

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-614 Date: April 9, 2005  
 Observer 1: Dave Butterfield  
 Affiliation: OE. University of Washington Dive Location: Monowai/Volcano, Kermadec.  
 Observer 2: \_\_\_\_\_ Latitude: 25° 48.296 S  
 Affiliation: \_\_\_\_\_ Longitude: 177° 09.968 W  
 Purpose: Research Training Test  
 Other: \_\_\_\_\_ Time of Dive: 0840  
 Special Equipment: \_\_\_\_\_ Time of Surface: 1709  
 Cameras: Sony-ROS-DSPK still Time Submerged: 8:29  
 Manipulators: Titan-Hyco Time Thru Last Dive: 4063:31  
 Samplers/Sensors: Fluid Sampler with Total Time to Dive: 4072:00  
4 gas tight bottles. Dive Depth: 1211m  
 Support Vessel: P/V Kaimikai-O-Kanaloa Water Depth: 1211m  
 Captain: Ross Barnes Water Temperature: 4.5°C  
 Visibility: 10m at bottom touchdown

Dive Results/Remarks: Dive to Monowai Volcano Caldera to take hydrothermal vent samples with the fluid sampler. The dive(sub) can only accommodate a crew of 2 due to the weight of the sampler. 0917 1211m On the bottom on a steep rocky slope with very poor visibility. Able to make out bottom less than 5m. 1009 Move upslope to contour depth for marker #8 at 1165m. 1029 Contour to the NW to marker #8. 1046 1165m Getting into area of hydrothermal activity. 1059 1165m at marker #8. Begin taking samples with fluid sampler and gas tight lupton samplers. 1234 Moving upslope to sample other vents. The area is covered with mussels and crabs. Altered rock formations are covered with mussels and tangled tube worms draped over the rock. 1443 Locate a hole with concentrated venting. Vent temp 52.5°C. 1519 1140m leave vigorous vent and crab antics to move upslope. 1555 1028m Summit area. Still observing active venting. Very turbid. 1557 Leave the bottom from 1028m.

Pilot's Signature: Terry Kerby Date: April 24, 2005  
 Operations Director: Terry Kerby Date: April 24, 2005