

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-305

MISSION STATUS

Location: Loihi

Mission Date: September 26, 1996

Maximum Depth: 1179 m.

Project Title: Loihi Safety Inspection

Principal Investigator: Alexander Malahoff

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Observer 1: as above

Observer 2: A. Wright

Address:

Address: as above

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

Pick up OBS off north-west rim of Loihi, sample vents, find safe landing place for Pisces V near vents. Dive began in West Pit, poor visibility. Pit filled with unconsolidated mud. Sub landing caused landslide into center of pit. Mapped channel between West Pit and Pele's Pit. Mapped new vigorously venting vents at 1179 meters depth at edge of Pele's Pit Vents, populated by bacteria, about 20 meters in width. Vents stop abruptly to the west where the wall is marked by exposed dike rock. Summit of ridge at 1043 meters, covered by "nontronite". Recovered OBS at 971 meters water depth.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None. General poor visibility caused by flocculated water. Unstable terrain.

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. Mapped new vents, the Lohiau Vents at 1179 meters below former site of Pele's Vents.

List specimens or samples collected on the mission.

Water samples, rock sample.

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 Safety Inspection (project title)

held on 9-26-1996 (date) in the following way:

- a. CTD data by 1998 (date)
- b. voice transcripts, video, and still camera film by 1998 (date)
- c. other 1998 (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