

**PHOTO IDENTIFICATION GUIDE OF THE BENTHIC
TAXA INHABITING THE MESOPHOTIC REEFS OF
THE FLORIDA KEYS NATIONAL
MARINE SANCTUARY**

**PHOTO IDENTIFICATION GUIDE
1st Edition**



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Florida Keys National Marine Sanctuary**

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We thank the crews of the University of Miami R/V *F.G. Walton Smith* and the *Mohawk* ROV (owned by the National Marine Sanctuary Foundation, operated by Jason White and Eric Glidden, the University of North Carolina at Wilmington [UNCW] Undersea Vehicle Program) for their excellent work and expertise during this expedition. The survey of the mesophotic reefs was a collaboration of CIOERT at HBOI-FAU, CIOERT at UNCW, and NOAA National Marine Fisheries (NMFS).

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Page 1 Cover Caption:

Mini-mound mesophotic reef (32-37 m), NE of Elbow Reef, off Key Largo, Florida; Corals- *Montastraea cavernosa*, *Agaricia agaricites*, *Siderastrea siderea*, *Millepora alcicornis*; Sponges- *Agelas tubulata*, *Agelas schmidtii*, *Petrosia* sp., *Niphates digitalis*, *Niphates erecta*; Octocorals- *Icilogorgia schrammi*, *Antillogorgia* sp., *Erythropodium caribaeorum*; Macroalgae- *Halimeda* sp., crustose coralline algae (201908142_T-16-34-20_0274 ALT.jpg).

INTRODUCTION

A 17-day research cruise was conducted August 12-29, 2019 by the Cooperative Institute for Ocean Exploration, Research, and Technology (CIOERT) at Harbor Branch Oceanographic Institute, Florida Atlantic University (HBOI-FAU) on the University of Miami ship R/V *F.G. Walton Smith* with the *Mohawk* remotely operated vehicle (ROV).

Two legs of the expedition were conducted. Leg 1 consisted of ROV dives with the primary objective to document and characterize the benthic habitats, benthic communities, and fish assemblages of the mesophotic (30-100 m) coral ecosystems and deep rariphotic (>100 m) zones

within and adjacent to the Florida Keys National Marine Sanctuary (FKNMS) (Figs. 1-3, Table 1). Leg 2 consisted of technical scuba dives conducted within the FKNMS and Tortugas Ecological Reserves (TER) to collect corals for population genetics studies. This photo album is for Leg 1 ROV dives only within the mesophotic and rariphotic zones of the FGNMS and adjacent areas. Additional dives that are not included herein were made on some shallow reefs (<30 m) within the FKNMS and TER and also in Pulley Ridge HAPC in the Gulf of Mexico. Previously, HBOI CIOERT surveyed with ROV the region between the TER South and the western border of the FKNMS (Reed et al., 2016, 2017). These dives only found mostly soft bottom habitat, along with some hard bottom, reef habitat primarily at depths less than 30 m in this region. The western region of the northern TER is shallow reef habitat (Reed et al., 2016, 2017), but the west facing fore reef slope abruptly ends in flat sand around 30-34 m and is not included in this current photo guide. This region was described in Reed et al. (2016, 2017). We also have described ROV and submersible dives within the rariphotic zone of the south slope of TER South, primarily along Miller's Ledge south of Riley's Hump (Reed et al., 2016, 2017). Weaver et al. (2006) first described the deep-water reef fishes and multibeam bathymetry of this region of Miller's Ledge.

This publication is the first taxonomic identification photo guide of the benthic macrobiota for the mesophotic coral reefs of the FKNMS. This is a first step towards the characterization of a highly diverse and poorly known component of these unique deep-water benthic communities. From 2011 to 2019, NOAA Fisheries and HBOI-FAU CIOERT surveyed with ROV the shelf-edge and deep-water Marine Protected Areas (MPAs) and Habitat Areas of Particular Concern (HAPCs) of the southeastern US extending from South Florida to North Carolina, which covered 529 km² of sea floor at depths of 48 to 1240 m along the continental shelf. ROV photographic and video transects recorded 43,542 images. From these images, 278 photographs were selected which represented common sponge morphotypes distinguished while interpreting the ROV photo transects. This resulted in a photographic field guide of the sponges associated with these shelf-edge MPAs and HAPCs (Diaz et al., 2021). Many of these are within the mesophotic and rariphotic depth zones. We also have three photographic field guides for the mesophotic reefs of Cuba, including a sponge guide (Diaz et al., 2019), a macroalgal guide (Martínez-Daranas et al., 2018), and fish guide (David et al., 2018). Some of these species will overlap with what we have found on the FKNMS mesophotic reefs.

The data from this cruise establish current baseline information to be referenced and compared to future research cruises to identify the long-term health and status of these important ecosystems. These data are made available to the SAFMC, NOAA Fisheries, NOAA Deepsea Coral Research and Technology Program (DSCRTP), NOAA Coral Reef Conservation Program (CRCP), NOAA Mesophotic Reef Ecosystem Program, and NOAA Marine Sanctuaries to assist management on these habitats and key species.

Taxonomic Information

In this guide each species is presented with the following data: an *in situ* and/or lab image, the lowest available scientific name, species author/date, higher taxonomy, depth and location of the specimen, taxonomic identifier, and the image file name (bottom of image). The species authority and scientific names reflect the most current classification provided in the World Porifera Database (Van Soest et al. 2021). If a specimen was collected, a lab and/or *in situ* image is included with the HBOI sample number at the bottom right of the image (e.g., 24-VIII-19-1-003). Some photographs

show two laser dots that are 10 cm apart; however, in some cases the image has been cropped to show the species with more clarity. Locations of the dives (Table 1) are shown in Figs. 1-3. The species are organized taxonomically (Table 2, Table of Contents).

Photo identifications for this guide were made by the following: Porifera- María Cristina Díaz, Shirley A. Pomponi, John Reed; macroalgae- M. Dennis Hanisak, Kate Beckett; corals- John Reed, Joshua Voss, Michael Studivan, Alexis Sturm; Bryozoa- Judy Winston; misc. taxa- J. Reed. Identifications of collected sponge samples were made from microscopic examination by M.C. Diaz and S.A. Pomponi. Some species represent undescribed species, new to science. These species are indicated with an “^N” after the morphospecies name at the top of the image. Further studies are required to evaluate these taxa, including comparative studies of previous collections and/or literature. An identification qualifier field includes: *= Identification from image only; **= Identification a collected physical specimen. We recognize that identifications of some taxa, and especially sponges, cannot be confirmed without a specimen to examine, so identifications with an * should be considered as tentative.

Specimens collected during the cruise may also be reviewed in a new website that was recently launched by HBOI-FAU (<https://shinyapps.fau.edu/app/bmr>). This is an access portal to the HBOI Marine Biotechnology Reference Collection (MBRC) database. MBRC has archived over 35,000 marine specimens from all over the world. The collections began in 1984 and were made to depths of 900 m by a multitude of methods including submersibles, ROVs, scuba, etc. and include marine invertebrate and algae taxa, as well as geological specimens. Users can access taxonomic, habitat, and location data as well as *in situ* and lab images, and *in situ* video clips of the specimen in its habitat.

Table 1. *Mohawk* ROV dive sites within mesophotic (30-100+ m) and deep rariphotic (100-120 m) zones of the Florida Keys National Marine Sanctuary (FKNMS) and adjacent areas during the HBOI CIOERT expedition on the R/V F.G. Walton Smith, August 13-20, 2021.

| Site # | ROV Dive # | Location | MPA Status | Latitude | Longitude | Depth (m) |
|--------------|------------|---|---------------|--------------|--------------|-----------|
| 13-VIII-19-1 | 19-01 | Key Largo, E of South Carysfort Reef, Mesophotic Reef | FKNMS | 25°13.0874'N | 80°11.4900'W | 28-38 |
| 14-VIII-19-1 | 19-02 | Key Largo, NE of Elbow Reef, Mesophotic Reef | FKNMS | 25°09.5510'N | 80°13.1450'W | 44-51 |
| 14-VIII-19-2 | 19-03 | Key Largo, NE of Elbow Reef, Mini-Mound Reef | FKNMS | 25°09.3570'N | 80°13.9470'W | 33-37 |
| 15-VIII-19-1 | 19-04 | Key Largo, E of Grecian Rocks, Mesophotic Reef | FKNMS | 25°06.5470'N | 80°15.6880'W | 44-53 |
| 15-VIII-19-2 | 19-05 | Key Largo, E of French Reef, Mesophotic Reef | FKNMS | 25°02.2570'N | 80°19.1100'W | 43-49 |
| 16-VIII-19-1 | 19-06 | Cudjoe, SE of Looe Key, Deep-water Mound | FKNMS | 24°29.9220'N | 81°26.3900'W | 90-91 |
| 16-VIII-19-2 | 19-07 | S of Big Coppitt, Pelican Shoal Reef | FKNMS | 24°29.5070'N | 81°35.5650'W | 17-38 |
| 17-VIII-19-1 | 19-08 | Key West, SW of Sand Key, Deep-water Ridge | Outside FKNMS | 24°24.0190'N | 81°55.2870'W | 114-122 |
| 17-VIII-19-2 | 19-09 | Key West, SW of Sand Key, Deep-water Ridge | Outside FKNMS | 24°24.0200'N | 81°55.2630'W | 112-121 |
| 17-VIII-19-3 | 19-10 | SW of Marquesas, Deep-water Warsaw Sinkhole | Outside FKNMS | 24°21.6050'N | 82°19.4300'W | 96-116 |

