

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-327

MISSION STATUS

Location: Pele's Pit, Loihi

Mission Date: Aug.27, 1997

Maximum Depth: 1303 m.

Project Title: Pathfinder

Principal Investigator: A. Malahoff

Address: Hawaii Undersea Research Lab.
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Honolulu, HI 96822

Phone: 956-6802

Observer 1: A. Malahoff

Observer 2: (Chuck Holloway)

Address: as above

Address: HURL

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

Traversed from Kapo's vents to western edge of Pele's Pit. Mapped the pit edge clearly defined by a talus covered slope. Moved to west gate and determined descent path through gap into Ikaika vents. Found vents, no chimneys, temperature 187°C. Clear venting, numerous shrimp. Venting at northeastern corner of pit. Vents vent through talus.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None (at this time Titan arm was off sub.)

Recommendations for corrective action or improvement:

None (parts of Titan arm coming to Kona)

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

Splendidly - we found a reliable path from the pit rim to the vents.

List specimens or samples collected on the mission.

water from submersible rosette
Niskin water sample
measured water temperature of 187°C
rock samples
scoop sample of sediments

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 327 (project title)

held on Aug. 27, 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