

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-640 Date: June 18, 2005
 Observer 1: Colin Wallerman
 Affiliation: HURL Sub ops. PIT
 Observer 2: Tim Worthington
 Affiliation: U of Kiel
 Purpose: Research Training Test
 Other: _____
 Special Equipment: _____
 Cameras: Sony-ROS
 Manipulators: Titan-Hyco
 Samplers/Sensors: Bio box, Rock box
Segmented Rock box.
 Support Vessel: R/V Kaimikai-O-Kenaloa
 Captain: Ross Barnes

Dive Location: Volcano V-18 South
 Latitude: 24° 35.771' S
 Longitude: 176° 52.275' W
 Time of Dive: 0808
 Time of Surface: 1636
 Time Submerged: 8:28
 Time Thru Last Dive: 4260:38
 Total Time to Dive: 4269:06
 Dive Depth: 855m
 Water Depth: 855m
 Water Temperature: 6.3°C @ 855m
 Visibility: _____

Dive Results/Remarks: Rock collecting dive. 0900 Land on a steep slope of pumice rubble, sand and some friable 'a' like basalt outcrops at 806m. Collect best rocks and move upslope to the north west up a wall of massive pyroclastic flows. Collecting rock samples off the wall. Moved to WP# 2 at top of wall. 1118 637m Moving over a sediment bottom to WP#3. 1141 532m in sandy flat bottom at WP#3. Moved to east end of a shallow depression at WP#4. 1214 Contouring a shallow elongated depression with pumice rubble at WP#5 at 519m. 1255 585m Move to the NE to survey the cone. 1306 560m Locate a basalt wall with large 'a' like formations. Move up wall collecting rock samples. 1441 417m Moved up cone to the north. Into an area of iron oxide crust and active bacterial matt. Temp 13.8°C. Collect sample of nontronite. 1530 274m On a pinnacle feature with diffused venting. 18.5°C. Deploy
Equipment Deficiencies: marker #39 @ 274m. Drop down a vertical wall to the NW. Locate worm like deposits and clam and mussel shells. Potential for hydrothermal activity. 1608 341m Leave the bottom.

Pilot's Signature: Terry Kerby
 Operations Director: Terry Kerby

Date: 7/12/05
 Date: 7/12/05