

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-328

MISSION STATUS

Location: Pele's Pit, Loihi

Mission Date: Aug.28, 1997

Maximum Depth: 1305 m.

Project Title: Pathfinder

Principal Investigator: A. Malahoff

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Honolulu, HI 96822

Phone: 956-6802

Observer 1: A. Malahoff

Observer 2: (Tym Catterson)

Address: as above

Address: HURL

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

The objective of this dive was to repeat the path of dive 327 and mark a safe accessible repeatable path from the edge of Pele's Pit to the Ikaika vent site. Set marker (8) on edge (1152 m.) of western gate of pit and descended on a glide slope to Ikaika vents. Reached vents and mapped vent field for suitable flat spots. Measured max. temperature 161°C in vent orifice. All vents emanate from orifices at seafloor level. No chimneys examined and sampled the 1996 jet vents on wall ascended north wall. Placed marker (19) at vent site.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Hyco arm used - slow
Titan arm not operational

Recommendations for corrective action or improvement:

Titan arm parts are coming.

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

Yes, splendidly.

List specimens or samples collected on the mission.

Pisces rosette samples
Niskin water sample
rock samples
one scoop sample
measured max temp. 161°C

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

Pathfinder Dive 328 (project title)

held on Aug. 28, 1997 (date) in the following way:

- a. CTD data by Aug., 1999 (date)
- b. voice transcripts, video, and still camera film by Aug., 1999 (date)
- c. other Aug., 1999 (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