

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: P5-914 Date: Nov 9, 2017
 Observer 1: Brendan Roark
 Affiliation: _____ Dive Location: East Northampton
 Observer 2: Blue Eisen Latitude: 25° 25.143' N
 Affiliation: HURL sub ops Longitude: 171° 58.543' W
 Purpose: Research Training Test Time of Dive: 0750
 Equipment Used: _____ Time of Surface: 1603
 Cameras: Mini Zeus HD - 1205-SD Time Submerged: 8:13
 Manipulators: Titan 4 - HYCO Time Thru Last Dive: 6147:58
 Samplers & Sensors: 2 Bio boxes Total Time to Dive: 6156:11
CTD Dive Depth: 737m
 Support Vessel: R/V Kamihai-O-Kenaloa Water Depth: 737m
 Captain: Mike Hoshlyk Water Temperature: 5.3° @ 737m

Dive Narrative: Two sub dive to conduct contour transect surveys and collect samples. 0802 P5 diving. 0842 737m. Land on a steep sandy slope with boulders. Must pick a sandy landing spot amongst the rocks. 0852 737m. Move upslope to the South. 0855 727m come across P4 descent wts from a previous dive. 0901 681m carbonate wall. Moved over a wall of manganese coated basalt pillow formations. 0913 P4 on the bottom in 765m. 0926 666m Collect corallium from wall. Blue holds sub in position with thrusters while I collect samples. 0930 635m. Moving upslope to the South. 0942 550m Start transect #1 along 500m contour to the East. 1001 551m end transect. Collecting samples. Started transect on clean scoured carbonate slope with many sand channels. Moving along top of vertical wall. Many corals on wall. 1026 558m Collecting samples off of wall. 1050 Moving

Pilot's Signature: Terry Kerby Date: 11-13-17
 Operations Director: Terry Kerby Date: 11-13-17

P5-914

along vertical wall collecting samples. Jars 5, 7, 8. I position sub on wall and Blue holds sub in position with forward thrust while I open boxes, place samples in boxes & Jars, then close boxes and move on to next sample.

1056 547m Genetic samples in Jars 9 & 10. 1109 539m

corallium genetic sample in Jar #13. Whole corallium secundum in bio box #1. 1128 549m Gold and purple in Jar 15.

1156 574m at base of wall. Collect live gold coral tree that has broken off and is laying at the base of the wall. 1218 569m Moved along base of wall searching

for large dead gold coral tree bases for aging and paleo samples. Discover a large dead gold coral tree about 4m long with very thick limbs. Lay tree across basket.

1310 571m. Move back up wall. Collecting samples.

Pisces IV arrives and gets video images of P5 on wall. P4 has filled all boxes and jars and has completed sampling at this site. P4 moves up wall. P5 has filled all boxes & jars with samples. 1015 582m Drop to base of wall to secure samples. Secure sampler and stow Titan manipulator and lose Titan hydraulics.

Lose utility hydraulics. Thrusters are horizontal. P4 leaves the bottom at 1342. P5 waiting for P4 to be recovered. 1440 582m. P5 leaves the bottom on soft

ballast. Move up wall as P5 ascends to 300m. 1538 On the surface. Divers in water to secure samples and raise sample basket frame so Pisces V can be recovered. 1551 On tow. 1558 Secure on deck.