

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-626 Date: May 2, 2005  
 Observer 1: Max Cremer  
 Affiliation: HURL sub ops Pilot. Dive Location: Brothers Volcano  
 Observer 2: Bob Embley Latitude: 34° 51.778' S  
 Affiliation: PMEL, Ocean Exploration Longitude: 179° 03.548' E  
 Purpose: Research Training Test Time of Dive: 0828  
 Other: \_\_\_\_\_ Time of Surface: 1652  
 Special Equipment: \_\_\_\_\_ Time Submerged: 8:24  
 Cameras: Sony - ROS - DSPL - HURL Data Cam Time Thru Last Dive: 4155:56  
 Manipulators: Titan - HYCO Total Time to Dive: 4164:20  
 Samplers/Sensors: Bio box, Rock box, Sediment Dive Depth: 1781m  
Scoops, Resette, Mejors, Gastights, CTD, Temp. Water Depth: 1781m  
 Support Vessel: R/V Kaimikai-o-Kanaloa Water Temperature: 3.1° @ 1778m  
 Captain: Ross Barnes Visibility: 20m

Dive Results/Remarks: Exploration dive to search for hot smokers and relocate hydrothermally active sites visited by Shinkai. 1020 On the bottom in 1781m on a steep rugged wall with poor visibility. Use heaviest stones to trim sub. Signs of altered terrain. Move upslope to the west. 1107 Bacterial matt. 39.0° at 1715m. 1126 1629m moving up a steep wall with 5m. Vis. 1149 1662m Locate chimneys. Move into a gully with a forest of tall sulfide chimneys. Locate Shinkai markers. Position Pisces V against the top of a tall chimney and take temperatures of smoking vent, then collect major samples. 205°. 1300 1616m Locate another hot smoker close to the bottom that offers a stable landing position. Temp. 290° Take gastight water samples. Deploy #17. 1346 Moved West. 1647m Locate more sulfide chimneys. Move upslope and try to contour to locate waypoint site. Very challenging terrain. Mass wasting and landslides have created deep canyon like features and overhanging rock walls. 1502 Thruster tilt will not  
 Equipment Deficiencies: go vertical. Leave the bottom from 1632m. Make a normal recovery

Pilot's Signature: Terry Kerby Date: 5/11/05  
 Operations Director: Terry Kerby Date: 5/11/05