HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT (QLR) for *Pisces* and *RCV-150*

DIVE: P4-167
(*Extend length of sections as needed/appropriate*)

MISSION STATUS

Location: Hilo 1100m feature

Latitude: 19˚53.909' **Longitude:** -154˚52.022'

Mission Date: 10-16-2006 **Duration:** 8 hours 0 mins

Maximum Depth: 1506 meters

Project Title: _____

Principal Investigator: Dr. Don Potts

Address: _____

UCSC

Santa Cruz, CA

Phone: _____

Observer 1: Christina Gallup **Observer 2:** Christina Ravelo

Address: Dept. of Geol. Sciences **Address:** Ocean Sciences Department

1114 Kirby Drive 229HH 1156 High Street

Univ. of Minnesota, Duluth 55812 Univ. of Calif., Santa Cruz, CA 95064

Pilot 1: Terry Kerby **Pilot 2:** _____

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

Objectives: Explore 1100m feature, and obtain samples for dating of formation. If fossil reef, obtain samples fossil reef for age dating and paleoenvironmental assessment.

Observations, findings, etc: The 1100 feature is comprised of volcanic flows and debris, some appear to be sheet-like flows and others are pillow basalts. Volcanic breccia, and lows with thin sediment draped over volcanic substrate, was also observed. The only carbonate material encountered was a partially lithified carbonate sandstone – perhaps a beach deposit, sandwiched between basalt flows. We observed the carbonate sandstone formation between 1130 and 1154 meters, along the slope running approx. NW to SE, between the latitudinal range of 19˚53.940 to 19”53.973.

Observed Species list: N/A geologic specimens

MISSION EVALUATION:

Limitations, failures, or operational problems noted: None.

Recommendations for corrective action or improvement:

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished: Yes and no. We did discover, for the first time, that the 1100m terrace feature was a volcanic flow sequence. However, we were hoping for a fossil coral reef in order to meet our paleoenvironmental objectives.

List specimens or samples collected on the mission: 10 rock samples, 1 sediment sample, and 1 water sample.