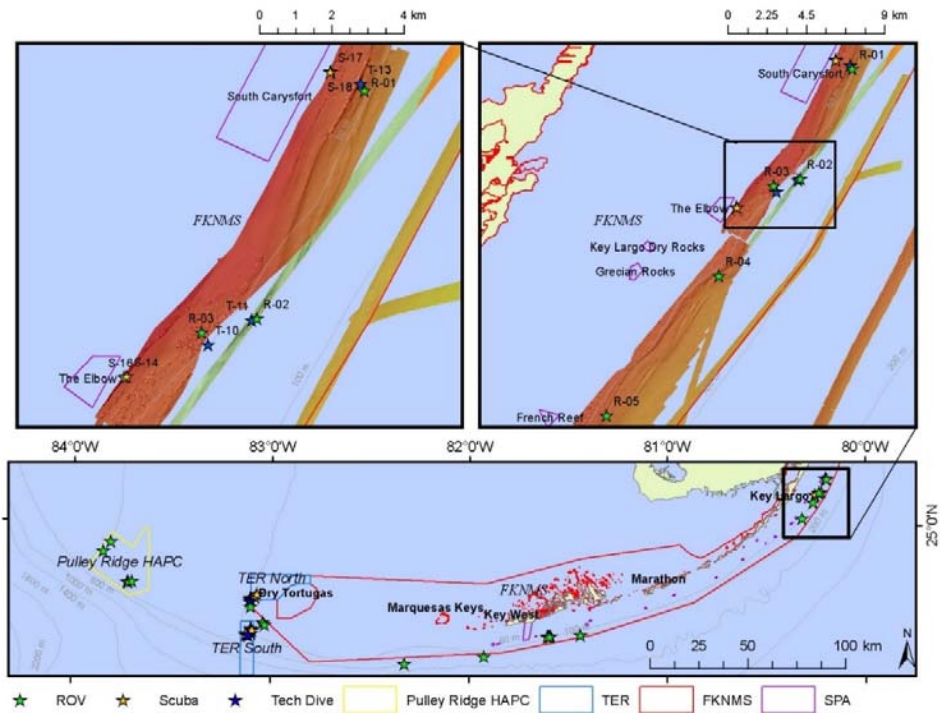


Figure 1. Mesophotic and rariphotic dive sites (30-120 m) off the upper keys in the Florida Keys National Marine Sanctuary (red polygon) made by HBOI-FAU CIOERT with UNCW *Mohawk* ROV, August 12- 29. Dives off Tortugas and Pulley Ridge are not included in this photo guide.

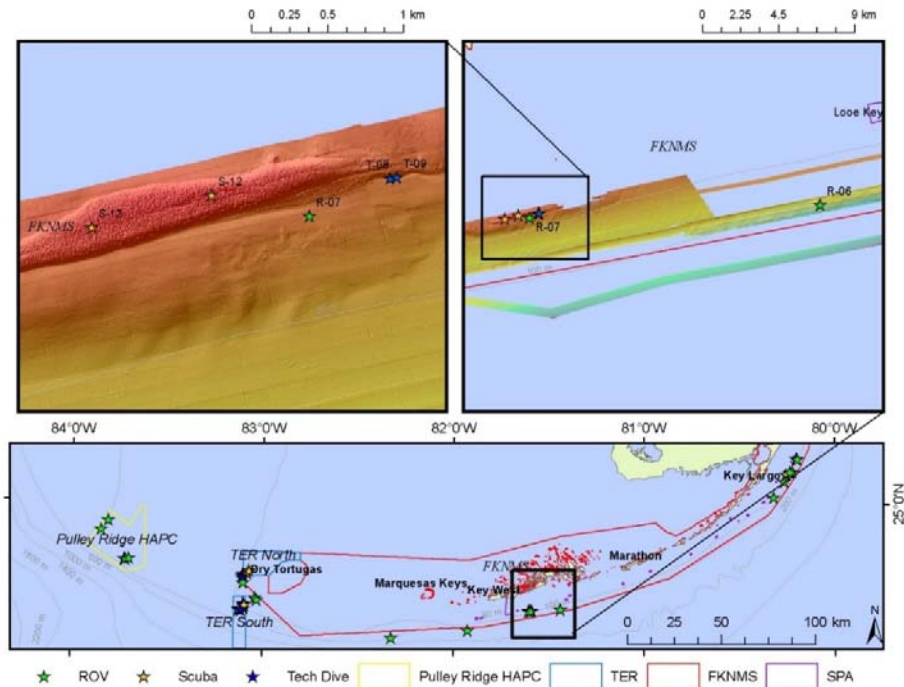


Figure 2. Mesophotic and rariphotic dive sites (30-120 m) off the middle keys in the Florida Keys National Marine Sanctuary (red polygon) made by HBOI-FAU CIOERT with UNCW *Mohawk* ROV, August 12- 29. Dives off Tortugas and Pulley Ridge are not included in this photo guide.

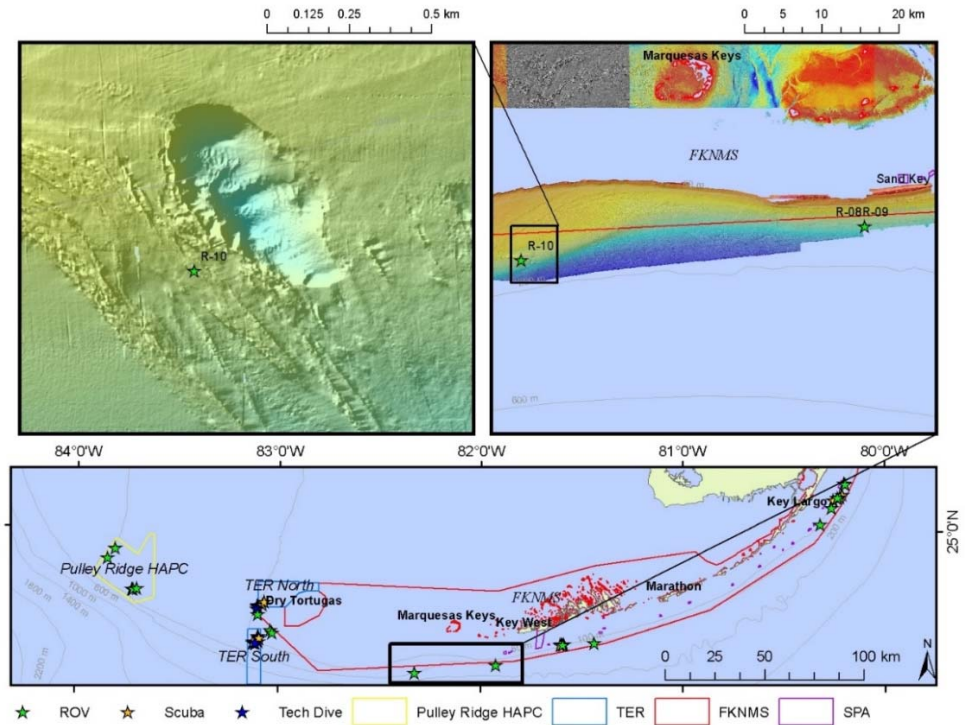


Figure 3. Mesophotic and rariphotic dives sites (30-120 m) off the lower keys in the Florida Keys National Marine Sanctuary (red polygon) made by HBOI-FAU CIOERT with UNCW *Mohawk* ROV, August 12- 29. Dives off Tortugas and Pulley Ridge are not included in this photo guide.

