

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-343

MISSION STATUS

Location: Loihi

Mission Date: Jan.19, 1998

Maximum Depth: 1205 m.

Project Title: HUGO Service Dives

Principal Investigator: F. Duennebier

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Observer 1: F. Duennebier

Observer 2:

Address: as above

Address:

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

Objectives:

The primary objective of this dive was to locate, survey, and service the HUGO Junction Box, installed on October 11, 1997, when it was lowered to the summit of Loihi and an electro-optical cable was run from the Junction Box to shore. HUGO (the Hawaii Undersea Geo-Observatory) will provide electrical power and real-time data transmission to shore for potentially more than 100 experiments at the summit of Loihi. Most will require the submersible for installation and servicing.

This is the first of four dives to HUGO for the purpose of repairing damaged parts and installing new experiments.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The submersible systems and operations were flawless. The new sonar system tried was very important, as considerable time was lost because of mud clouds.

Recommendations for corrective action or improvement:

Purchase one of the sonar systems!

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

The designed mission of the first dive was very ambitious, but I have little doubt that the objectives could have been met if the HUGO Junction Box were not half-buried in mud. The mud cost great amounts of time while waiting for mud clouds to clear. For once, there was very little current in the area. Two primary objectives were accomplished. HUGO is again in operation, and an operating hydrophone was installed.

List specimens or samples collected on the mission.

Videotapes and slides only.

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

HUGO Service Dives (project title)

held on Jan. 19, 1998 (date) in the following way:

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

* Any time with Duennebier permission.

Principal Investigator