

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-294

MISSION STATUS

Location: Submarine north flank of Molokai

Mission Date: September 4, 1996

Maximum Depth: 1782 meters

Project Title: Extent and depth of landsliding, north flank of Molokai

Principal Investigator: Robin T. Holcomb

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School of Oceanography, Box 357940
University of Washington
Seattle, WA 98195

Phone: (206)543-5274

Observer 1: Robin Holcomb

Observer 2: Brian West

Address: same

Address: School of Oceanography
University of Washington
Seattle, WA 98195

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

The objective was to run a magnetic survey on a magnetic bearing of 180° ($\sim 191^{\circ}$ true) up across the 1300 meter terrace and continue to the summit of a circular lava cone, hoping to record the polarities of any magnetozones exposed in the front of the terrace and an anomaly associated with a young lava flow draped over the terrace. We also intended to collect samples from any young lavas draped over the terrace, as well as from somewhere on the lava cone.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None

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, we did accomplish what we set out to do, except that we did not see any stratigraphic layers exposed in the face of the terrace, which was mantled by fine sediment except where we saw lava flows draped over it. We saw 2 flows, of which the lower aa-like flow ----possibly subaerial ---- appears to have reversed polarity, and the upper pillow basalt and lava cone appear to have normal polarity.

List specimens or samples collected on the mission.

P5-294 --1 basalt from base of a pillow
P5-294 --2 basalt from base of lava cone
P5-294 --3 basalts from summit of lava cone
P5-294 --4 basalts from summit of lava cone

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

Depth and extent of landsliding on the north flank of Molokai (project title)

held on September 6, 1996 (date) in the following way:

- a. CTD data by 9-30-96 (date) (none collected)
- b. voice transcripts, video, and still camera film by 9-30-97 (date)
- c. other 9-30-97 (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).

Robin T. Holcomb Principal Investigator