

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-194

MISSION STATUS

Location: Loihi Seamount: Pele's and Max's Vents
Mission Date: October 14, 1991
Maximum Depth: 1400 meters (approximately)
Project Title: Microbial Mats at Pele's Vents
Project Leader: D. Karl
Address: Department of Oceanography
 1000 Pope Road
 University of Hawaii
 Honolulu, HI 96822
Phone: 956-6896
Observers: Dale Hebel, Craig Moyer
Address: Same as above

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

Objectives were to observe Max's and Pele's Vents with respect to microbial mat composition. To deploy and recover slide sticks, using quiver device. To sample mats directly by recovering mat covered rocks and through the use of butterfly baggie water samplers.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Butterfly baggies all were clogged upon activation. Minimal samples were recovered.

Recommendations for corrective action or improvement:

To fire off butterfly device with sampling hose above mats and then to slowly suck up mat samples.

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 mission was exceptionally successful. Cameras and video all worked very well. Schilling arm also worked very nicely in the sampling of mat covered rocks.

List specimens or samples collected on the mission.

3 butterfly baggie water samples.
2 slide sticks with glass slides.
Several mat covered rocks.

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 14, 1991 (date) in the following way:

- a. CTD data by October 14, 1991 (date)
- b. voice transcripts, video, and still camera film
by October 14, 1991 (date)
- c. other October 14, 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