

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-193

MISSION STATUS

Location: Loihi Seamount
Mission Date: October 12, 1991
Maximum Depth: 1260 meters
Project Title: Microbiology of Hydrothermal Vents
Project Leader: Karl, D.
Address: Dept. of Oceanography
1000 Pope Road
University of Hawaii
Honolulu, HI 96822
Phone: 956-8964
Observers: D. Karl (stbd), C. Moyer (port)
Address: Same as above

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

Objectives:

- 1) Sample bacterial mats at Pele's Vent
- 2) Recover settling plates previously deployed

Techniques:

Use a variety of sampling methods including: Niskin baggie samplers, recovery of whole rock samples for removal of bacteria

Analysis:

At home-based laboratory

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

1. Schilling arm worked at first then failed.
2. Camera (still) did not work.

Recommendations for corrective action or improvement:

1. Repair, especially #1 above, as two arms are required for our mission objectives.

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

Yes. We obtained approximately 80% of samples (see below)

List specimens or samples collected on the mission.

1. 3 Niskin baggies with bacterial floc
2. 20 kg of rocks from vent orifice
3. recovered 1 settling experiment.

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 Microbiology of Pele's Vent
(project title) held on October 12, 1991 (date) in the following way:

- a. CTD data by January 1, 1992 (date)
- b. voice transcripts, video, and still camera film
by January 1, 1992 (date)
- c. other January 1, 1992 (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