

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-214

MISSION STATUS

Location: Pele's Vents, Loihi & area of Kapo's Vents,
Loihi

Mission Date: August 30, 1992

Maximum Depth: 1280 meters

Project Title: Training

Project Leader: A. Malahoff

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University of Hawaii
1000 Pope Road
Honolulu, HI 96822

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Observers: F. Dobbs and G. McMurtry

Address: Same

Phone: 956-8668 (Dobbs); 956-6858 (McMurtry)

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

Water samples; gas samples; deployed shrimp traps; deployed "slide sticks" for microbial colonization studies; collected rocks at Kapo's Vents area; explored area between Pele's and Kapo's Vents and discovered new venting area at 1215 m (weak flow between large pillow basalt boulders). Butterfly samples were also collected at Pele's Vents for bacterial mat studies.

MISSION EVALUATION: (Mission evaluation completed by scientific observers. Does not refer to training operations.)

Limitations, failures, or operational problems noted:

Butterfly sampler no.1 continued to discharge prematurely at air-sea interface.

High-T temperature probe was recording spurious results throughout dive.

Recommendations for corrective action or improvement:

Obtain and maintain spare temperature probes for submersible operations.

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

Biology objectives were met. Chemistry objectives to locate active, high-T ($\sim 30^{\circ}\text{C}$) vents and samples were not met.

List specimens or samples collected on the mission.

See previous page.

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 Chemistry & Microbiology of Loihi Hydrothermal System (project title) held on August 31, 1992 (date) in the following way:

- a. CTD data by August 31, 1994 (date)
- b. voice transcripts, video, and still camera film by August 31, 1994 (date)
- c. other August 31, 1994 (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