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| Decapoda | 196-197 |
| Diogenidae | 196 |
| <i>Diogenes</i> sp. | 196 |
| Inachoididae | 197 |
| <i>Stenorhynchus seticornis</i> | 197 |
| Echinodermata | 198-199 |
| Ophiuroidea | 198-199 |
| Euryalida | 199 |
| Gorgonocephalidae | 199 |
| <i>Asteroporpa (Asteroporpa) annulata</i> | 199 |
| Ophiacanthida | 198 |
| Ophiidermatidae | 198 |
| <i>Ophioderma devaneyi</i> | 198 |
| Chordata | 200-203 |
| Ascidiacea | 200-203 |
| Stolidobranchia | 200-201 |
| Styelidae | 200-201 |
| <i>Botryllus</i> sp. | 200-201 |
| Aplousobranchia | 202-203 |
| Didemnidae | 202-203 |
| <i>Trididemnum solidum</i> | 202-203 |
| Disease | 204-208 |
| Dead Coral (disease) | 204 |
| Disease- unid. | 205-208 |
| Human debris | 209-220 |
| Anchor line | 209 |
| Fish line/gear | 209-210 |
| Trap | 210-212 |
| Fishing line | 212-213 |
| Trawl net | 213-214 |
| Line from lobster/crab pot | 214-215 |
| Human impact | 216-220 |

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Caulerpa racemosa

(Forsskål) J.Agardh, 1873



201908141005_T-08-56-01_0013.jpg

14-VIII-19-1-005

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Caulerpaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Caulerpa sertularioides

(S.G.Gmelin) M.A.Howe, 1905



201908162001_T-13-10-08_0010.jpg

16-VIII-19-2-001

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Caulerpaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Caulerpa sertularioides

(S.G.Gmelin) M.A.Howe, 1905



201908162001_Deck2.JPG

16-VIII-19-2-001

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Caulerpaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Codium isthmocladum

Vickers, 1905



201908141008_T-09-09-54_0024.jpg

14-VIII-19-1-008

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Codiaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Codium isthmocladum

Vickers, 1905



201908141008_Deck1.JPG

14-VIII-19-1-008

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Codiaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Derbesia marina

(Lyngbye) Solier, 1846



201908161002_T-08-55-28_0048.jpg

16-VIII-19-1-002

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Derbesiaceae

DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key, Deepwater Mound, FKNMS, Station FK-07, ROV 19-06, UNCW 778

Derbesia marina

(Lyngbye) Solier, 1846



201908161002_Deck1.JPG

16-VIII-19-1-002

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Derbesiaceae

DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key, Deepwater Mound, FKNMS, Station FK-07, ROV 19-06, UNCW 778

Halimeda discoidea

Decaisne, 1842



201908141_T-10-07-04_0102b.jpg

IDENTIFIER: M. D. Hanisak (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda discoidea

Decaisne, 1842



201908141_T-11-29-00_0216a.jpg

IDENTIFIER: M. D. Hanisak (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda goreau

W.R.Taylor, 1962



201908131_T-16-10-57_0140b.jpg

IDENTIFIER: M. D. Hanisak (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halimeda goreau

W.R.Taylor, 1962



201908151006_T-09-00-26_0032.jpg

15-VIII-19-1-006

IDENTIFIER: M. D. Hanisak (HBOI) **

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

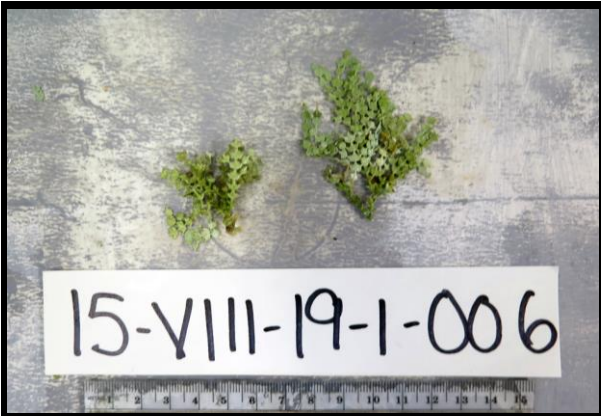
50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Halimeda goreau

W.R.Taylor, 1962



201908151006_Deck2.JPG

15-VIII-19-1-006

IDENTIFIER: M. D. Hanisak (HBOI) **

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

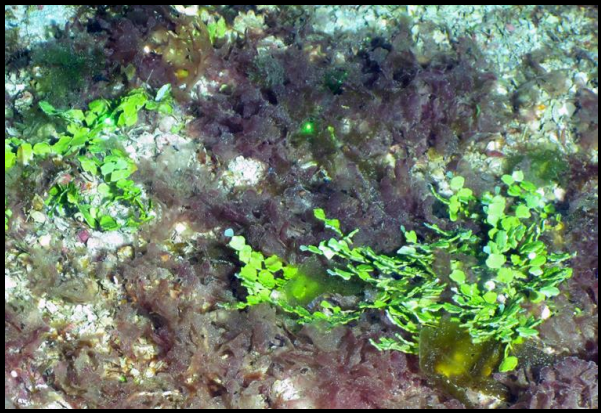
50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Halimeda gracilis

Harvey ex J.Agardh, 1887



201908141002_T-08-37-46_0004.jpg

14-VIII-19-1-002

IDENTIFIER: M. D. Hanisak (HBOI) **

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

51 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda gracilis

Harvey ex J.Agardh, 1887



201908141002_Deck1.JPG

14-VIII-19-1-002

IDENTIFIER: M. D. Hanisak (HBOI) **

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

51 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda sp.



201908131_T-15-48-04_0119c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halimeda sp.



201908141_T-10-03-37_0091b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda tuna

(J.Ellis & Solander) J.V.Lamouroux, 1816



201908141_T-10-09-17_0107a.jpg

IDENTIFIER: M. D. Hanisak (HBOI) *

Bushy chains of disks, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Halimeda tuna

(J.Ellis & Solander) J.V.Lamouroux, 1816



201908182005_Deck1.JPG

18-VIII-19-2-005

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Halimedaceae

DEPTH:

68 m

LOCATION:

Florida, Gulf of Mexico, Pulley Ridge HAPC, Mesophotic Reef, Main Ridge South, Block #18, Station FK-12, ROV 19-12, UNCW 784

Rhypocephalus phoenix

(J.Ellis & Solander) Kützing, 1843



201908141_T-10-06-47_0101b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Stalked bush, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Udoteaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Udotea cyathiformis

Decaisne, 1842



201908141_T-10-06-04_0099a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bowl, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Udoteaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Udotea cyathiformis

Decaisne, 1842



201908141_T-10-05-15_0096b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bowl, green.

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Udoteaceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Udotea sp.



201908162003_T-13-23-53_0016.jpg

16-VIII-19-2-003

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Udoteaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Udotea sp.



201908162003_Deck2.JPG

16-VIII-19-2-003

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Ulvophyceae

ORDER:

Bryopsidales

FAMILY:

Udoteaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Dictyopteris justii

J.V.Lamouroux, 1809



201908152_T-15-18-10_0096.jpg

IDENTIFIER: J. Reed (HBOI) *

brown blade with mid rib.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Dictyopteris justii

J.V.Lamouroux, 1809



201908152_T-14-51-22_0071.jpg

IDENTIFIER: J. Reed (HBOI) *

brown; brown blade with mid rib.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Dictyopteris justii

J.V.Lamouroux, 1809



201908141003_Deck4.JPG

14-VIII-19-1-003

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

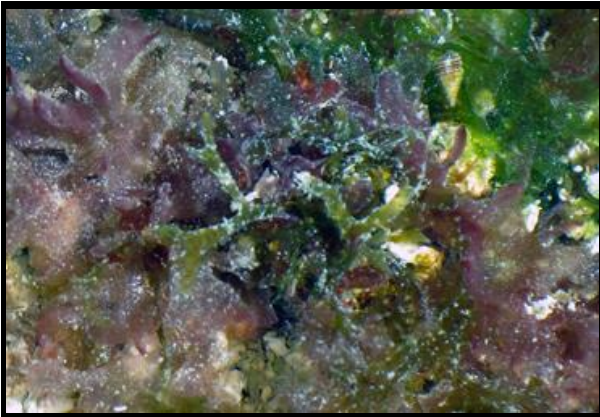
51 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota bartayresiana

J.V.Lamouroux, 1809



201908141021_T-08-47-16_0011.jpg

14-VIII-19-1-021

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

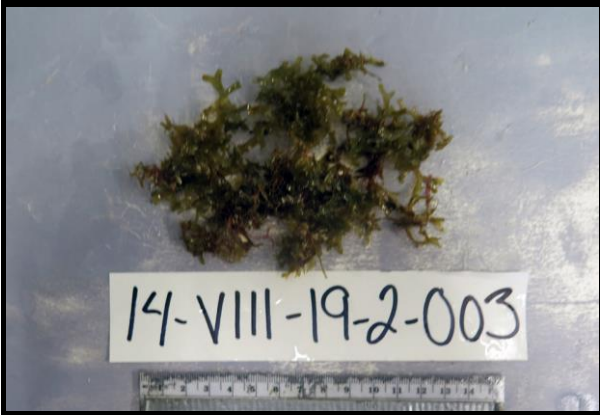
50 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota bartayresiana

J.V.Lamouroux, 1809



201908142003_Deck1.JPG

14-VIII-19-2-003

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Dictyota bartayresiana

J.V.Lamouroux, 1809



201908151005_Deck3.JPG

15-VIII-19-1-005

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Dictyota menstrualis

(Hoyt) Schnetter, Hörning & Weber-Peukert, 1987



201908141012_T-10-16-32_0119.jpg

14-VIII-19-1-012

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

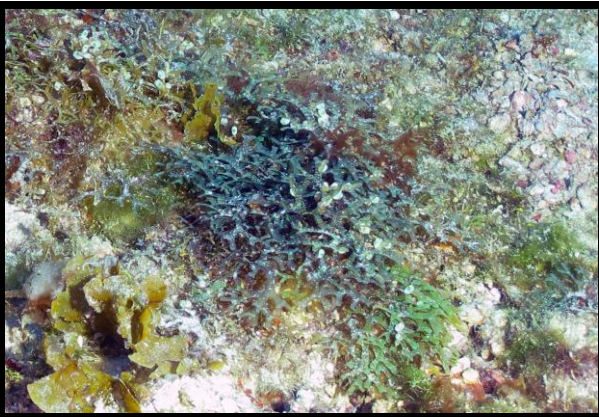
DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota sp.



