Rev. 09-06-12

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-324 Date: SEPTEMBER 17, 2017

Observer 1: NIKKI MORGAN

Affiliation: FLORIDA STATE UNIVERSITY

Observer 2: FAITH KRAMER

Affiliation: TEXAS A&M 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: KAMAU SEAMOUNT

Latitude: 32° 19.455' N

Longitude: 172° 55.028' E

Time of Dive: 0832

Time of Surface: 1553

Time Submerged: 7:21

Time Thru Last Dive: 2216:06

Total Time to Dive: 2225:27

Dive Depth: 632m

Water Depth: 632m

Water Temperature: 6.6°C @ 632m

Visibility: GOOD, 15-20m

Dive Narrative: CORAL HABITAT AND TRAWL NET IMPACT SURVEY DIVE.
0918 632m land on the bottom at 32° 19.433' N, 172° 53.028' E, on an intermediate slope, carbonate with some sediment pockets. 0924 move upslope to SW. 0933 609m collect a cup coral at 32° 19.379' N, 172° 52.954' E. 0939 continue upslope to SW. 0946 590m collect an older, small coral stump at 32° 19.350' N, 172° 52.925' E. 0952 move upslope to 500m. 1004 568m collect BATHYPATHES at 32° 19.266' N, 172° 52.817' E. 1013 continue upslope to W. 1028 533m collect ACANTHOGORGIA, ERRILOPSAMMIA(?), BATHYPATHES(?) and a BATHYDORUS like sponge at 32° 19.307' N, 172° 52.789' E. 1100 499m START transect #1 at 500m to S from 32° 19.288' N, 172° 52.737' E. 1124 END transect #1 at 32° 18.984' N, 172° 52.766' E. 1134 500m collect a sponge sample, possibly POECILLASTRA, at end transect #2 position. 1137 move about 100m along the 500m contour. 1141 503m collect CALLOGORGIA at 32° 18.926' N, 172° 52.779' E. 1150 START transect #2 at 500m to S from 1141 position. 1212 503m END transect #2 at 32° 18.638' N, 172° 52.879' E. 1220 move about 100m along the 500m contour. 1229 501m START transect #3 at 500m to S from 32° 18.548' N, 172° 52.819' E. 1249 END transect #3 at 499m, 32° 18.245' N, 172° 52.953' E.

—D OVER—D

Pilot's Signature: Date: 9-19-17

Operations Director: Terry Kerby Date: 9-25-17

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1255 Standing by for P5 to close on P4 before a 2000m move to SW.

1300 Move SW foward the 400m contour.

1307 483m collect a corallium and a PLEXAURID at 32° 18.176'N, 172° 52.898'E.

1319 Continue upslope to SW.

1337 457m collect a ~~PA~~ PRIONOID at 32° 17.969'N, 172° 52.598'E.

1344 Continue to WSW foward 400m contour. Transiting through astoundingly flat and smooth carbonate pavement.

1413 459m collect LEIOPATHES at 32° 17.982'N, 172° 51.861'E.

1425 Continue SW.

1438 399m arrive at the 400m contour.

1443 START transect # 4 at 400m to S from 32° 17.912'N, 172° 51.785'E.

1506 404m END transect # 4 at 32° 17.734'N, 172° 51.512'E.

1513 Encounting a very strong downslope current allowing for only very limited maneuverability of the sub. Decide to leave the bottom slightly prematurely to avoid possible damage to sub due to the strong current.

1517 leaving the bottom from 406m.
Normal recovery.