

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-624 Date: April 30, 2005
 Observer 1: Colin Wollerman
 Affiliation: HURL sub ops - PIT Dive Location: Rumble V volcano
 Observer 2: Ashley Rowden Latitude: 36°08.546' S
 Affiliation: NIWA New Zealand Longitude: 178°12.169' E
 Purpose: Research Training Test Time of Dive: 0809
 Other: _____ Time of Surface: 1606
 Special Equipment: _____ Time Submerged: 7:57
 Cameras: Sony, ROS, DSPL still, Dete Cam. Time Thru Last Dive: 4138:51
 Manipulators: Hyco - Titan Total Time to Dive: 4146:48
 Samplers/Sensors: Ribox, CTD, Temp probe, Majors Dive Depth: 651m
Gas tight, Rosette, sediment scoops rock box Water Depth: 651m
 Support Vessel: R/V Kaimikai-o-Kanaloa Water Temperature: 8.0°C
 Captain: Ross Barnes Visibility: 20m @ 651m

Dive Results/Remarks: Dive to survey for hydrothermal vent systems on Rumble V volcano. 0853 Land on a low angle sedimented slope at 651m. 0859 Move upslope to the WNW. 0922 549m. Signs of bacterial matt. Temp in sediment 12.0°C. 0951 497m. Collect a long worm like organism. 1006 452m. Locate live mussel beds. 1009 452m. Deploy marker #15 in area where the last dive here ended. 1020 Moving upslope to summit of cone. Encounter numerous serious entanglement hazards on summit. The summit area is made up of what appears to be basalt pinnacle formations. There are signs of active hydrothermal venting all around these pinnacle features as well as fishing and heavy gauge bottom and anchor lines strung across the bottom and floating in midwater. We move over the summit and drop down avoiding lines and land in a relatively clear area at 360m. We can see an active hydrothermal vent at the base of a pinnacle with lines on the bottom and floating overhead. We are able to maneuver to the vent to get samples. Collect shrimp in rosette sampler. Collect bacterial matt. Take 2 Major and gas tight sample. Vent temp. 39.7°C. Move down slope 1224 452m. Deploy #16 and do a complete circuit of the cone at 452m. 1530 452m. Leave site.

Pilot's Signature: Terry Kerby Date: 5/9/05
 Operations Director: Terry Kerby Date: 5/9/05