

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-646 Date: July 6, 2005
 Observer 1: Colin Wollerman PIT
 Affiliation: HURL sub ops.
 Observer 2: Hubert Staudigel
 Affiliation: Scripps
 Purpose: Research Training Test
 Other: _____
 Special Equipment: _____
 Cameras: Sony, ROS
 Manipulators: Titan, HYCO
 Samplers/Sensors: Bio box, Rock box, Resette, Sediment Scoops Niskin
 Support Vessel: R/V Kaimikai-O-Kanaloa
 Captain: Ross Barnes

Dive Location: Vailulu'u Volcano, Samoa
 Latitude: 14°12.906'S
 Longitude: 169°03.617'W
 Time of Dive: 0804
 Time of Surface: 1644
 Time Submerged: 8:40
 Time Thru Last Dive: 4311:02
 Total Time to Dive: 4319:42
 Dive Depth: 987m
 Water Depth: 987m
 Water Temperature: 5.5°C @ 767m.
 Visibility: _____

Dive Results/Remarks: Survey/collecting dive into Vailulu'u's pit crater.
0853 767m Land on a steep basalt wall on the SW flank of the Nafanua cone inside the Vailulu'u pit crater. Move up the wall to the summit to collect eels. 0710 At marker #4 at Eel City South. No eels in traps. Move to Eel City North. Try netting eels for 45min. Catch about 15 but 14 get away. I am still developing my eel netting technique. We cannot spend more time with the eels and must move on to have enough time to accomplish the other dive goals. 1016 Move west and drop down into the pit crater. 1045 913m in the moat on the west end of the crater. Very poor visibility. See many dead animals in the moat. 1118 On NW end of crater at marker #5 down slope from the breach. Clear Vis. at 920m. Deploy charges 121 & 125. Recover charges 104, temp recorder & sed. scoop. 1137 Move to waypoint #4. Many dead animals in moat. Large dead fish & bacterial

~~Equipment Deficiencies:~~ slime. 1236 942m Follow a yellow stem up slope and discover white bacteria and active venting. 68.5°C - 81°C - 1312 Into extensive venting in what we believe are liquid CO₂ bubbles. Deploy marker #65 in area out of bubble zone. Deploy charges 123 & 124. Move to the SE into the basin East of Nafanua. Snoose samples. Move up SE wall of crater. 1655 leave the bottom from 700m

Pilot's Signature: Terry Kerby
 Operations Director: Terry Kerby

Date: July 8, 2005
 Date: July 8, 2005