

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-241

MISSION STATUS

Location: Loihi Seamount
Mission Date: September 5, 1993
Maximum Depth: 1100 m
Project Title: Mass and heat fluxes from Loihi Seamount
Principal Investigator: G. McMurtry and F. Sansone
Address: University of Hawaii
Dept. of Oceanography
1000 Pope Road
Honolulu, HI 96822
Phone: (808) 956-8370
Observers: G. Wheat and C. Moyer
Addresses: Same as above

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

Collect gas-tight samples for dissolved gases and water samples to define the chemical interactions in hydrothermal vents and plumes from Loihi Seamount. Also, deploy bacterial mat collectors and retrieve a shrimp trap. Also use the rosette sampler to collect bacteria for further study.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

We had problems triggering the titanium gas-tight samplers.
We may need the "Tom Thumb" to trigger those.

Recommendations for corrective action or improvement:

"We" talked about a "manifold" sampler and other possibilities.

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

Everything was accomplished.

List specimens or samples collected on the mission.

8 rosette slurp samples
3 Niskin water samples
2 "major" water samples
2 gas-tight titanium samples
1 gas-tight stainless steel sample
1 shrimp trap
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 Mass and heat fluxes from Loihi Seamount (project title) held on September 5, 1993 (date) in the following way:

- a. CTD data by September 4, 1995 (date)
- b. voice transcripts, video, and still camera film by September 4, 1995 (date)
- c. other September 4, 1995 (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