

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____
 Observer Chuck Holloway (PIR) Wt. _____
 Observer Title/Affil. HURL sub ops.

Dive # PV-402
 Date Oct. 17, 1998

Observer Lloyd French Wt. _____
 Observer Title/Affil. Jet Propulsion Laboratory

Time of Dive 0813
 Time of Surface 1759
 Time Submerged 9:46
 Time Thru Last Dive 2550:24
 Total Time to Dive 2560:10
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.4°C @ 1328
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Location Loihi, Pele's Pit
 Lat. 18°54.25'N Long. 155°15.7'W
 Purpose: Research Training Demo

Other: _____
 Special Equipment:
 Camera (type) Video, Digital, Still
 Manipulator Titan, Hyco
 Other _____
 Support Vessel R/V Keimikai-O-Keneloa

Dive Results/Remarks: Dive to test JPL Jupiter Probe, collect samples from Ikaika vent site, and pilot training.
0916 1129m On the bottom on a steep talus slope. 0928
Move upslope to 1104m and contour East. 0928 Pass over marker #18 and begin descent into pit. 0945 1328m on bottom of pit. Move upslope to the NE to 1310m. 1014 1305m @ #10 (Hot vent site) Vent Temp. 165.9°C. To Lower Jet Vents. 164°C. 1136 1289m @ #15. Temp 165°C. Deploy JPL probe in vent. Probe not functioning properly. 1201
move up to top of Jet Vent Rock. @ 1286m. Move West toward well contact 50m away at 1287m depth. Move up vertical well to #7 site at 1255m. Temp. 134°C. Take major sampler. Test JPL probe. Deploy
 Equipment Deficiencies: JPL probe in vent. No results. JPL probe not functioning
Move down slope back to jet Vent Rock. Move to Hot Vent Well to explore area above HOT Vent site and confirm impressions of terrain above the Ikaika Vent site. 1347 Take temperature of site next to boulder. 115°C. Descend back to Ikaika site and check condition of samplers. 1533 Leave the bottom. Basket rim mounting breaks on surface dropping 2 majors and suspending JPL probe by safety wire to release. Diver in water to cut cables and secure line to probe. Release probe. Basket fixed by

Pilot Terry Kerby
 Ops. Mgr. [Signature]

Date 10/17/98
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Lost 2 major samplers over sand channel area
when sub collecting basket broke at surface.