

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-613 Date: April 8, 2005  
 Observer 1: Max Cremer  
 Affiliation: HURL sub ops Pilot Dive Location: Monowai Volcano - Kermadec Arc  
 Observer 2: Jan Wright Latitude: 25°48.313' S  
 Affiliation: O.E. NIWA NZ. Longitude: 177°09.843' W  
 Purpose: Research Training Test  
 Other: \_\_\_\_\_ Time of Dive: 0817  
 Special Equipment: \_\_\_\_\_ Time of Surface: 1702  
 Cameras: Sony, ROS, DSPL still Time Submerged: 8:45  
 Manipulators: Titan, HYCO Time Thru Last Dive: 4054:46  
 Samplers/Sensors: Rosette, Bio Box, CTD, Gas Tights Total Time to Dive: 4063:31  
Major's Dive Depth: 1297m  
 Support Vessel: R/V Kaimikai-Kanaloa Water Depth: 1297m  
 Captain: Ross Barnes Water Temperature: 4.0°C @ 1297m  
 Visibility: Very poor vis. Less than 7m. at landing.

Dive Results/Remarks: Exploration dive to explore hydrothermal vent areas of Monowai Caldera. 0929 Land in steep rugged terrain with poor visibility in 1297m. 0943 Move to the SE conducting a search and survey of the ridge feature dived on yesterday. 1002 Move to the NW. Move upslope, then into midwater to a designated point then thrust to the bottom and start the next survey back upslope. 1049 Move in midwater SW to way point #3. 1107 1169m on bottom. 1110 Moving upslope to the NE. 1149 Collect shrimp with rosette. 1209 1176m Moving upslope to the NE. 1222 1080m seeing white deposits on grey sediment indicating signs of altered bottom from hydrothermal activity. 1228 1057m. See schirring from active hydrothermal vents and dense mussel beds with an abundance of fighting crabs. Ambient temp 4.0°C Vent temp. 17.5°C. 1336 Torch major samplers. Test diffused vent sites. Signs of elemental  
 Equipment Deficiencies: Sulfur deposits on the bottom. 1356 55.6°C temp. section samples #2 #3. Deploy marker #8 at 1165m. Collect tube worms. Final temp at #8. 57.1°C. 1557 Leave the bottom from 1166m. Make a normal recovery.

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