

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-211

MISSION STATUS

Location: Loihi Seamount
Mission Date: August 24, 1992
Maximum Depth: 980 meters
Project Title: Geochemistry of Loihi Seamount Hydrothermal System
Project Leader: G. McMurtry
Address: Dept. of Oceanography
University of Hawaii
1000 Pope Road
Honolulu, HI 96822
Phone: (808) 956-6858
Observers: P. Sedwick, C. Moyer
Address: As above

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

Objectives were to observe, measure temperature of, and sample hydrothermal fluids from Pele's Vents, using titanium sampling bottles, gas-tight sampler, and Niskin bottles, along with temperature probe.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Overall, the system worked well, although we did not have the preferred low-temperature probe (broken on dive 208). A major problem was a very strong bottom current, which made holding position for sampling very difficult.

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.

List specimens or samples collected on the mission.

- 1 Niskin bottle sample.
- 1 gas-tight sample.
- 2 titanium bottle samples.
- numerous rocks (~1/2 box)
- 1 shrimp
- 2 slide sticks.

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. of Loihi Seamount Hydrothermal System (project title) held on August 24, 1992 (date) in the following way:

- a. CTD data by August 24, 1993 (date)
- b. voice transcripts, video, and still camera film by August 24, 1993 (date)
- c. other August 24, 1993 (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).

Project Leader