

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-615 Date: April 10, 2005

Observer 1: Bill Chadwick

Affiliation: PMEL

Observer 2: Malcolm Clark

Affiliation: NIWA NZ

Purpose: Research Training Test

Other: \_\_\_\_\_

Special Equipment: \_\_\_\_\_

Cameras: Sony - ROS - DSP1

Manipulators: Titan Hyco

Samplers/Sensors: Bio Box, Gas tights, Majors,

sed scoops, Rosette, Rock box, temp probe, CTD.

Support Vessel: R/V Kaimihai-o-Kanaloa

Captain: Ross Barnes

Dive Location: Monowai Volcano - Kermadec

Latitude: 25° 48.213

Longitude: 177° 10.005

Time of Dive: 0920

Time of Surface: 1656

Time Submerged: 7:36

Time Thru Last Dive: 4072:00

Total Time to Dive: 4079:36

Dive Depth: 1228m

Water Depth: 1228m

Water Temperature: \_\_\_\_\_

Visibility: \_\_\_\_\_

Dive Results/Remarks: Dive to study site ridge in monowai Volcano Caldera to map area with image in ex sensor system.

1016 1228m Land in steep rocky terrain with poor visibility. altimeter not working. 1025 Move upslope to 1165m. 1040 Begin contour to the NW towards marker #8 to define SE boundary of vent field. 1050 At marker #8. 1065m. Moving upslope collecting samples. Marker #8 is about 10m from NW boundary of vent field. The vent field is about 30m wide at this depth. 1126 1143m Collecting samples in bio box 1159 1036m bottom visibility becoming turbid at this depth. 1200 Extensive mussel bed on a steep sediment bottom at 1025m. 4.1°C ambient. Take a bottom temperature in mussel field. 9.8°C On summit of ridge. Take a major sample in diffused vent. Take gas tight sample. 1311 Move to the NW. Locate one of the

Equipment Deficiencies: Suspectious mussel covered rock outcrops that is suspected to be a sulfide chimney. Collect a rock. Looks like basalt. Try mapping exercise. image in ex sensor not work. 1452 Move NW to unexplored cone. Locate venting and bacterial mat and a different type of bio to the ridge which is about 100m away.

Pilot's Signature: 1456 On top of cone at 990m. Leave bottom from 990m.

Pilot's Signature: Terry Kerby

Date: 4/24/05

Operations Director: Terry Kerby

Date: April 24, 2005