201908141_T-10-04-25_0094a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, green.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota sp.



201908141_T-10-06-47_0101a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, purple.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

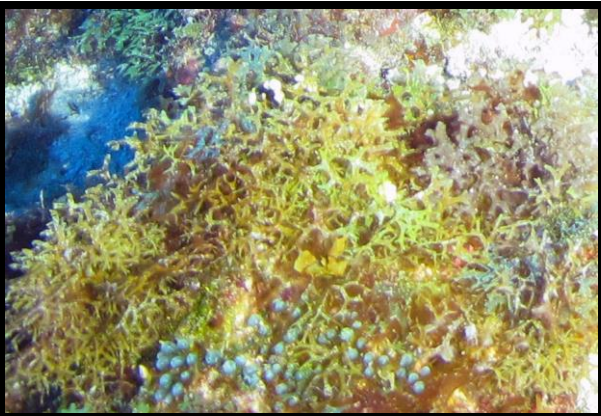
DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota sp.



201908141_T-10-09-46_0108a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, green.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dictyota sp.



201908131018_Deck1.JPG

13-VIII-19-1-018

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Dictyota sp.



201908131021_T-16-45-07_0175.jpg

13-VIII-19-1-021

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

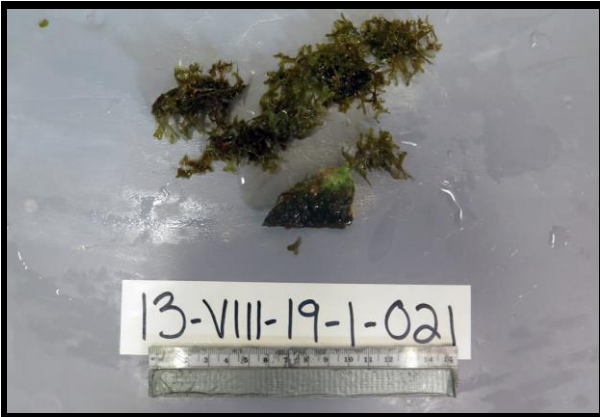
DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Dictyota sp.



201908131021_Deck2.JPG

13-VIII-19-1-021

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Lobophora sp.



201908131_T-17-27-09_0200d.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, green.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Lobophora sp.



201908131020_T-16-45-00_0174.jpg

13-VIII-19-1-020

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Lobophora sp.



201908131020_Deck2.JPG

13-VIII-19-1-020

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Lobophora sp.



201908151011_T-09-56-45_0092.jpg

15-VIII-19-1-011

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Lobophora sp.



201908151011_Deck1.JPG

15-VIII-19-1-011

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Lobophora sp.



201908152003_T-14-12-47_0025.jpg

15-VIII-19-2-003

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Lobophora sp.



201908152003_Deck2.JPG

15-VIII-19-2-003

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Spatoglossum schroederi

(C.Agardh) Kützing, 1859



201908141_T-10-07-04_0102a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy chains of disks, brown.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Spatoglossum schroederi

(C.Agardh) Kützing, 1859



201908141_T-10-09-17_0107b.jpg

IDENTIFIER: J. Reed (HBOI) *

Bushy chains of disks, brown.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Spatoglossum schroederi

(C.Agardh) Kützing, 1859



201908141_T-11-27-56_0214a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy chains of disks, brown.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Spatoglossum schroederi

(C.Agardh) Kützing, 1859



201908141_T-10-06-04_0099b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy chains of disks, brown.

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Styopodium zonale

(J.V.Lamouroux) Papenfuss, 1940



201908152004_T-14-29-36_0049.jpg

15-VIII-19-2-004

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Styopodium zonale

(J.V.Lamouroux) Papenfuss, 1940



201908152004_Deck2.JPG

15-VIII-19-2-004

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Dictyotales

FAMILY:

Dictyotaceae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Sargassum hystrix var. *buxifolium*

(Chauvin) M.J.Wynne, 2011



201908152006_T-15-21-48_0101.jpg

15-VIII-19-2-006

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Fucales

FAMILY:

Sargassaceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Sargassum hystrix var. *buxifolium*

(Chauvin) M.J.Wynne, 2011



201908152006_Deck2.JPG

15-VIII-19-2-006

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Phaeophyceae

ORDER:

Fucales

FAMILY:

Sargassaceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Halymenia pseudofloresia

Collins & M.Howe, 1916



201908131001_T-13-21-35_0008.jpg

13-VIII-19-1-001

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia pseudofloresia

Collins & M.Howe, 1916



201908131001_Deck5.JPG

13-VIII-19-1-001

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

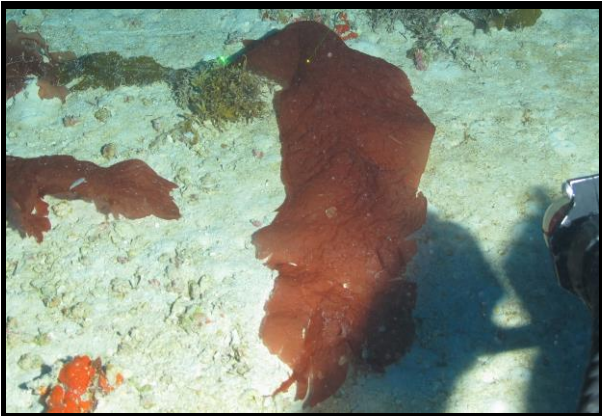
DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia sp.



201908131002_T-13-27-12_0010.jpg

13-VIII-19-1-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia sp.



201908131002_Deck1.JPG

13-VIII-19-1-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

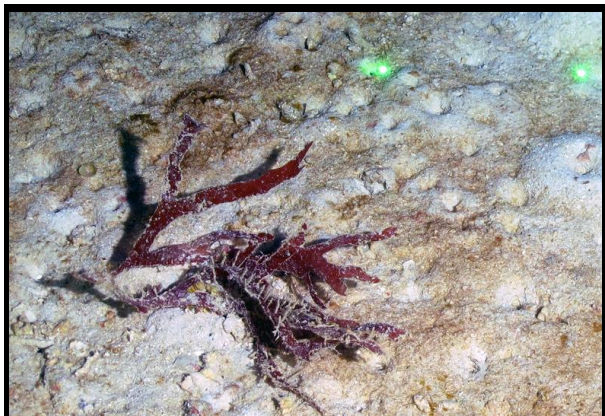
DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia sp.



201908131005_T-13-43-29_0017.jpg

13-VIII-19-1-005

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

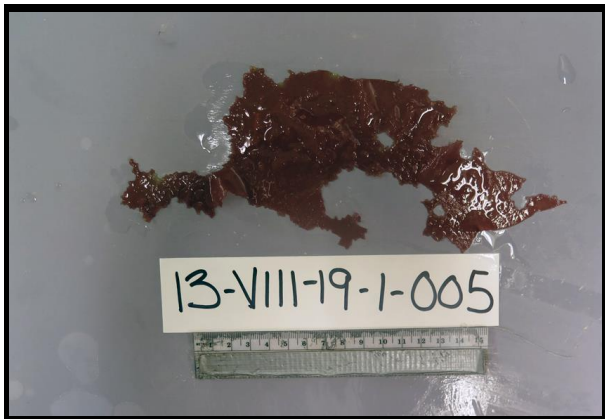
DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia sp.



201908131005_Deck1.JPG

13-VIII-19-1-005

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Halymenia sp.



