HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: P4-104

MISSION STATUS

Location: Pearl and Hermes Reef

Latitude: 27° 42.210 **Longitude:** 175° 36.155

Mission Date: 21 Sept 2003 **Duration: 8 hours**

Maximum Depth: 750 m

Project Title: Characterization of deepwater fish and precious corals on the seamounts neighboring Hawaii's most remote monk seal colonies.

Principal Investigator: Frank Parrish

Address: Pacific Island Fisheries Science Center
2570 Dole Street
Honolulu, Hawaii 96822

Phone: 808-983-5391

Observer 1: Raymond Boland **Observer 2:**

Address: Same as above **Address: Same as above**

Pilot 1: Terry Kerby **Pilot 2:** Max Cremer

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

Objectives:
The dive began at 750 m. Then a series of exploratory transects were run along the contours between depths of 350 and 500 to document the resident fish and coral assemblages. Collections of sediment were made at 350 m, 400 m and 500 m.

Observations, findings, etc:

The depths of interest, 400 to 500 m, were primarily a cliff face punctuated with sloping relief. At 350 m the bottom was mostly sloping relief with sand over a carbonate bottom. There were many crevices, valleys, gullies and pinnacles. Wire coral was the primary coral encountered and it was found mostly between 350 and 450 m. Fish taxa are listed below.

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

Macrouod sp.-few
Beryx -few
Mictophidae-many
Moridae-few
Rexea sp.-few
Polymixia sp.-few
Pontinus macrocephalus-many
Malthopsis sp.-single
Epigonidae-many
Symphysanodon maunaloa-many
Glossanodon struhsakeri-many
Etelis carbunculus-many
Laemonema rhodochir-few
Grammatonotus laysanus-few
Cyttomimus stelgis-few
Etelis corsucans-single
Chrionema sp.-few
Chloropthalamus sp.-few
Bothid sp.-few
Echinorhinus cookei-single
Gymnothorax sp.-single
Parapercis roseoviridis-single
Plectranthias kelloggi-few
Hyperoglyphe sp.-single
Grammicolepis brachiusculus-few
Draconette xenia-few

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

No problems were encountered. The position of the primary camera is poor for close up shots and the recording of sound on the ROS camera is weaker than the primary camera.

Recommendations for corrective action or improvement:

Adjust for future work.

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 expected were achieved.

List specimens or samples collected on the mission.

Only samples taken were sediment samples N=3 (510, 400, 354 meter)

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

(project title)

held on 9/21/2003 (date) in the following way:

a. CTD data by 9/21/2005 (date)

b. voice transcripts, video, and still camera film by 9/21/2005 (date)
c. other 9/21/2005 (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