

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-310

MISSION STATUS

Location: Loihi

Mission Date: October 2, 1996

Maximum Depth: 1206 m.

Project Title: Chemical and Heat Fluxes from Loihi Seamount

Principal Investigator: Frank J. Sansone

Address: Oceanography Dept.
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Honolulu, HI 96822

Phone: (808)956-8370

Observer 1: F. Sansone

Observer 2:

Address: as above

Address:

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

The objective of the dive was to collect a full suite of vent fluid and proximal plume samples at the vent field on the NW wall of Pele pit. The samples collected were vent fluids (Titanium majors and Lupton gas-tight samples), proximal plumes (basket-mounted Niskin bottles), bacterial mat (suction samples), sediment (scoop samples), and rock samples. In addition, a miniature temperature recorder was also used to measure the vent fluid temperature.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

No. Temperature probe was available to measure vent fluids.

Recommendations for corrective action or improvement:

Time-of-day overlay (with on-off switch) for the sub's video would be very helpful during post-dive analysis of the videos.

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

All the objectives of the dive were met.

List specimens or samples collected on the mission.

See attached list.

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

Chemical and Heat Fluxes from Loihi Seamount (project title)

held on 10-2-96 (date) in the following way:

- a. CTD data by 1-1-98 (date)
- b. voice transcripts, video, and still camera film by 1-1-98 (date)
- c. other 1-1-98 (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