

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-629 Date: May 12, 2005
 Observer 1: Max Cremer
 Affiliation: HURL subops Pilot. Dive Location: Tangaroa Volcano
 Observer 2: Alex Malahoff Latitude: 36° 19.714'S
 Affiliation: HURL/GMS Longitude: 178° 02.163'E
 Purpose: Research Training Test
 Other: _____ Time of Dive: 0806
 Special Equipment: _____ Time of Surface: 1546
 Cameras: Sony-120S-Data Cam. Time Submerged: 7:40
 Manipulators: Hyco-Titan FF Time Thru Last Dive: 4176:52
 Samplers/Sensors: Bio Box, Rosette, Reeb Box Total Time to Dive: 4184:32
major, Gastights, Wshin, CTD, Temp, Piche, Sed Scoops Dive Depth: 913m
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Depth: 913m
 Captain: Ross Barnes Water Temperature: 5.5° @ 913m
 Visibility: _____

Dive Results/Remarks: Exploration dive to search for source of hydrothermal plume on 2 cones of Tangaroa Volcano. 0900 Land on a steep rocky slope near the summit of the small cone in 790m. No signs of hydrothermal alteration in the landing are. 0931 780m. Moved upslope to summit area. many corals and sessile communities. No signs of hydrothermal activity. 0942 collect a sediment scoop. Deploy marker #22. Collect coral and urchins. We determine there is no summit cone and that the summit is a pinnacle like feature. 1022 Drop downslope to the East. 1045 826m Deploy marker #23 as a reference marker for a circumnavigation survey of the small cone. Still no signs of hydrothermal activity. 1145 826m Complete circuit of cone. No signs of hydrothermal activity. Recover #23. 1155 Move back upslope to the summit. 1222 Drop downslope to the NW to 839m. Locate a small patch of nontronite. Take a sediment scoop. 1250 911m in notch between cones. 1253 911m move upslope to the WNW. 1313 837m Moved up the large cone. Locate iron oxide deposits. Collect nontronite deposits. Continue upslope. Avoid a heavy gauge fishing line that Equipment Deficiencies: spurs & ridge and poses a potential entanglement hazard at 890m. Continue upslope. 1353 675m. Locate active venting and barnacles. 1412 653m on summit. Collect samples. Vent temp. 12.02. Deploy marker #23. 1442 Leave the bottom from 653m.

Pilot's Signature: Terry Kerby Date: May 25, 2005
 Operations Director: Terry Kerby Date: May 25, 2005