

PISCES V DIVE REPORT

Pilot T. Kerby Wt. _____
 Observer D. Clague Wt. _____
 Observer Title/Affil. MBARI

Dive # PV-312
 Date Oct. 4, 1996

Observer A. Wright - Copilot Wt. _____
 Observer Title/Affil. HURL

Time of Dive 0820
 Time of Surface 1716
 Time Submerged 8:46
 Time Thru Last Dive 1853:50
 Total Time to Dive 1862:36
 Dive Depth 1470
 Water Depth 1470
 Water Temp. _____
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Location Loihi, South Rift
 Lat. 18° 53.0' N Long. 155° 15.1' W

Purpose: Research Training Demo
 Other: _____

Special Equipment:
 Camera (type) Photosea, Sony, Panasonic
 Manipulator Hyco-Titan
 Other _____

Support Vessel R/V Kaimikai-O-Kanaloa

Dive Results/Remarks: Two pilot dive. Allen takes the sub down. On the bottom in 1470m on a steep slope of intact pillow formations. Move up steep pillow flow terrain. Collect rock samples. Dusting of sediment, grey and black sand. Going to the N.N.E. Move over gradual terrain of shelly Pahoehoe levas. See sponges with a brown covering of sediment, and corals (Lepidisis). All bamboo and branched bamboo corals we see appear to be only the coral skeleton. Do not see any live corals in this newly silt covered terrain.

Move over some pillow flow pinnacles. Pilot switch at noon. Moving N. Come to fresh broken terrain of fissures and cracks through old lava flows. Discover vents at 1324m. Tripped Niskin bottles. Thick Equipment Deficiencies: Nontronite covered bottom on a relatively low angle plain of old pillow flows. Move around vent area. Discover large cracks or fissures in the bottom with venting. Straddle a vent with the Pisces V and collect water samples. Position of vent field is 18° 53.45' N 155° 15.27' W. Move upslope to the N. to Kepos Vent area. Circle rubble cone at 1280m. No sign of vents. Summit rubble mound and leave the bottom from 1250m.

Pilot T. Kerby
 Ops. Mgr. [Signature]

Date 10/6/96
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