

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-195

MISSION STATUS

Location: Pele's Vents
Mission Date: October 16, 1991
Maximum Depth: 1050 meters (approximately)
Project Title: Microbial Mats of Loihi Seamount (Pele's Vents)
Project Leader: D. Karl
Address: Dept. of Oceanography
1000 Pope Road
University of Hawaii
Honolulu, HI 96822
Phone: 956-6896
Observers: Ricardo Leteleir^{alier}, Craig Moyer
Address: Same as above

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

Survey area adjacent to Pele's Vents from Northwest to Northeast at approximately 1040-1030 meters. Acquire rocks in mat material attached at Pele's Vents. Sample mats in baggie sampler at Pele's Vents. Deploy slide sticks #1 and #3, and recovery of 48 hour old slide stick #2.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Strobe for still pictures did not function. Most rock samples had minimal mat material associated with them.

Recommendations for corrective action or improvement:

Next dive we will focus entirely at getting rocks directly from defined vent orifice sites, which are actively venting fluid.

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

Yes, this was still a very successful mission. Baggies worked better this time.

List specimens or samples collected on the mission.

3 Baggie samples.
Multiple Rock Samples.
1 slide stick recovered (#2; 48 hours old)

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 Microbial Mats at Pele's Vents
(project title) held on October 16, 1991 (date) in the following way:

- a. CTD data by October 16, 1991 (date)
- b. voice transcripts, video, and still camera film
by October 16, 1991 (date)
- c. other October 16, 1991 (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