

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-344

MISSION STATUS

Location: Loihi seamount - HUGO Junction Box

Mission Date: Jan. 20, 1998

Maximum Depth: ~1202 m.

Project Title: HUGO Service Dives

Principal Investigator: F. Duennebier

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Observer 1: Jackie Caplan-Auerbach

Observer 2:

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Address:

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

The objective of this dive was to test and repair as many functions of the HUGO Junction Box as time would allow. Additionally we hoped to begin a survey of the cable linking HUGO to the shore station at Honu'apo. We succeeded in testing four connectors by installing a hydrophone or test connector. Additionally we moved the seawater return system to a position away from the main Junction Box. All actions were limited by the severely restricted visibility caused by the ubiquitous mud. The cable was surveyed for approximately 1 mile and was found to generally lie in a stable smooth position.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The obvious limitations were mud (poor visibility as well as creating an extra weight burden for the sub) and navigation. These combined such that we lost a significant amount of work time.

Recommendations for corrective action or improvement:

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

I felt that the mission was definitely successful, given the visibility and navigation problems. Had we been able to work constantly, much more might have been achieved (i.e. surveying more cable, time to test and fix the 2nd hydrophone). The only major things we did not achieve were the total repair of the seismic package (equipment trouble) and the smoothing out of the kink in the cable near shore.

List specimens or samples collected on the mission.

N/A

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. 20, 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