

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: P-V 610 Date: March, 31, 2005  
 Observer 1: Colin Wollerman PIT  
 Affiliation: HURL sub ops. Dive Location: Vailulu'u Volcano, Samoa  
 Observer 2: Hubert Staudigel Latitude: 14° 13.135' S  
 Affiliation: SIO Longitude: 169° 04.175' W  
 Purpose: Research Training Test  
 Other: \_\_\_\_\_ Time of Dive: 0849  
 Special Equipment: \_\_\_\_\_ Time of Surface: 1741  
 Cameras: Sony-ROS-DSPL still. Time Submerged: 8:52  
 Manipulators: Titan-HYCO Time Thru Last Dive: 4030:31  
 Samplers/Sensors: CTD Total Time to Dive: 4039:23  
 Support Vessel: R/V Kaimikai-O-Kanaloa Dive Depth: 931m  
 Captain: Ross Barnes Water Depth: 931m  
 Water Temperature: 4.9°C @ 918m (in pit)  
 Visibility: 2m in bottom of pit.

Dive Results/Remarks: Vailulu'u exploration dive. 0923 Land on a steep slope of pillow basalts on the west side of the crater in 637m. Move upslope to the east. 1015 582m on Sasa peak, the highest point on Vailulu'u at a depth of 582m. Locate a good site to put out our monitoring site. 1034 582m. Deploy Craig Young current meter. Deploy charge #107. Deploy marker #2. Take sediment scoop #8. Collect a rock with anthemastis and coral. 1046 Move to the east to descend into the pit. 1136 909m. Descended into the pit moving easterly with a cliff face indicated by sonar on our starboard side. Visibility drops to 2 meters by the time we land in the pit. Move easterly to a depth of 931m. Cannot deploy a site due to poor visibility. 1210 Move up a slope to the north east in poor visibility. Such bacterial mat at 881m. 1257 Move upslope to the north. 1333 707m on top of new ~~coral~~.

Equipment Deficiencies: Eel city. We get video coverage of the peels coming out of the rocks. Deploy mapper #16, Marker #3 and charge #103. Marker #3 is lost in a hole when the end of the pillow breaks away. Locate an active vent near the site. 8.0°C. Deploy marker #4 and a temp recorder #32. Take nitrogen sample. Move upslope towards marker #1. 1526 922m Deploy #5 Charge #104 and temp recorder #4. Pilot's Signature: #4. Move up the wall to the breach Date: 1623 Locate marker #1. Deploy charge #105. Take a sediment scoop. 1636 Leave the bottom from 752m.

Operations Director: Pilot: Terry Kerby Date: April 4, 2005