

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-185

MISSION STATUS

Location: St. Pt. Mauna Loa
Mission Date: Sept. 15, 1991
Maximum Depth: 1810m
Project Title: Mauna Loa SW Rift
Project Leader: Michael Garcia
Address: Geology - Geophysics Dept.
University of Hawaii
Honolulu, HI 96822

Phone: 956-6641
Observers: T. Hulsebosch
Address: Geology - Geophysics Dept.
University of Hawaii
Honolulu, HI 96822

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

Objective of this dive was to examine the middle section of Mauna Loa's SW rift zone for basic geology. This included looking for vents and collecting samples. We found the rift consisting of 20-40m high pillow cones with intervening areas of talus and fine sediment. Sediment was much more abundant than expected. It occurred on slopes with significant dips (10-15 degrees) as well as flatter areas. We were successful in collecting samples between 1800 and 1500m water depth.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

- No still camera
- No sonar

Recommendations for corrective action or improvement:

None

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

Yes. Although we covered less ground than hoped for; we still made about a 3 km traverse along the west flank of the rift and collected frequently.

List specimens or samples collected on the mission.

11 samples of pillow basalt, most with glass margins.

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 SW Rift Mauna Loa
(project title) held on Sept. 15, 1991 (date) in the following way:

- a. CTD data by none (date)
- b. voice transcripts, video, and still camera film
by Sept. 15, 1992 (date)
- c. other Sept. 1992 (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).

Project Leader