

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-611 Date: April 1, 2005  
 Observer 1: Craig Young  
 Affiliation: University of Oregon Dive Location: Vailulu'u West Rift  
 Observer 2: Stan Hart Latitude: 14° 13.122' S  
 Affiliation: WHOI Longitude: 169° 06.037' W  
 Purpose: Research Training Test  
 Other: \_\_\_\_\_ Time of Dive: 0814  
 Special Equipment: \_\_\_\_\_ Time of Surface: 1735  
 Cameras: Sony-Pro - DSPL still Time Submerged: 7:21  
 Manipulators: Hyco-Titan Time Thru Last Dive: 4039:23  
 Samplers/Sensors: CTD- Total Time to Dive: 4046:44  
 Dive Depth: 1670 m  
 Water Depth: 1670 m  
 Support Vessel: R/V Kaimikai-o-Kenaloa Water Temperature: 2.4 °C 1670m  
 Captain: Ross Barnes Visibility: 20 m

Dive Results/Remarks: Dive to survey west rift of Vailulu'u and establish sample sites. Collecting animals as we move upslope. Lend in a deep hole at 0953 at a depth of 1670m. Rugged pillow lava terrain. Move upslope to the East. 1127 Locate a favorable site on top of a pinnacle like formation to deploy our monitoring site. Depth 1667m. Deploy marker #6. Deploy charges #108 & #106. Deploy temp probe #28. 1140 Locate an active hydrothermal vent about 3m from marker #6. Ambient temp is 2.4 °C Vent temp is 8.1 °C. Collect bacterial mat in #8. 1257 Moving to the East. The rift terrain is very similar to Loihi's south Rift. Steep talus slopes of pillow ~~lava~~ debris up to a vertical wall of draping and truncated pillow formations topping out on a summit cone with the next slope showing on the sonar 60-70m to the East. There are also large lateral cracks large enough to get the into them. 1548 Moved upslope to 1183m. Deploy marker #7 and a temp. recorder 2 charges. Take a sediment scoop.

Pilot's Signature: Terry Kerby Date: April 5, 2005  
 Operations Director: Terry Kerby Date: April 5, 2005