

HAWAII UNDERSEA RESEARCH LABORATORY  
QUICK LOOK REPORT MISSION NO. P5-107

## MISSION STATUS

Location: Loihi, Hawaii  
Mission Date: September 15, 1988  
Maximum Depth: 1310 meters  
Project Title: Hydrothermal Fields  
Project Leader: Dr. Alexander Malahoff  
Address: Department of Oceanography  
University of Hawaii  
1000 Pope Road, MSB 319  
Honolulu, Hawaii 96822  
Phone: (808) 948-6802  
Observers: A. Malahoff, J. Smith  
Address: Department of Oceanography  
University of Hawaii  
1000 Pope Road, MSB 319  
Honolulu, Hawaii 96822

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

The objective of this dive was to sample the west pit crater for evidence of hydrothermal venting and polymetallic sulfide precipitation. The west pit was found to contain two oxygen depleted pits, we named "Pele's Death Pits, where dead fauna was scattered on the ocean floor at a water depth of 1310 meters. The walls of the pit crater were found to be sites of dike intrusions. The dive continued to Pele's vents where a "dandelion" tethered animal was sampled above a vent.

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.

Yes.

List specimens or samples collected on the mission.

rock samples, tissue samples of "dandelion"

## 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 Hydrothermal Fields  
(project title) held on September 15, 1988 (date) in the following way:

- a. CTD data by September 15, 1990 (date)
- b. voice transcripts, video, and still camera film  
by September 15, 1990 (date)
- c. other September 15, 1990 (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).

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Project Leader