

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-645 Date: July 5, 2005

Observer 1: Max Cremer Pilot

Affiliation: HURL sub ops

Observer 2: Craig Young

Affiliation: University of Oregon

Purpose: Research Training Test

Other: _____

Special Equipment: _____

Cameras: Sony, ROS

Manipulators: Titan, HYCO

Samplers/Sensors: _____

Support Vessel: R/V Keimikei-O-Kanaka

Captain: Ross Barnes

Dive Location: Vailulu'u Volcano, Samoa

Latitude: 14°12.967' S

Longitude: 169°03.636' W

Time of Dive: 0802

Time of Surface: 1716

Time Submerged: 9:14

Time Thru Last Dive: 4301:48

Total Time to Dive: 4311:02

Dive Depth: 825m

Water Depth: 825m

Water Temperature: 6.3°C @ 825m

Visibility: 2m in pit.

Dive Results/Remarks: Dive to catch eels on Nafanua summit and recover current meter from SW breach. 0852 Land on a steep slope of pillow formations in 4m visibility at 809m. Move upslope to the northeast. 0913 799m locate thick active bacterial mat on SW side of Nafanua. Collect samples. Continue upslope. 0957 At marker #4 at 708m. Deploy #116 & #15 charge. 1025 Move to the NW to Eel City North. 1114 708m At Eel City North collecting eels with net. Collect 5 eels. 1122 Return to marker #4 site. 1127 Descend Nafanua to the south. Run south in mid water and thrust down. 1159 825m at base of south caldera wall. Vis 3m. Move up wall to the south. Collect a-tip sponges at 746m. 1257 696m in South breach at current meter and marker #42 site. Deploy charges #119 & #120. Recover current meter. 1307 Begin contour along inside of caldera well to the east. 1343 719m Discover large active iron oxide chimneys. Very

~~Equipment Deficiencies: poor visibility on inside of wall. Move in and out of tight box canyons. 1428 723m large nontronite chimneys. 23.5°C. Area in Southeast breach is an outflow with turbid water. Will not deploy current meter here. 1618 Leave the bottom.~~

Pilot's Signature: Terry Kerby

Date: 7/25/05

Operations Director: Terry Kerby

Date: 7/25/05