

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-253

MISSION STATUS

Location: North of Molokai 21°19'N; 156°54'W
Mission Date: October 10, 1993
Maximum Depth: 1800 m
Project Title: Past Sea Levels 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 and John Smith
Addresses: Moore - See above
Smith - University of Hawaii
Department of Oceanography
1000 Pope Road
Honolulu, HI 96822

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

Objective was to traverse up north wall of Molokai to determine nature of 13-1500 m terrace. Found massive outcrops of shattered basalt (perhaps largely intrusive) below terrace. Beginning at 1615 m encountered carbonate-cemented sediments with visible layers up to several feet thick. These continued up to 1200 m. But in places mounds of pillow lava protrude through sediment.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

None, very efficient and productive dive.

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

Yes. Traversed about 3 km up the north wall of Molokai from 1800 m to 1200 m depth. Collected ample samples to characterize bottom.

List specimens or samples collected on the mission.

- | | |
|-----------------------------|---------------------------------|
| (1) massive basalt | (7) carbonate-cemented sand |
| (2) massive basalt | (8) carbonate-cemented sediment |
| (3) angular fragment lava | (9) angular lava |
| (4) shattered basalt | (10) pillow lava |
| (5) worm-textured carbonate | (11) 2 pieces pillow lava |
| (6) slab of sediment | (12) frag. pillow lava |

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 Levels off Molokai
(project title) held on October 10, 1993 (date) in the following way:

- a. CTD data by October 10, 1994 (date)
- b. voice transcripts, video, and still camera film by October 10, 1994 (date)
- c. other October 10, 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