

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-618 Date: April 15, 2005
 Observer 1: Max Cremer - Pilot - HURL
 Affiliation: HURL sub ops pilot. Dive Location: Giggenbach Volcano
 Observer 2: Matthew Stott Latitude: 30° 02.240' S
 Affiliation: GNS New Zealand Longitude: 178° 43.226' W
 Purpose: Research Training Test
 Other: _____ Time of Dive: 0829
 Special Equipment: _____ Time of Surface: 1630
 Cameras: Sony - ROS - DSPL still Time Submerged: 8:01
 Manipulators: Titan, HYCO Time Thru Last Dive: 4095:17
 Samplers/Sensors: Bio Box Rosette Sampler, CTD Total Time to Dive: 4103:18
Gas tight samplers, Majors, Sed Scoops, Rock box Dive Depth: 191m
 Support Vessel: R/V Kaimikai-o-Kanaloa Water Depth: 191m
 Captain: Ross Barnes Water Temperature: _____
 Visibility: 25m

Dive Results/Remarks: Exploration dive to search for hydrothermal activity on Giggenbach volcano and collect biological and geological samples. 0854 land on a low angle sandy bottom, visibility 25m. 0920 Collect a pumice like rock with hydroic
0938 267m moved to the east. Locate diffused venting and bacterial mat. Get a warning from the surface of worsening wind and sea conditions. We decide to take water samples at this site in case the dive is cut short. Vent temp is 72.5°C. Water, bacteria, temp, and crust samples taken. 0942
Continue moving to the east. 1032 Investigate some shallow pit craters. 1106 191m locate vents with gas bubbles coming out of bottom. Deploy marker #10. Vent temp 99.9°C. Collect samples. 1200 Move to the NE. Begin moving up a steep talus slope of large sized pillow fragments. 1232 On the top of a large basalt cone of mostly talus and pillow formations at 63m
 Equipment Deficiencies: 1321 moved to the NE. Locate 2 rubble well, then mussel beds covered with white bacteria at 160m. Take remaining water samples from diffused vents. Collect large mussels. vent temp 95.5°C make a trip around the cone before leaving the bottom and locate vents with high volume gassing temp. 205°C.
 Pilot's Signature: Collect sediment scoops of sulfide crust. 1600 Leave the bottom.

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