-102

MISSION STATUS

Location: Maro Reef, NWHI

Latitude: 25°29.2950 **Longitude:** 170°21.0740

Mission Date: 9/18/2003 **Duration:** 8 h 29 min

Maximum Depth: 990 m

Project Title: Canyon & Scavenger Communities of the Main & Northwestern Hawaiian Islands

Principal Investigator: Craig Smith & Eric Vetter

Address: University of Hawaii, Dept of Oceanography
1000 Pope Rd, MSB 205
Honolulu, HI 96822

Phone:

Observer 1: Eric Vetter **Observer 2:** Frederic Martini

Address: HPU **Address:**

Pilot 1: Terry Kerby **Pilot 2:**

Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Objectives:
- Recover traps at 990 m.
- Sediment core at 990 m.
- Megafaunal transects at 650 & 990 m

Dive started on a sloping muddy bottom at 958 m. Transitted to 990 m seeing relatively few fish but many invertebrates. Found trap and marker at 990m. Trap contained 6 eels and one Heterocarbus. Moved along a rocky outcrop that transitioned into an escarpment with many gorgonians and anemones and a few corals. Moved upslope over mud to the 650m station. Found marker but not trap. Moved over mud to a rocky outcrop and then down a 20m wall.

Species List:
Please mark whether -single; -few (2-10); -many (11-100); -abundant (>100)
(e.g., Symphysanodon maunaloae-many)

Hydrolegus pupurescens-few
Conger sp.-few
Meadia abyssalis-few
Sladenia remiger-single
Satyrichthys engyoceros-few
Polymixia berndti-few
Macrourid sp.-many
Ventrifossa-few
Coryphaenoides-few
Coelorhynchus-few
Nettastoma-few
Plesiobatis daviesi-few
Squalus mitsukurii-few
Hexanchus-single
Stethapristes-few
Etmopterus
Gnathophis
Aldrovandria
Hoplichthys

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

none

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.

A trap was lost at 650 m. Our best guess is that it was carried off by a *Hexarchus*.

List specimens or samples collected on the mission.

4 eels and one shrimp in a scavenger trap.
2 shrimp caught with a net
8 sediment cores

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

_ Canyon & Scavenger Communities of the Main & Northwestern Hawaiian Islands

(project title)

held on__ 9/18/2003 _____(date) in the following way:

a. CTD data by____9/18/2005_____(date)

b. voice transcripts, video, and still camera film by___9/18/2005____(date)
c. other___9/18/2005_____(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