Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-337 Date: OCTOBER 27, 2017

Observer 1: NIKKI MORGAN

Affiliation: FLORIDA STATE UNIVERSITY Dive Location: EAST NORTHAMPTON SEAMOUNT

Observer 2: DANIELLE SCHIOMENTI Latitude: 25° 17.545' N

Affiliation: TEXAS A&M UNIVERSITY Longitude: 172° 00.924' W

Purpose: (Research) Training Test Time of Dive: 0833

Other: Time of Surface: 1430

Special Equipment: Time Submerged: 5:57

Cameras: OIVI-ZEUS HD, ROS SD Time Thru Last Dive: 2294:05

Manipulators: ORION 7P, HYCO Total Time to Dive: 2300:02

Samplers/Sensors: 3 BIO BOXES Dive Depth: 800m

Water Depth: 800m

Support Vessel: R/V KAIMIKAI-O-KANALOA Water Temperature: not recorded

Captain: MIKE HOSKYN Visibility: GOOD, 15-20m

Dive Narrative: CORAL HABITAT SURVEY IN PROTECTED MONUMENT WATERS. P4 is unusually heavy during descent. Pumped out almost 100 lbs of water ballast on the way down. Must have made a mistake during pre-dive ballasting although records seem plausible. 0918 800m land on the bottom on a steep, basaltic slope with large pockets of sediment. 0932 ORION manipulator is not working. No hydraulic pressure, but all data screens look normal. Decide to run all transect and observation dive. 0955 move upslope W to 600m. 1002 599m START transect #1 to S at 600m from 25°17.542'N, 172°01.105'W. 1022 END transect #1 at 25°17.253'N, 172°01.000'W. 1028 contouring S along a vertical carbonate wall for about 100m. 1038 603m START transect #2 to S at 600m from 25°17.202'N, 172°00.981'W. 1101 603m END transect #2 at 25°17.091'N, 172°01.322'W. 1105 contour at 600m for about 100m. 1114 603m START xect #3 at 600m to W from 25°17.118'N, 172°01.401'W. 1137 END transect #3 at 25°17.194'N, 172°01.733'W. 1144 moving upslope through very steep and vertical carbonaceous terrain to 400m. 1210 400m START transect #4 at 400m to E from 25°17.358'N, 172°01.750'W, traversing ledges and heterogeneous carbonate

Load pan. → over →

Pilot's Signature: [signature] Date: 11-4-17

Operations Director: Jerry Kerby Date: 11-8-17

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1226 404m END transect #4 at 25° 17.311'N, 172° 01.425'W.

1230 contour at 400m for about 100m.

1238 403 m START transect #5 at 400m to E from 25° 17.362'N, 172° 01.352'W.

1254 402m END transect #5 at 25° 17.653'N, 172° 01.283'W.

1302 contour at 400m to E for about 100m.

1310 402m START transect #6 to N at 400m from 25° 17.746N', 172° 01.279'W. Traversing an intermediate, smooth carbonate slope with fairly abundant STYCHOPATHES and CALLOGORGIA.

1329 401m END transect #6 at 25° 18.025'N, 172° 01.433'W, in an area of steep and undercut carbonate.

1340 standing by for clearance to leave bottom, exploring the general area of holes and pockets in the carbonate cliff. All transects are complete and the surface crew welcomes the opportunity to get a head start on manipulator repair.

1356 346 m leaving the bottom from 25° 17.987'N, 172° 01.426'W. Normal recovery.