Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-311 Date: NOVEMBER 1, 2016

Observer 1: NICOLE MORGAN

Affiliation: FLORIDA STATE UNIVERSITY

Observer 2: TRAVIS FERGUSON

Affiliation: FLORIDA STATE UNIVERSITY

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: MINI-ZEUS HD, ROS SD

Manipulators: ORION 7P, HYDRO

Samplers/Sensors: ONE EMPTY BIO BOX

TWO BIO BOXES W/ 15 JARS EACH

Support Vessel: R/V KAIMIKAI-O-KANALOA

Captain: MIKE HOSHLYK

Dive Location: SOUTH HANCOCK SMT

Latitude: 29° 46.617'N

Longitude: 179° 03.879'E

Time of Dive: 0833

Time of Surface: 1615

Time Submerged: 07:42

Time Thru Last Dive: 2146:42

Total Time to Dive: 2154:22

Dive Depth: 651 m

Water Depth: 651 m

Water Temperature: not recorded

Visibility: FAIR, 10-15 m

Dive Narrative: TWO-SUB DIVE TO DETERMINE POSITION AND STATUS OF LANDER DEPLOYED FROM THE SURFACE THE PREVIOUS NIGHT, AS WELL AS SAMPLING AND SURVEYING SEAMOUNT CORAL HABITAT, TIME PERMITTING. 0912 593m land on the bottom on an intermediate slope, sandy, with MADREPORA debris. The 27kHz pinger/locator beacon is balled on the lander was clearly audible during the approach to the bottom. 0919 Lander position, per drop site, ranges 250 m, bearing 050°. Move to NE. 0921 PISCES V locates the lander, moving ENE to rendezvous and obtain footage of lander location. 0944 555m at the lander with PISCES V, position 29°46.665'N, 179°03.951'E. Lander sits upright on a gentle, sandy slope about 10-15m from a steep drop off. There is a parallel set of heavy gauge line near the lander on the bottom. Returning to SW, looking for a sample site that was spotted near the initial landing position. 0959 585m collecting samples at 29°46.636'N, 179°03.879'E. 1111 578m completed sampling in this general area, one bio box is filled. Move downslope to about 650m. 1129 646m at the bottom of a vertical wall, waiting for a fine silt cloud to clear. There is no current at this location 29°46.664'N, 179°03.806'E.

→ OVER

Pilot's Signature: _____ Date: 11-15-16

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

1128 (cont.) collect a fossil MADREPORA sample. Continuing at 650m to E. 1155 648m collecting samples on a vertical outcrop, position is 29°46.661'N, 179°03.790'E. 1255 completed sampling in this general area which also had a heavy gauge line, suspended about 1ft above the sea bed. Second bio box is full. Moving 700m upslope to NE to meet PISCES V on the summit of the pinnacle. 1345 438m arrive at the top of the pinnacle in a heavy current, PISCES V is nearby but not in sight. Pinnacle summit is swept clean with occasional basaltic outcrop. Collect one colony of a blue coral at 29°46.833'N, 179°03.898'E. 1352 move downslope to NE. 1440 593m continuing a downslope traverse of a largely smooth, homogeneous plain slope. 1503 651m begin to move upslope, near vertical, to NNW, from 29°47.015'N, 179°04.314'E. 1528 450m leaving the bottom from 29°47.136'N, 179°04.251'E.

Normal recovery.