

HAWAII UNDERSEA RESEARCH LABORATORY  
QUICK LOOK REPORT MISSION NO. P5-150

## MISSION STATUS

Location:               Loihi Seamount  
Mission Date:         15 September 1990  
Maximum Depth:       995 m  
Project Title:         Geochemistry and Microbiology of Loihi Seamount  
                          Hydrothermal Vent Fields  
Project Leader:       Karl/McMurtry  
Address:               Department of Oceanography  
                          University of Hawaii  
Phone:                 956-6858  
Observers:             Sedwick/Dorr  
Address:               same as above

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

To sample hydrothermal solutions and biota from Pele's Vents, Loihi Seamount, and observe the vent habitat.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Temperature probe appeared to be reading 3-4° high, and was badly bent, could not replace in basket after use. Could not fire 1 of titanium samplers due to space problems. Niskin bottle on front of basket didn't close. No video(?).

Recommendations for corrective action or improvement:

Significant reorganization of sample basket to accomodate more water sampling devices and allow easier use of temperature probe.

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

Yes, about 75% successful.

List specimens or samples collected on the mission.

- 4 water samples
- 3 water/biota samples
- 1 rock

## 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 Geochem. and Microbiol. of Loihi Seamount (project title) held on 9-15-90 (date) in the following way:

- a. CTD data by 9-15-92 (date)
- b. voice transcripts, video, and still camera film by 9-15-92 (date)
- c. other 9-15-92 (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).

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Project Leader