201908131010_T-14-03-32_0025.jpg

13-VIII-19-1-010

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

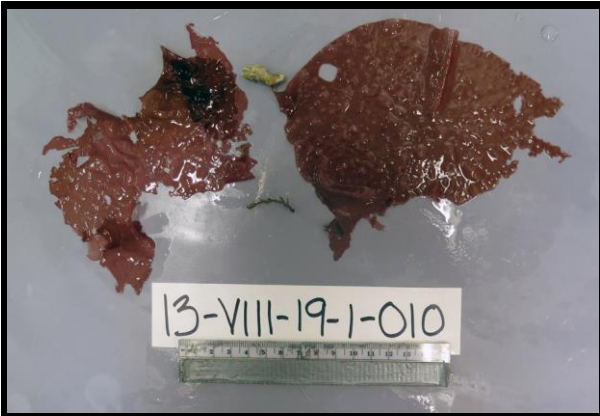
DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Halymenia sp.



201908131010_Deck1.JPG

13-VIII-19-1-010

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Halymeniales

FAMILY:

Halymeniaceae

DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Corallinophycidae



201908151001_T-08-13-35_0003.jpg

15-VIII-19-1-001

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Florideophyceae

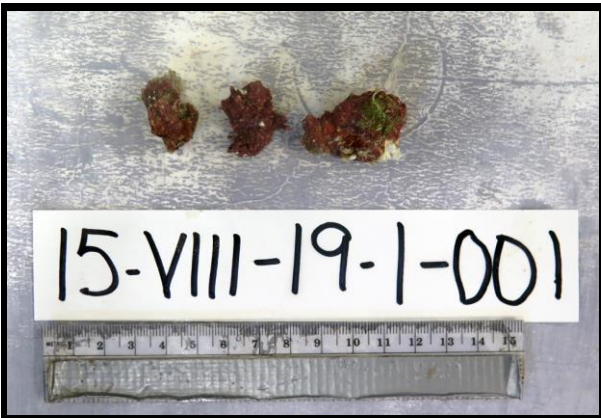
DEPTH:

53 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Corallinophycidae



201908151001_Deck1.JPG

15-VIII-19-1-001

IDENTIFIER: Katherine Beckett (HBOI) **

CLASS:

Florideophyceae

DEPTH:

53 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Haloplegma duperreyi

Montagne, 1842



201908141001_Deck1.JPG

14-VIII-19-1-001

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Ceramiales

FAMILY:

Wrangeliaceae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Amphiroa rigida

J.V.Lamouroux, 1816



201908152002_T-13-52-27_0012.jpg

15-VIII-19-2-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Corallinales

FAMILY:

Corallinaceae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Amphiroa rigida

J.V.Lamouroux, 1816



201908152002_Deck3.JPG

15-VIII-19-2-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Corallinales

FAMILY:

Corallinaceae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Gracilaria mammillaris

(Montagne) M.A.Howe, 1918



201908131004_Deck1.JPG

13-VIII-19-1-004

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gracilariales

FAMILY:

Gracilariaceae

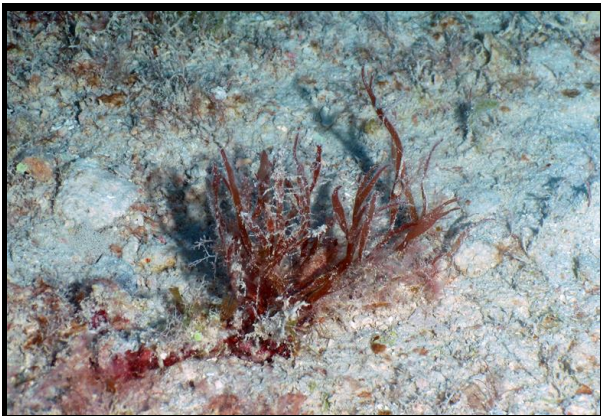
DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

***Gracilaria* sp.**



201908162002_T-13-18-36_0012.jpg

16-VIII-19-2-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gracilariales

FAMILY:

Gracilariaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Gracilaria sp.



201908162002_Deck1.JPG

16-VIII-19-2-002

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gracilariales

FAMILY:

Gracilariaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Gracilaria sp.



201908162004_Deck2.JPG

16-VIII-19-2-004

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gracilariales

FAMILY:

Gracilariaceae

DEPTH:

37 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Galaxaura sp.



201908141_T-10-10-26_0110a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, pink.

CLASS:

Florideophyceae

ORDER:

Nemaliales

FAMILY:

Galaxauraceae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Galaxaura sp.



201908141_T-10-04-09_0093c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bush, pink.

CLASS:

Florideophyceae

ORDER:

Nemaliales

FAMILY:

Galaxauraceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Titanophora incrustans

(J.Agardh) Børgesen, 1949



201908141006_T-08-57-33_0016.jpg

14-VIII-19-1-006

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Nemastomatales

FAMILY:

Schizymeniaceae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Titanophora incrustans

(J.Agardh) Børgesen, 1949



201908152008_T-16-46-50_0166.jpg

15-VIII-19-2-008

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Nemastomatales

FAMILY:

Schizymeniaceae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Titanophora incrustans

(J.Agardh) Børgesen, 1949



201908152008_Deck2.JPG

15-VIII-19-2-008

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Nemastomatales

FAMILY:

Schizymeniaceae

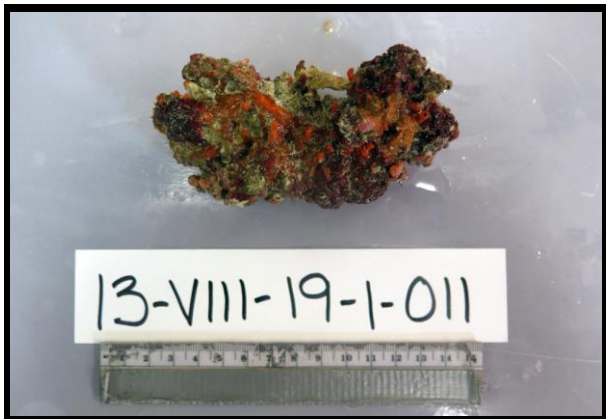
DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Peyssonnelia sp.



201908131011_Deck2.JPG

13-VIII-19-1-011

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Peyssonneliales

FAMILY:

Peyssonneliaceae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Austrokallymenia westii

(Ganesan) C.W.Schneider & G.W.Saunders, 2019



201908131006_T-13-47-12_0018.jpg

13-VIII-19-1-006

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gigartinales

FAMILY:

Kallymeniaceae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Austrokallymenia westii

(Ganesan) C.W.Schneider & G.W.Saunders, 2019



201908131006_Deck1.JPG

13-VIII-19-1-006

IDENTIFIER: M. D. Hanisak (HBOI) **

CLASS:

Florideophyceae

ORDER:

Gigartinales

FAMILY:

Kallymeniaceae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cyanobacteria



201908131_T-16-19-33_0152.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cyanobacteria



201908131_T-16-18-17_0149.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cyanobacteria



201908141_T-10-56-08_0157.jpg

IDENTIFIER: J. Reed (HBOI) *

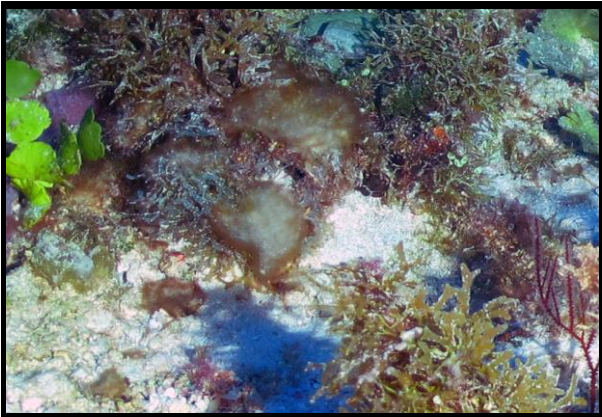
DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Cyanobacteria



201908141_T-10-05-44_0098.jpg

IDENTIFIER: J. Reed (HBOI) *

brown/gray.

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Cyanobacteria



201908151_T-11-05-39_0162.jpg

IDENTIFIER: J. Reed (HBOI) *

large mass.

