

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: P5-861 Date: Sept. 8, 2016
 Observer 1: Greg Stone
 Affiliation: Conservation International Dive Location: Loihi
 Observer 2: Alan Eustace Latitude: 18° 54.311' N
 Affiliation: Conservation International Longitude: 155° 15.795' W
 Purpose: Research Training Test Time of Dive: 0826
 Other: _____ Time of Surface: 1735
 Special Equipment: _____ Time Submerged: 9:09
 Cameras: HD Mini Zeus 5D-ROS Time Thru Last Dive: 3777:33
 Manipulators: Titan 4 HYCO Total Time to Dive: 3786:42
 Samplers/Sensors: _____ Dive Depth: 1325m 4346ft
 _____ Water Depth: 1325m
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: _____
 Captain: Mike Hoshlyk Visibility: _____

Dive Results/Remarks: Two sub dive into the new pit on the Loihi submarine volcano. 0844 Land on a steep loose talus slope at 1197m. 0955 Move upslope to the NE towards the rim of the crater. 1016 1149m arrive at the edge of the scarp. Move N following the scarp. 1022 1104m locate marker #18. 510 samplers are still positioned around the marker. Pisces IV arrives at marker #18. Prepare to drop into pit. 1047 Begin descent into pit from marker #18. 1129 1325m at bottom of pit. Both subs together on bottom of pit. Deploy bait stations. Not much action at first. Mostly eels. 1202 About to move away to search for hydrothermal vents when a large female Pacific Sleeper shark appears. 1251 1324m. Move to the NE towards the old Jet Vent site. 1333 1295m locate vents in SE gully area. Collect sponge sample. Discover extensive venting. Discover several well formed beehive chimney structures. Located marker #36 just before the active vent field. Pisces IV locates marker #29

Pilot's Signature: Terry Kerby Date: 9/23/16
 Operations Director: Terry Kerby Date: 9/23/16

Over -

at old Jet Vent site, (was #28). 1436 1292m Sample #53.
Pisces IV is in vent field on a steep slope and has had
an Orion Manipulator failure and can't finish taking the
samples. 1455 Move to Pisces IV's position and land against
steep slope on Pisces IV's STBD side. Close sample valve and
take sample from P4 Hyco arm with P5 Titan 4 arm. Max
passes remaining samplers to Pisces V. 1500 Pisces IV
leaves the bottom from 1285m. 1514 1291m Take water
sample. 1B. Spooze sample #35. 1543 1291m Collect spooze
sample #43. Vent field is still in Tower vents area. Move
upslope. Locate marker #48 at 1280m. Move upslope
over dense active vents to the base of a vertical wall.
Move back down to Marker #48. 1608 Collect water sample.
Move back to bottom of pit. Bait almost all gone.
1619 1323m Leave the bottom.