

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-252

MISSION STATUS

Location: North of Molokai $21^{\circ}14.1'N$; $156^{\circ}59.3'W$
Mission Date: October 8, 1993
Maximum Depth: 580 m
Project Title: Past sea level off Molokai
Principal Investigator: Jim Moore and Dave Clague
Address: U.S. Geological Survey
MS-910
Menlo Park, CA 94025
Phone: (415) 329-5244
Observers: Jim Moore (Allen Wright was second pilot)
Addresses: Same as above

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

Purpose of dive was to establish position of sea level at the time Kalaupapa volcano was built about 0.5 Ma. The mapping and sampling of pillow lava, which is probably part of the primary eruptive episode, up to 50 m depth indicates sea level was about where it is now and Molokai has experienced little subsidence in the last 0.5 Ma.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None. Excellent dive despite moderate seas and inshore operations.

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, achieved purpose. 9 samples collected, and extent of pillow lavas associated with the young Kalaupapa volcano was mapped.

List specimens or samples collected on the mission.

- (1) pillow breccia
- (2) pillow breccia
- (3) pillow breccia
- (4) carbonate crust
- (5) porous carbonate
- (6) pillow basalt
- (7) carbonate
- (8) carbonate
- (9) pillow basalt fragment

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 Past Sea Level off Molokai
(project title) held on October 8, 1993 (date) in the following way:

- a. CTD data by October 8, 1994 (date)
- b. voice transcripts, video, and still camera film by October 8, 1994 (date)
- c. other October 8, 1994 (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