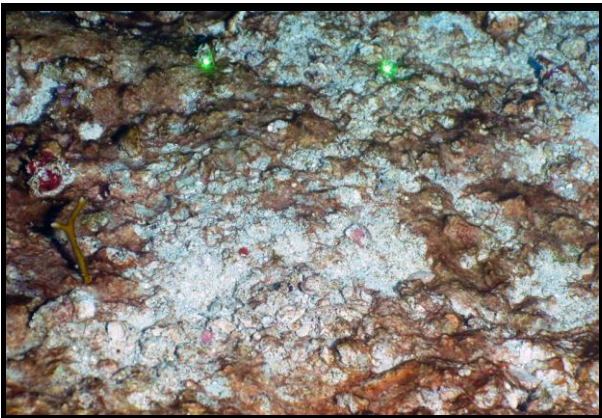
DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Cyanobacteria



201908142006_T-16-45-32_0291.jpg

14-VIII-19-2-006

IDENTIFIER: J. Reed (HBOI) **

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agelas citrina

Gotera & Alcolado, 1987



201908141_T-10-08-50_0106a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Flabellate, corrugated, partially overgrown; orange; oscules: round.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Agelas citrina

Gotera & Alcolado, 1987



201908141_T-10-10-26_0110.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Flabellate, corrugated, partially overgrown; orange; oscules: round.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Agelas citrina

Gotera & Alcolado, 1987



201908152_T-16-20-50_0157.jpg

IDENTIFIER: J. Reed (HBOI) *

Flabellate, orange; oscules: round.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

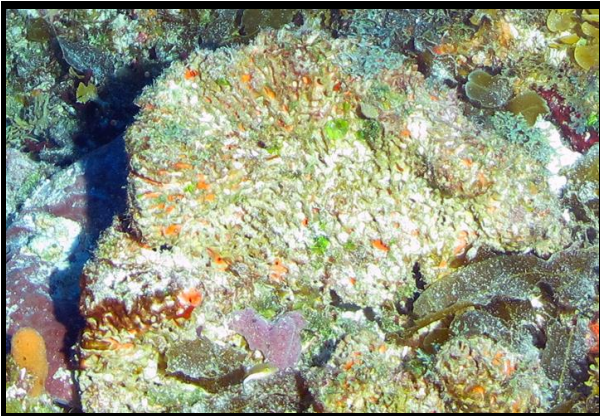
43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Agelas citrina

Gotera & Alcolado, 1987



201908152_T-15-51-45_0128.jpg

IDENTIFIER: J. Reed (HBOI) *

Flabellate, overgrown, gray/black; oscules: round, diseased.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Agelas conifera

(Schmidt, 1870)



201908152_T-15-30-18_0113.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive/lobate, with cone-shaped lobes, light to dark brown; oscules: present, on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Agelas conifera

(Schmidt, 1870)



201908131_T-16-20-26_0154a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/lobate, with cone-shaped lobes, orange; oscules: on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agelas conifera

(Schmidt, 1870)



201908131_T-17-32-30_0212b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/lobate, with cone-shaped lobes, light to dark brown; oscules: on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agelas dispar

Duchassaing & Michelotti, 1864



201908151_T-09-24-10_0070a.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive, smooth to rugose, dark brown; oscules: round, in dips.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Agelas schmidtii

Wilson, 1902



201908141017_Deck2.JPG

14-VIII-19-1-017

IDENTIFIER: M.C. Diaz (HBOI) **

Hollow tube/s, orange; oscules: sparse, along tube(s).

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Agelas sp.



201908142_T-16-26-59_0263a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Fan, ribbed, orange.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agelas sventres

Lehnert & van Soest, 1996



201908151_T-10-28-27_0126a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive, subspherical, smooth, orange; oscules: round/keyholed.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Agelas tubulata

Lehnert & van Soest, 1996



201908142_T-14-57-21_0153a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Hollow tube/s, brown; oscules: apical.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

31 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agelas tubulata

Lehnert & van Soest, 1996



201908142_T-16-37-22_0282a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Cluster hollow tubes, smooth, folded; brown.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agelas tubulata

Lehnert & van Soest, 1996



201908142_T-16-28-33_0266a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Cluster hollow tubes, smooth, brown; orange/brown internally.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agelas tubulata

Lehnert & van Soest, 1996



201908131_T-16-13-40_0142a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster of fat- hollow tubes, brown/orange.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agelas wiedenmayeri

Alcolado, 1984



201908141_T-11-33-25_0231a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, smooth, riddled by apertures; brown/orange; oscules: round/keyholed, oscules on top of tube(s).

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Agelasidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

***Stromatospongia* sp.**



201908142_T-14-47-30_0119.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/amorphous, irregular, tan; oscules: not visible, hard.

CLASS:

Demospongiae

ORDER:

Agelasida

FAMILY:

Astroscleridae

DEPTH:

31 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Axinellida FK-01



201908131_T-16-14-11_0143b.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Erect Massive, corrugated, red/orange.

CLASS:

Demospongiae

ORDER:

Axinellida

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Axinellida FK-02



201908203009_T-16-54-36_0027.jpg

20-VIII-19-3-009

IDENTIFIER: M.C. Diaz (HBOI) **

Stalked bush, red.

CLASS:

Demospongiae

ORDER:

Axinellida

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Axinellida FK-02



201908203009_Deck3.JPG

20-VIII-19-3-009

IDENTIFIER: M.C. Diaz (HBOI) **

Stalked bush, digitate projections, red; oscules: not visible.

CLASS:

Demospongiae

ORDER:

Axinellida

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Axinella corrugata

(George & Wilson, 1919)



201908131_T-17-34-15_0217a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Erect Massive, irregular, corrugated; orange/brown; oscules: not visible.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Axinellidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Dragmacidon alvarezae

Zea & Pulido, 2016



201908141_T-10-04-09_0093a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Finger(s), porous, orange.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Axinellidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Dragmacidon sp.



201908131_T-16-10-35_0139.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Flabellate to thick encrusting, porous, yellow/orange; oscules: round/abundant.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Axinellidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Ptilocaulis walpersii

(Duchassaing & Michelotti, 1864)



201908141_T-10-04-09_0093ab.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Finger(s), spatulate, yellow.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Axinellidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Ptilocaulis walpersii

(Duchassaing & Michelotti, 1864)



201908141_T-11-30-31_0221a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Erect branching, spatulate, yellow.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Axinellidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Myrmekioderma rea

(Laubenfels, 1934)



201908131_T-17-40-31_0227b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/thick encrusting, red/orange; oscules: sparse, round, oscular membranes: orange.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Heteroxyidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Higginsia coralloides

Higgin, 1877



201908131_T-17-27-20_0201b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Flabellate, stalked, rugose/ridged, encrusted; red/orange.

CLASS:

Demospongiae

ORDER:

Axinellida

FAMILY:

Stelligeridae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Acanthella cubensis

(Alcolado, 1984)



201908141_T-11-29-00_0216.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/lobate, rugose, orange; oscules: sparse, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Bubarida

FAMILY:

Dictyonellidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Acanthella cubensis

(Alcolado, 1984)



201908151014_T-10-34-44_0112.jpg

15-VIII-19-1-014

IDENTIFIER: M.C. Diaz (HBOI) **

Massive, lobate, rugose, orange; oscules: sparse, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Bubarida

FAMILY:

Dictyonellidae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Acanthella cubensis

(Alcolado, 1984)



201908151015_T-10-37-14_0134.jpg

15-VIII-19-1-015

IDENTIFIER: M.C. Diaz (HBOI) **

Lobate, hispid, rugose; orange; oscules: sparse, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Bubarida

FAMILY:

Dictyonellidae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Acanthella cubensis

(Alcolado, 1984)



201908151015_Deck2.JPG

15-VIII-19-1-015

IDENTIFIER: M.C. Diaz (HBOI) **

Amorphous, orange.

CLASS:

Demospongiae

ORDER:

Bubarida

FAMILY:

Dictyonellidae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Chondrilla caribensis

Rützler, Duran & Piantoni, 2007



201908131_T-17-42-49_0233a.jpg

IDENTIFIER: M.C. Diaz & J. Reed (HBOI) *

Thick encrusting, smooth, brown; oscules: abundant, round, 1-3 mm wide, oscular membranes: lighter.

CLASS:

Demospongiae

ORDER:

Chondrillida

FAMILY:

Chondrillidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Chondrilla caribensis

Rützler, Duran & Piantoni, 2007



201908131_T-15-21-11_0089a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Thick encrusting, lobate, smooth, brown; oscules: round.

CLASS:

Demospongiae

ORDER:

Chondrillida

FAMILY:

Chondrillidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cliona caribbaea

Carter, 1882



201908131_T-15-26-47_0094a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Thick encrusting, bioeroding, brown; oscules: present, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cliona delitrix

Pang, 1973



201908142_T-16-36-37_0279.jpg

IDENTIFIER: J. Reed (HBOI) *

Boring, papillate, with zoanths; orange; oscules: round, oscular membranes: collar.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Cliona varians

(Duchassaing & Michelotti, 1864)



201908131_T-16-20-01_0153c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thick encrusting, bioeroding, brown; oscules: round, with membrane, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

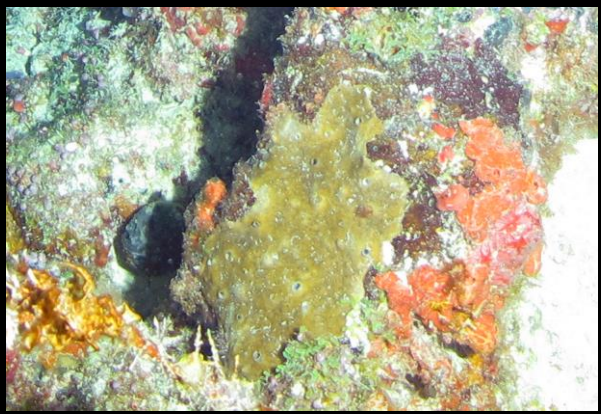
43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cliona varians

