

PISCES V DIVE REPORT

Pilot: MAX CREMER Dive #: PS-778 Date: SEPTEMBER 28, 2011
 Observer 1: SAM KAHNG
 Affiliation: HPU Dive Location: OFF KEPLAKEKUA BAY
 Observer 2: FRANK TRUSDELL (TRUSDELL) Latitude: N 19° 28.679'
 Affiliation: USGS / HVO Longitude: W 155° 57.475'
 Purpose: Research Training Test Time of Dive: 08:22
 Other: _____ Time of Surface: 1629
 Special Equipment: _____ Time Submerged: 8:07
 Cameras: OLINI-ZEISS HD, ROS ANALOG SD Time Thru Last Dive: 5255:29
 Manipulators: TITAN 4, HYCO Total Time to Dive: 5263:36
 Samplers/Sensors: SEABIRD CTD/DO/PH, HURL CTD-00, Dive Depth: 552m
2 BIOBOXES, 1 OPEN CRATE, DUST PAN Water Depth: 552m
 Support Vessel: R/V KAIPIKAI-O-KANALOA Water Temperature: REFER TO CTD LOG
 Captain: CLARY GUTZELT Visibility: GOOD 15-25m

Dive Results/Remarks: CORAL RECRUITMENT ON HISTORIC LAVA FLOWS DIVE.
0906 522m land on the bottom ~~in~~ on a steep slope with basaltic rubble and light sedimentation. SUB is very light, flood in about 40 lbs of water.
0917 move upslope to 450m. 0934 449m begin to contour E at 450m. 0947 451m collect 6cm² coral. Continue E. 1001 446m collect pink coral. Continue to contour at 450m until 1146. Dive upslope to 400m then contour W. 1202 at 402m, 1220 moving further upslope to about 140m instead of going W. On the way up, stop at 280m to collect small coral. Topped out at 1300 127m to collect very small and friable leptoseris (plate coral). Only partial specimens were recovered.
1340 begin to return to deeper water. 1345 138m collect rock sample near vent of spatter cone. 1418 arrive at 399m to begin contour to the NW. 1427 399m collect corallites, then contour at 400m to NW. 1448 403m arrive at northern boundary of lava flow. 1515 385m collect rock sample. 1521 continue to contour at 400m. 1544 400m move in mid-water to deeper waters to accommodate Koko's needs to maneuver during recovery. 1551 start ascent from 416m. Normal recovery.

Pilot's Signature: _____

Date: 9-29-11

Operations Director: _____

Date: 9-29-11

For equipment deficiencies, refer to maintenance logs.