Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: PI4-312 Date: NOVEMBER 2, 2016

Observer 1: NICOLE MORGAN

Affiliation: FLORIDA STATE UNIVERSITY

Observer 2: MCKENZIE SCHOEMANN

Affiliation: TEXAS A&M UNIVERSITY

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: MINI-ZEUS HD, ROS SD

Manipulators: ORION 7P, HYCO

Samplers/Sensors: ONE EMPTY BIO BOX, TWO BIO BOXES W/ 15 JARS EACH

Support Vessel: R/V KAIMIKAI-O-KANALOA

Captain: MIKE MOSHLYK

Dive Location: SOUTH HANCOCK SMT

Latitude: 29° 49.346'N

Longitude: 179° 03.770' ~~W~~ E Cr

Time of Dive: 0918

Time of Surface: 1637

Time Submerged: 8:19

Time Thru Last Dive: 2154:22

Total Time to Dive: 2162:41

Dive Depth: 780m

Water Depth: 780m

Water Temperature: not recorded

Visibility: GOOD, 15-20m

Dive Narrative: TWO-SUB DIVE TO SURVEY AND SAMPLE SEAMOUNT CORAL HABITAT: 0902 780m land on the bottom on a steep, scoured, basalt slope. 0906 move upslope to SSE. 0918 682m collect CORALLIUM LAUNUSA sample at 29°49.230'N, 179°03.757'E 0922 continue upslope to SE. 0927 679m collect corallium and cup coral sample next to a large SLADENIA REMIGER. 0949 continue upslope to SE. 0954 671m collect corallium. 0959 continue upslope. 1005 661m collect corallium. 1014 658m collect samples. 1020 continue upslope. 1028 650m collect corallium. 1040 continue upslope to SE. 1112 631m collect corallium. 1119 continue upslope SE. 1128 contour E between 575-600m. 1135 577m collect corallium samples. Sampling sequence complete at 29°49.219'N, 179°03.785'E. 1201 attempt to move upslope to 400m for transecting. This previously failed due to very strong currents (Ref. PI4-309). 1223 400m arrive at transect contour. There is no discernable current, perfect conditions for transecting in vertical terrain. 1239 400m START transect #1 to W from 29°49.036'N, 179°03.831'E. 1306 404m END transect #1 at 29°48.840'N, 179°03.587'E. 1309 continue to contour at 400m to W. 1318 402m START transect #2 to the W from 29°48.878'N, 179°03.512'E. —▷ OVER

Pilot's Signature: [signature] Date: 11-14-16

Operations Director: Terry Kerby Date: 11-14-16

1350 402m END transect #2 at 29°48.851'N, 179°03.212'E. PISCES V range is 1200m to the NE, communications are poor. Decide to return E to meet up with PS at dive's end. 1409 404m collect several bamboo coral stumps at 29°48.864'N, 179°03.216'E. Continue downslope to the E. 1510 rendezvous with PISCES V at 684m. Record footage and stills of PS sampling in challenging terrain, then settle down nearby for final position, 29°49.277'N, 179°03.947'E, at 682m. 1540 leave the bottom from 682m. Normal recovery.