

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-186

MISSION STATUS

Location: Loihi, NE side of summit platform
Mission Date: Sept. 17, 1991
Maximum Depth: 2000m
Project Title: Loihi Rocks
Project Leader: Michael Garcia
Address: Geology-Geophysics
 University of Hawaii
 Honolulu, HI 96822

Phone: 956-6641
Observers: David Foss
Address: same as above

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

The objective of this mission was to collect a stratigraphic sequence of rocks from the dissected flanks of Loihi. This would give up samples in temporal progression to evaluate the petrologic history of the volcano. The mission was a complete success. We covered the entire depth range and collected in-place samples from the entire range. We found a pillow cone/cinder cone with coarse glassy sand overlain by pillows. This eruption had an explosive phase. On the cone we found yellow mats of bacteria (?).

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None. Everything went extremely well.

Recommendations for corrective action or improvement:

None

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

Complete success due to excellent performance by pilot in
quickly picking up samples. All objectives accomplished.

List specimens or samples collected on the mission.

15 basalt samples collected.

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 Loihi - Rocks
(project title) held on Sept. 17, 1991 (date) in the following way:

- a. CTD data by Sept. 1991 (date)
- b. voice transcripts, video, and still camera film by Sept. 1992 (date)
- c. other Sept. 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