

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. PS-405

MISSION STATUS

Location: Pololu Landslide, Kohala

Mission Date: 10/22/98

Maximum Depth: .

Project Title: Geologic history of Kohala Volcano

Principal Investigator: DAVID CLAGUE

Address: MBARI, P.O. Box 628, Moss Landing, CA 95039

Phone: 831-775-1781

Observer 1: David Clague

Observer 2: James Moore

Address: above

Address: USGS, 345 Middlefield Rd
Menlo Park, CA 94025

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

The objective of the program is to outline the geologic history of the Pololu landslide on Kohala Volcano and to determine the composition of early Kohala lavas to compare to those that form the Hilo Ridge to ascertain if the Hilo Ridge is a Kohala rift zone instead of a Maunakea rift zone. This first dive of 3 collected numerous dense, glassy lavas whose chemistry can be compared to already completed ~~and~~ analyses of Hilo Ridge lavas. We also discovered an ash deposit on the second seamount and a block of carbonate in the ash that will help define the sequence of events that occurred before, during, and after the Pololu landslide.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Dive executed without a hitch. New sonar made dive much more successful since we could identify hard-work targets from afar.

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.

We completed sampling of 2 "pancake volcanoes" on flank of Kohala, recovered 15 rocks, many with glassy rinds, and discovered ash deposits on the second pancake cone.

List specimens or samples collected on the mission.

15 rocks (3 ashes, 12 lava rocks)

2 sediment scoops -

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

History of Kohala Volcano (project title)

held on 10/22/98 (date) in the following way:

- a. CTD data by NA (date)
- b. voice transcripts, video, and still camera film by 10/22/00 (date)
- c. other _____ (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).

David Cloque Principal Investigator