HAWAII UNDERSEA RESEARCH LABORATORY **QUICK LOOK REPORT MISSION NO. P5-336**

MISSION STATUS

Location:

Forbidden Vents, NE Pele's Pit Crater

Mission Date: Sept.9, 1997

Maximum Depth: 1320 m.

Project Title: Chemical Monitoring of Hydrothermal Venting on Loihi Seamount

Principal Investigator: Gary McMurtry

Address:

Dept. of Oceanography

University of Hawaii Honolulu, HI 96822

Phone:

(808)956-6858

Observer 1:

Gary McMurtry

Observer 2: Chuck Holloway

Address:

as above

Address:

HURL

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

Objectives of this dive were: (1) to test deploy the HCMS II sea floor observatory; (2) to sample temperature, water, rocks, sediments and hydrothermal deposits in vent fields; and (3) to deploy microbial and macrobial traps for biological studies. We used the P5 external temperature probe, gas-tight and major samplers, Niskin, sediment scoops and deployed the observatory and various traps. We measured very high temp. vents (to 200°C) and collected the first massive sulfide chimney deposits from Loihi.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None. The HURL team and equipment worked extremely well. The WestMar sonar unit failed, but we were still able to achieve all of our objectives for the dive.

Recommendations for corrective action or improvement:

Fix or replace WestMar unit.

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 objectives were essentially completed, and in order of their priority.

List specimens or samples collected on the mission.

See attached table, Pisces Sample Log, for Dive 336.

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
Chemical Monitoring of Hydrothermal Venting (project title)
held on Sept.9, 1997 (date) in the following way:
a. CTD data by Sept.9, 1999 (date)
b. voice transcripts, video, and still camera film by Sept.9, 1999 (date)
c. other <u>Sept.9, 1999</u> (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