

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-633 Date: May 16, 2005
 Observer 1: Colin Wollerman
 Affiliation: HURH subcaps- PIT
 Observer 2: Tyler Hedges
 Affiliation: Univ. Mississippi
 Purpose: Research Training Test
 Other: _____
 Special Equipment:
 Cameras: Sony, ROS, Data Cam.
 Manipulators: Titan, Hyco
 Samplers/Sensors: Bio box, Rosette, Rock box
sediment scoops, meyers, Gastights, NRS bin
 Support Vessel: R/V Kaimikai-O-Kanaloa
 Captain: Ross Barnes

Dive Location: Tangaroa Volcano
 Latitude: 36° 19.592' S
 Longitude: 178° 02.193' W
 Time of Dive: 0810
 Time of Surface: 1602
 Time Submerged: 7:52
 Time Thru Last Dive: 4210:01
 Total Time to Dive: 4217:53
 Dive Depth: 921m
 Water Depth: 921m
 Water Temperature: 5.9° @ 921m
 Visibility: 20m + @ 921m

Dive Results/Remarks: Exploration dive to locate and sample hydrothermally active sites on the big cone of Tangaroa Volcano. 0907 881m. Land on a steep sedimented slope on the N. flank of the small cone. Move down slope to the WNW. 0933 921m in the saddle between the cones. Collect gorgonians. No sign of hydrothermal activity. 0943 Move upslope to the NW. 1014 743m into an area of hydrothermal alteration. Sample nontrawle deposits. Continue upslope. 1042 694m. Deploy marker #30 at contour depth and begin circuit of cone. Locate a heavy gauge fishing line that extends accross the bottom in long spans and poses an entanglement hazard. We continue to move around the cone keeping the line in view downslope. 1056 669m into an area of thick bacterial matt. 1107 669m Locate active vents with a dense covering of mussels, barnacles and white sulfur deposits. 1125 Move upslope to survey extent of vent activity. 1215 653m Locate marker #23. Move back downslope. 1240 Continue contour. Locate large yellow sulfur deposits with large Equipment Deficiencies: mussels growing on them. 1241 Continue contour. 1302 Sulfur well with mussels at 674m. Continue contour. Locate line and familiar landmark move upslope to summit. Collect water. 1513 Logge the bottom from 655m.

Pilot's Signature: Terry Kerby Date: 5/24/05
 Operations Director: Terry Kerby Date: 5/24/05