

**HAWAII UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT MISSION NO. P5-346**

**MISSION STATUS**

**Location:** Loihi

**Mission Date:** Jan. 22, 1998

**Maximum Depth:** 1205 m.

**Project Title:** HUGO Service Dives

**Principal Investigator:** F. Duennebieer

**Address:** Dept. of Geology & Geophysics  
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**Phone:** (808)956-4779

**Observer 1:** Duennebieer

**Observer 2:**

**Address:** as above

**Address:**

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

**Objectives:**

The objectives of this dive were to install a second hydrophone on the HUGO Junction Box, test the connectors on the stbd side, install a seismometer package, take a mud sample, and survey the cable route to the north, extending the survey begun on PV-344. Unfortunately, the hydrophone was found to be inoperable after installation, and it had to be removed and replaced by a dummy plug. The seismometer, returned to the surface on PV-345, could not be repaired at sea. All connector bay tests were accomplished and further surveying was accomplished.

**MISSION EVALUATION:**

**Limitations, failures, or operational problems noted:**

Titan arm was flaky, sometimes not responding to commands and opening its jaws without command. This resulted in dropping several items into the mud, where they had to be fished for. All other systems and personnel were excellent.

**Recommendations for corrective action or improvement:**

Repair titan arm. It worked great on other dives.  
The Pisces and ship crews were excellent.

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

Yes, all work possible was accomplished.

**List specimens or samples collected on the mission.**

1 mud sample from next to the HUGO Junction Box.  
Video and slides.

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.22, 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.

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Principal Investigator