Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MARK CREMER Dive #: P4-338 Date: ~~10 28~~ Cr OCTOBER 28, 2017

Observer 1: NIKKI MORGAN

Affiliation: FLORIDA STATE UNIVERSITY

Observer 2: ALLISON METCALF

Affiliation: FLORIDA STATE UNIVERSITY

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: MINI-ZEUS HD, ROS SD

Manipulators: ORION 7P, HYCO

Samplers/Sensors: 3 BIO BOXES

Support Vessel: R/V KAIMIKAI-O-KANALOA

Captain: MIKE MOSHLYK

Dive Location: EAST NORTHAMPTON SEAMOUNT

Latitude: 25° 25.140'N

Longitude: 171° 58.550'W

Time of Dive: 0826

Time of Surface: 1548

Time Submerged: 7:22

Time Thru Last Dive: 2300:02

Total Time to Dive: 2307:24

Dive Depth: 728m

Water Depth: 728m

Water Temperature: not recorded

Visibility: VERY GOOD, 20+m

Dive Narrative: CORAL HABITAT SURVEY IN PROTECTED MONUMENT WATERS. 0913 728m land on the bottom on a steep, sandy slopes with large basalt outcrops. There is very little if any current. 0920 move upslope toward the 600m contour. 0926 716m collect a sample of CHRYSOGORGIA. Orion manipulator hydraulic pressure is unsteady. 0952 continue upslope ~~up~~ over the basaltic core of the seamount. 0944 670m now in carbonaceous benain, collecting a PRIMNOID and a ZOOANTHID. Continue upslope. 0954 622m locate a richly inhabited outcrop, among otherwise fairly barren, clean swept carbonate, at 25°25.061'N, 171°58.560'W. Collect PARACIS, ANTHOMICEA, H. LAUUNSA, an orange octocoral and a cup coral of this location. 1022 continue upslope across ancient, clean swept carbonate. 1027 597m ORION manipulator fails during attempt to collect ACANELLA and KULAMANAMANA. 1041 START transect #1 at 600m to E from ~~25°24.888'N, 171°58.221W~~ Cr 25°25.043'N, 171°58.574'W. Patches of sand alternating with clean carbonate. 1059 599m 25°24.888'N, 171°58.221 END of transect #1. 1101 contour at 600m to E for about 5 minutes. There is a strong current out of E. 1107 598m current now changed to easterly. 1114 598m START transect #2 to E at 600m. from 25°24.824, 171°58.180'W. → OVER →

Pilot's Signature: [signature] Date: 11-5-17

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

PY-338

1136 601m END transect #2 at 25°24.582'N, 171°57.961'W.
Contour at 600m for about 100m to E.

1145 600m START transect #3 at 600m to SE from 25°24.509'N, 171°57.928'W.

1206 END transect #3, 601m, 25°24.233'N, 171°58.025'W.

1215 Move upslope toward the 400m contour, ascending a vertical carbonate wall with an astounding number of large KULAMANAMANA.

1242 399m START transect #4 to N at 400m from 25°24.247'N, 171°58.~~025~~ 119'W.
There is a strong current, making for slow progress.

1305 400m END transect #4 at 25°24.542'N, 171°58.192'W. (The dominant species during transect #4 was LEPIDISIS, large and healthy looking.)*

1311 Contour at 400m for about 100m. Observe an EHU in barren rotolith covered terrain.

1324 400m START transect #5 at 400m to NW from 25°24.602'N, 171°58.234'W.

1342 End transect #5 at 25°24.783'N, 171°58.495'W.
All rotolith covered, gentle slope, no macro fauna.

1347 Contour at 400m to W for about 100m.

1354 START transect #6 at 400m to W from 25°24.833'N, 171°58.555'W.

1420 END transect #6 at 400m, at 25°24.957'N, 171°59.120'W.
Terrain has become somewhat more varied, still very little fauna.
Move downslope to explore general area for remainder of dive.

1446 502m rendezvous with PISCES V for a photo and GoPro opportunity.

1501 552m leave the bottom from 25°25.048'N, 171°58.823'W.
Normal recovery.

* This is incorrect. LEPIDISIS was found earlier, on the way to the starting position for transect #4.