

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: P5-875 Date: Oct 31, 2016
 Observer 1: Brendon Roark
 Affiliation: TAMU Dive Location: S. End SE Hancock, ^{CVW} #1
 Observer 2: Kelci Miller Latitude: 29°46.502' N
 Affiliation: TAMU Longitude: 179°04.046' W
 Purpose: Research Training Test
 Equipment Used:
 Cameras: Mini Zeus HD - ROS 5D Time of Dive: 0750
 Manipulators: Titan 4, HYCO Time of Surface: 1706
 Samplers & Sensors: CTD, Bio Boxes Time Submerged: 9:16
 Time Thru Last Dive: 3864:18
 Dive Depth: 766m 2512ft
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Depth: 766m
 Captain: Mike Hoshlyk Water Temperature: _____

Dive Narrative: 0844 Land in steep sandy terrain with basalt outcrops in 766m. 0854 766m move upslope to 700m. Moving upslope collecting corals. 0942 start 650m transect into an area of extreme entanglement hazards. All heavy gauge lines laying on the bottom. No floating lines so far. Proceed with caution. 1016 End transect. Moved along steep slope into vertical terrain with numerous spans of heavy gauge fishing/dredge lines. Locate many dredge stones and coral tangle nets. Will not continue 650m transect to the NE due to entanglement hazards. Entanglement hazards manageable in this area with heavy gauge dredge line lying on the bottom. Discover numerous examples of red coral trees that had been broken off by the dredging that are regenerating in the madrapora coral debris. This madrapora coral base seems to support other broken coral species as well. 1031 Pisces IV moves upslope to 600m. 1032 Pisces V moving upslope

Pilot's Signature: Terry Kerby Date: 11/6/16
 Operations Director: Terry Kerby Date: 11/6/16

to 550m. Encounter many heavy gauge dredge lines, tangle nets and dredge weights laying on the bottom as we move upslope. Recording evidence of dredge destruction. Many red coral trees that have been broken off their basalt bases are still alive and regenerating branches up from the prone tree to feed in the current. Collecting genetic samples from these trees.

1127 Start 550m transect to the S. 1150 558m End transect. Moved along a steep to vertical carbonate wall.

1204 Moving downslope to 600m. 1237 Start 600m transect. 1255 604m End transect. 1321 Moving upslope to the East to the top of the pinnacle. Steep clean carbonate with soft corals and branched bamboo.

Encounter a strong downslope current along a vertical wall.

1351 495m Current is too strong to make headway up wall

1356 500m Start 500m transect to the N along steep carbonate. 1418 End transect. 1418 Moving to the SE.

Searching for a position to deploy the ladder in a zone with precious corals. Had located a steep sandy chute in the rugged basalt terrain early in the dive. A sandy drainage chute between two walls with precious corals growing on the walls. It will make a small target drop zone with vertical terrain all around. There are no precious corals in the low carbonate on the dome. 1512 Start transect in steep carbonate terrain.

1532 304m Stop transect. Pisces IV left the bottom at 1530. 1541 start 300m contour to the West.

1600 End transect. 1610 300m Move SW. 1628 339m Leave the bottom.