Rev. 10-22-04

# PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: ~~P4~~ PIV - 162 Date: OCTOBER 9, 2006

Observer 1: JAMES WHITE

Affiliation: UNIVERSITY OF OTTAGO, NEW ZEALAND Dive Location: LOIHI SEAMOUNT

Observer 2: REBECCA CAREY Latitude: 18° 56. 223' N

Affiliation: UNIVERSITY OF HAWAII Longitude: 155° 14. 936' W

Purpose: (Research) Training Test Time of Dive: 0806

Other: Time of Surface: 1651

Special Equipment: Time Submerged: 8:45

Cameras: SONY DV, ROS COLOR Time Thru Last Dive: 1165:41

Manipulators: ORION, HYCO Total Time to Dive: 1174:26

Samplers/Sensors: CTD-DO, BIO BOX Dive Depth: 1174 m

SEDIMENT SCOOPS Water Depth: 1174 m

Support Vessel: R/V KAIMIKAI-O-KANALOA Water Temperature: 3.8°C @ 1154 m

Captain: ROSS BARNES Visibility: GOOD, 15 m

Dive Results/Remarks: VOLCANICLASTICS DIVE. 0912 1054 m land on bottom. Environment is intermediate, 30° slope with larger, old pillow lavas interspersed with volcanic sediment. 0922 move NE toward sample site "D". 0945 1169m arrive at base of wall near site "D". 0949 1170 m begin sampling volcaniclastic layers. 1120 complete sampling of site "D". 1138 moving along the base of "D", encountering drop shot from P4-161 at 1174 m. 1150 moving S toward work site "G". 1255 1049 m find lavated sequences below ledge near position given for site "G" in the record. Moving downslope about 5m to begin sampling volcaniclastic layers. 1512 1048 m complete sampling, preparing to leave the bottom. ORION manipulator appeared out of control during the process of stowing and securing the science rack. 1525 1047m deployed Marker #52 with HYCO arm at the top of the sample site, at the edge of a plateau covered ~~black~~ with black volcanic sediment. 1530 leave bottom from 1047m, using soft ballast from 600m to support weathered ballonia. Normal recovery.

Equipment Deficiencies: Utility hydraulics control unreliable; ORION very difficult to manage.

Pilot's Signature: [signature] Date: October 10, 2006

Operations Director: [signature] Date: Oct. 12, 2006