Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-304 Date: OCTOBER 26, 2016

Observer 1: NICOLE MORGAN

Affiliation: FLORIDA STATE UNIVERSITY Dive Location: BANK 11, NWHI

Observer 2: ~~JOHN~~ Gr ~~SCHIEF~~ ELLEN BARTOW-GILLIES Latitude: 28°59.339'N

Affiliation: TEXAS A&M UNIVERSITY Longitude: 179°32.955'W

Purpose: (Research) Training Test Time of Dive: 1014

Other: Time of Surface: 1613

Special Equipment: Time Submerged: 5:59

Cameras: MINI-ZEUS HD, ROS SD Time Thru Last Dive: 2107:45

Manipulators: ORION 7P, HYCO Total Time to Dive: 2113:44

Samplers/Sensors: 2 BIO BOXES, 1 WATER SAMPLER CRATE WITH 2 SAMPLERS Dive Depth: 682m

Water Depth: 682m

Support Vessel: R/V KAIMIKAI-O-KANALOA Water Temperature: —

Captain: MIKE HOSHLYK Visibility: GOOD, 20+m

Dive Narrative: TWO-SUB SURVEY OF BANK 11, SAMPLING FOR CORAL AND RUNNING TRANSECTS. 1100 682m land on the bottom on a rocky slope interspersed with coarse sediment. There are some corals in sight. 1111 682m near the landing site, collect a fossil coral sample and a crysogorgia. 1120 moving S toward WP1, range 125m, bearing 170°. 1129 675m collect a coral sample. 1140 the PORT thruster control lever detaches. The toolkit misses the 1/16" allen wrench needed to reset the set screw. Continue dive by turning control shaft with thumb and index finger. 1157 662m collect water sampler #2. 1200 move upslope to 600m. 1205 657m collect a sample of a purple coral growing on madrepora ("dendrophillid"). 1210 continue upslope to 600m. 1224 632m collect live yellow madrepora, then continue upslope. ~~1224 632m~~ Gr 1236 600m attempt to collect small anemonia but it quickly retracts into the sediment. Decide to continue upslope to 500m. 1313 570m collect a large fossil gerardia stump at 28°59.040'N, 179°33.029'W. 1329 Improvise a fix for the broken pilot's screen but it needs to stay detached from its protective case for the rest of the dive. 1345 502m perched on a very steep wall, standing by to start transect #1. 1349 Start transect #1 from 28°58.975'N, 179°33.023'W.

OVER →

Pilot's Signature: [signature] Date: 10-30-16

Operations Director: Terry Kerby Date: 11.10.16

1415 498m End transect #1 at 28° 58.925'N, 179° 32.738'W. Move about 2 miles further E to new transect #2. 1431 500m start transect #2 from 28° 58.976'N, 179° 32.740'W. 1457 End transect #2 at 498m at 28° 58.586'N, 179° 32.684W. 1506 collect a sea pen, then move to N. 1521 478m collect second water sample at 28° 58.640'N, 179° 32.777'W. 1435 leaving the bottom from 477m. Normal recovery.