(Duchassaing & Michelotti, 1864)



201908131_T-17-30-15_0208a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thick encrusting, bioeroding, smooth, green; oscules: abundant, elevated, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Cliona varians

(Duchassaing & Michelotti, 1864)



201908131_T-16-00-01_0130c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thick encrusting, bioeroding, brown; oscules: round, with membrane, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Spheciospongia vesparium

(Lamarck, 1815)



201908141_T-10-04-46_0095a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Massive/roundish, rugose, encrusted; black; oscules: apical, clumped, oscular membranes: present; with smaller oscules dispersed along the sides with no membrane.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Clionaidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Spirastrellidae



201908173_T-17-11-07_0048a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thin encrusting, bright orange; There are many thinly encrusting red sponges that look similar but are taxonomically different.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas, Deepwater Warsaw Sinkhole, Outside FKNMS, Station FK-10, ROV 19-10, UNCW 782

Spirastrellidae



201908131_T-15-29-21_0099a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Amorphous, bright orange; There are many thinly encrusting red sponges that look similar but are taxonomically different.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

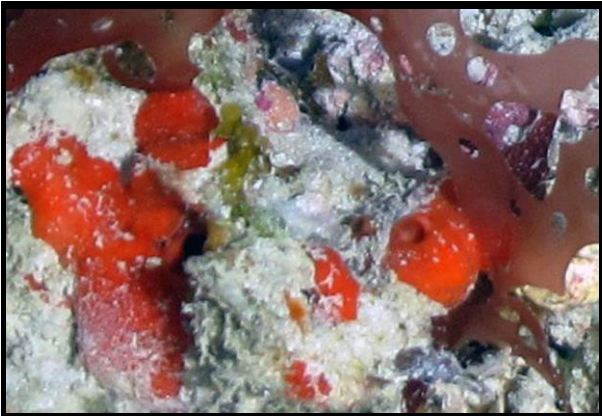
DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Spirastrellidae



201908131008_T-13-48-08_0020.jpg

13-VIII-19-1-008

IDENTIFIER: *S. Pomponi* (HBOI) **

Thin encrusting, orange; There are many thinly encrusting red sponges that look similar but are taxonomically different.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Spirastrellidae



201908131008_Deck1.JPG

13-VIII-19-1-008

IDENTIFIER: *S. Pomponi* (HBOI) **

Thin encrusting, orange; oscules: not visible, There are many thinly encrusting red sponges that look similar but are taxonomically different.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Spirastrella coccinea

(Duchassaing & Michelotti, 1864)



201908131003_T-13-32-57_0014.jpg

13-VIII-19-1-003

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, orange.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Spirastrella coccinea

(Duchassaing & Michelotti, 1864)



201908131003_Deck2.JPG

13-VIII-19-1-003

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, orange.

CLASS:

Demospongiae

ORDER:

Clionaida

FAMILY:

Spirastrellidae

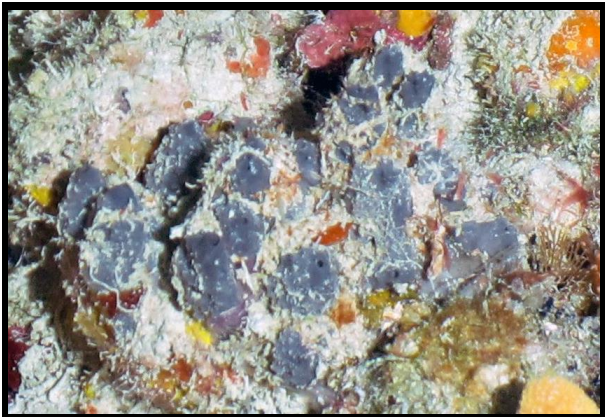
DEPTH:

58 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Dictyoceratida



201908142_T-16-16-14_0242b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Cluster of lobes, black/gray/blue; oscules: on top of lobe(s), irregularly conulose.

CLASS:

Demospongiae

ORDER:

Dictyoceratida

DEPTH:

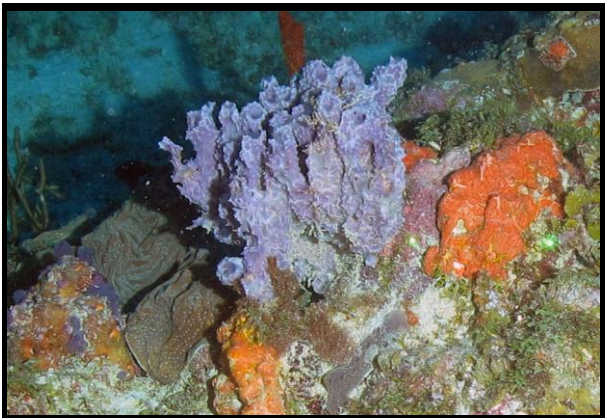
33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Dysidea lehnerti

Van Soest & Hooper, 2020



201908131_T-17-39-53_0225a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, strongly conulose, violet; oscules: on top of tube(s), along tube(s), oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Dictyoceratida

FAMILY:

Dysideidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Smenospongia conulosa

Pulitzer-Finali, 1986



201908162006_T-14-06-23_0049.jpg

16-VIII-19-2-006

IDENTIFIER: M.C. Diaz (HBOI) **

Massive, conulose, covered with sediment; brown/yellow; oscules: present, oscular membranes: brown.

CLASS:

Demospongiae

ORDER:

Dictyoceratida

FAMILY:

Thorectidae

DEPTH:

34 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Smenospongia echina

(Laubenfels, 1934)



201908162_T-14-34-25_0079.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive/lobate, conulose, green/yellow; oscules: present, on top of lobe(s), oscular membranes: green.

CLASS:

Demospongiae

ORDER:

Dictyoceratida

FAMILY:

Thorectidae

DEPTH:

32 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Callyspongia (Cladochalina) aculeata

(Linnaeus, 1759)



201908131_T-17-33-07_0214a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, conulose, orange/tan; oscules: abundant, round.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Callyspongia (Cladochalina) aculeata

(Linnaeus, 1759)



201908142_T-16-32-48_0272a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, strongly conulose, yellow/tan; oscules: abundant, round.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Callyspongia (Cladochalina) aculeata

(Linnaeus, 1759)



201908131_T-17-31-19_0209a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Cluster of hollow tubes, smooth to rugose, gray; oscules: not visible.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Callyspongia (Callyspongia) fallax

Duchassaing & Michelotti, 1864



201908131_T-16-10-35_0139a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster of hollow tubes, smooth, violet; oscules: abundant, on inner wall.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Callyspongia (Callyspongia) fallax

Duchassaing & Michelotti, 1864



201908131_T-16-11-11_0141a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, smooth, violet; oscules: abundant, on inner wall.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Callyspongia (Callyspongia) fallax

Duchassaing & Michelotti, 1864



201908152_T-16-01-03_0142.jpg

IDENTIFIER: J. Reed (HBOI) *

Tube(s), violet; oscules: abundant, on inner wall, lavender tube.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Callyspongia (Cladochalina) plicifera

(Lamarck, 1814)



201908202_T-13-44-48_0048.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Cluster hollow tubes, ridged, violet.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Callyspongiidae

DEPTH:

25 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Goliath Grouper Hole, Outside FKNMS, Block #66, Site FK-17, ROV 19-17, UNCW 789

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908131_T-16-20-01_0153a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Erect rods/branching, smooth, orange/brown; oscules: abundant, along branches, soft.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908141_T-10-10-26_0110b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Branching lobes, lobate, smooth, red/orange; oscules: abundant, round.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908131009_T-13-52-52_0023.jpg

13-VIII-19-1-009

IDENTIFIER: S. Pomponi (HBOI) **

Massive, smooth, red wine; oscules: abundant, round.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

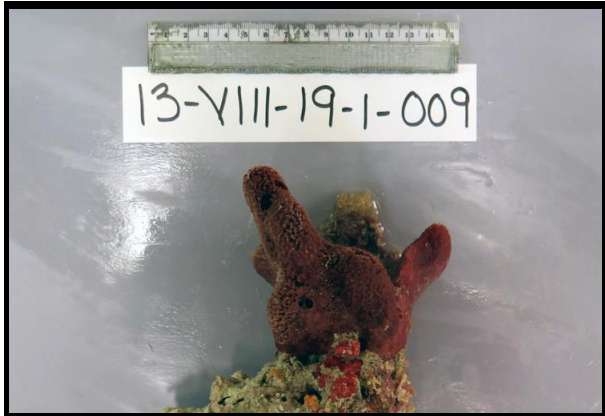
59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908131009_Deck1.JPG

13-VIII-19-1-009

IDENTIFIER: S. Pomponi (HBOI) **

Erect branch, smooth, red; oscules: sparse, round.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

