

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-408

MISSION STATUS

Location: Loihi

Mission Date: 10/26/78

Maximum Depth: 1204 m

Project Title: HUGO

Principal Investigator: Duennebier

Address: POST 809  
SOEST

Phone: x64779

Observer 1: Duennebier

Observer 2:

Address:

Address:

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

Purpose of dive was to plug a battery package into the HUGO Junction Box to attempt to get more data and determine whether the system electrical fault was in the Junction Box or in the cable to shore.

The 450-16 (in air) battery package was released directly over the junction box from the stern of the KOK, and Pisces dove about ~~1~~ 1 hour later. Pisces placed a pinpr on the Junction Box (after finding some 11.5°C vents about 50 m NW of the Junction Box) then traversed Cover |

## MISSION EVALUATION:

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

Poor navigation from surface! Location of pieces on the bottom was not well known.

**Recommendations for corrective action or improvement:**

LBL acoustic nav. system would work much better. State-of-the-art precision is meters as in real time.

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

Yes. The location of the Junction Box and battery pack were determined quickly, and the two packages were mated very quickly. While we did not have time to recover the battery package on this dive, and it will need to be recovered on a later dive, the extra data recovered are well worth it.

Excellent dive.

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

1 temp measurement (11.5° at a vent 50 m from HUGO J. Box).

~~No physical samples~~ Water samples taken on ascent.

# 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 - battery pack plug-in (project title)

held on 10/26/98 (date) in the following way:

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