

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-308

MISSION STATUS

Location: Loihi

Mission Date: September 29, 1996

Maximum Depth: ~ 1500 m.

Project Title: Loihi Post Crisis

Principal Investigator: Alexander Malahoff

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Observer 1: Duennebier

Observer 2:

Address: Geology & Geophysics Dept. **Address:**
HIG 318
University of Hawaii

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

Dive was to look for the source of eruptive noises heard on Sono Buoys the day before the dive. While an eruptive site had been located earlier in the cruise, other priorities prevented diving on that site. By the time of dive 308, that site had stopped erupting, and a new eruptive site to the north could not be located as well because of a lack of buoys. The 2nd purpose for the dive was to survey the north end of the summit for HUGO. We did not find the eruptive site. Visibility in the suspect area was limited by turbid water.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

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.

As a primary goal of this dive was to visit an on-going eruption site, the goal was not met. The site we were looking for - in hindsight - was probably down-slope to the east. As all we had to go on was a line defined by signals recorded by two sonobuoys, it appears that we chose the wrong direction to survey when we hit that line.

The survey of the northern end of the summit - crossing the HUGO cable route was successful.

List specimens or samples collected on the mission.

1. Picked up 1 fist-sized sample for Alex Malahoff at 1312 L on north end of summit. See dive log for location.
2. Bottom of crater near 18°56'25"N 155°15'10"W
 - 1 scoop of sediment from crater floor
 - 4 rocks from edge of crater floor
 - 1 piece of sediment crust
 - 1 sediment scoop containing crust.

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 Post Crisis (project title)

held on 9-29-96 (date) in the following way:

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

Principal Investigator