59 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908203001_T-15-12-28_0007.jpg

20-VIII-19-3-001

IDENTIFIER: S. Pomponi (HBOI) **

Erect branch/repent, smooth, red/orange; oscules: abundant, along branches.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

26 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908203004_T-15-27-56_0019.jpg

20-VIII-19-3-004

IDENTIFIER: S. Pomponi (HBOI) **

Erect branch, smooth, red/pink; oscules: abundant, along branches.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Amphimedon compressa

Duchassaing & Michelotti, 1864



201908203004_Deck2.JPG

20-VIII-19-3-004

IDENTIFIER: S. Pomponi (HBOI) **

Erect branch, pink.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

***Amphimedon* sp. Cu-05**



201908131_T-17-39-46_0224a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Creeping/branching, porous, yellow; oscules: present, 2-3 mm wide.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

***Amphimedon* sp. FK-01**



201908141010_T-09-42-25_0062.jpg

14-VIII-19-1-010

IDENTIFIER: M.C. Diaz (HBOI) **

Creeping/branching, irregular thick branches, smooth, red wine; oscules: abundant, along branches, soft.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

***Amphimedon* sp. FK-01**



201908141010_Deck1.JPG

14-VIII-19-1-010

IDENTIFIER: M.C. Diaz (HBOI) **

Creeping/branching, red wine.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

***Amphimedon* sp. FK-01**



201908151008_Deck1.JPG

15-VIII-19-1-008

IDENTIFIER: M.C. Diaz (HBOI) **

Creeping/branching, red wine.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

***Amphimedon* sp. FK-02**



201908151008_T-09-35-38_0067.jpg

15-VIII-19-1-008

IDENTIFIER: M.C. Diaz (HBOI) **

Creeping/branching, split and anastomose, smooth, red wine; oscules: abundant, along branches, had hastate to fusiform oxea, whereas FK-01 had styloids to stronglyloxea.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Cribrochalina vasculum

(Lamarck, 1814)



201908162008_T-15-58-41_0213.jpg

16-VIII-19-2-008

IDENTIFIER: M.C. Diaz (HBOI) **

Plate, velvet, red/orange; oscules: small, on upper side.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

27 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Cribrochalina vasculum

(Lamarck, 1814)



201908162008_Deck3.JPG

16-VIII-19-2-008

IDENTIFIER: M.C. Diaz (HBOI) **

Plate, red wine; oscules: abundant, on one side, oscular membranes: absent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

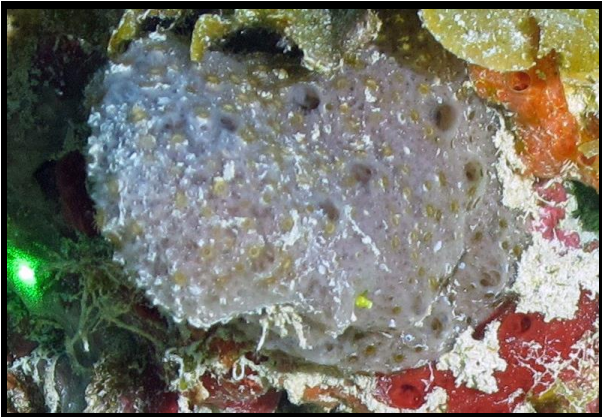
27 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Niphates alba

van Soest, 1980



201908131_T-15-21-11_0089b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Stump, conulose, hispid; purple; oscules: round/abundant, along tube(s), soft.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Niphates digitalis

(Lamarck, 1814)



201908142_T-16-14-33_0238a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Vase, smooth, with spiny rim; gray/purple; oscules: abundant, on inner cavity.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Niphates digitalis

(Lamarck, 1814)



201908151_T-10-24-23_0119.jpg

IDENTIFIER: J. Reed (HBOI) *

Cluster of cone shaped tubes, conulose, with spiny rim; red/pink; oscules: abundant, on inner cavity, nice pic for book.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

47 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Niphates digitalis

(Lamarck, 1814)



201908201001_T-08-29-05_0014.jpg

20-VIII-19-1-001

IDENTIFIER: S. Pomponi (HBOI) *

Vase, conulose, gray; oscules: abundant, on inner cavity.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

32 m

LOCATION:

Florida, Tortugas Bank, Deepwater Reef, West Flank of Bank, Outside of TER North, Block #46, Station FK-16, ROV 19-16, UNCW 788

Niphates digitalis

(Lamarck, 1814)



201908201003_T-09-16-49_0063.jpg

20-VIII-19-1-003

IDENTIFIER: S. Pomponi (HBOI) *

Vase, conulose, gray; oscules: round/abundant, on inner wall.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

33 m

LOCATION:

Florida, Tortugas Bank, Deepwater Reef, West Flank of Bank, Outside of TER North, Block #46, Station FK-16, ROV 19-16, UNCW 788

Niphates digitalis

(Lamarck, 1814)



201908201004_T-09-33-02_0083.jpg

20-VIII-19-1-004

IDENTIFIER: S. Pomponi (HBOI) *

Vase, conulose, with few spiny projections (2–4 mm wide, 2–4 cm long); gray; oscules: abundant, on inner cavity, oscular membranes: absent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

33 m

LOCATION:

Florida, Tortugas Bank, Deepwater Reef, West Flank of Bank, Outside of TER North, Block #46, Station FK-16, ROV 19-16, UNCW 788

Niphates erecta

Duchassaing & Michelotti, 1864



201908202_T-13-44-48_0048a.jpg

IDENTIFIER: J. Reed (HBOI) *

Finger(s), purple; oscules: abundant, along branches.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

25 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Goliath Grouper Hole, Outside FKNMS, Block #66, Site FK-17, ROV 19-17, UNCW 789

Niphates erecta

Duchassaing & Michelotti, 1864



201908142_T-16-37-05_0281.jpg

IDENTIFIER: J. Reed (HBOI) *

Branching/rope, hispid; lavender; oscules: abundant, along branches.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Niphates erecta

Duchassaing & Michelotti, 1864



201908202001_T-13-45-19_0050.jpg

20-VIII-19-2-001

IDENTIFIER: S. Pomponi (HBOI) **

Branching/rope, hispid; pink/purple; oscules: abundant, along branches.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

25 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Goliath Grouper Hole, Outside FKNMS, Block #66, Site FK-17, ROV 19-17, UNCW 789

Niphates erecta

Duchassaing & Michelotti, 1864



201908202001_Deck3.JPG

20-VIII-19-2-001

IDENTIFIER: S. Pomponi (HBOI) **

Branching/rope, hispid; pink/purple; oscules: abundant, along branches, Lavendar finger sponge.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Niphatidae

DEPTH:

25 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Goliath Grouper Hole, Outside FKNMS, Block #66, Site FK-17, ROV 19-17, UNCW 789

Neopetrosia ovata

Van Soest, Meesters & Becking, 2014



201908131_T-17-30-15_0208.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Petrosia (Petrosia) weinbergi

van Soest, 1980



201908152_T-15-17-06_0095.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive/thick encrusting, with oscule mound(s), smooth, gray; oscules: abundant, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Petrosia (Petrosia) weinbergi

van Soest, 1980



201908151_T-09-24-10_0070.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/amorphous, with oscule mound(s), smooth, gray; oscules: abundant, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Xestospongia muta

(Schmidt, 1870)



201908131_T-17-40-31_0227a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Barrel, rugose, red/purple; oscules: apical vent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Xestospongia muta

(Schmidt, 1870)



201908151_T-09-27-01_0073.jpg

IDENTIFIER: J. Reed (HBOI) *

Volcano, digitate projections, purple; oscules: apical vent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Xestospongia muta

(Schmidt, 1870)



201908203_T-15-36-48_0036b.jpg

IDENTIFIER: J. Reed (HBOI) *

Volcano, smooth, red/brown; oscules: apical vent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Xestospongia muta

(Schmidt, 1870)



201908131012_T-14-29-44_0047.jpg

13-VIII-19-1-012

IDENTIFIER: S. Pomponi (HBOI) *

Volcano, rugose, red/brown; oscules: apical vent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

51 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Xestospongia muta

(Schmidt, 1870)



201908131013_T-14-47-44_0059.jpg

13-VIII-19-1-013

IDENTIFIER: S. Pomponi (HBOI) **

Volcano, rugose, irregular; red/brown; oscules: apical vent.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Xestospongia muta

(Schmidt, 1870)



201908142002_T-15-38-30_0211.jpg

14-VIII-19-2-002

IDENTIFIER: S. Pomponi (HBOI) **

Volcano, rugose, red wine; oscules: apical vent, oscular membranes: collar; with 2 side turbine vents.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Xestospongia cf. muta

(Schmidt, 1870)



201908151_T-10-26-10_0122.jpg

IDENTIFIER: J. Reed (HBOI) *

Barrel, rugose, encrusted; pink; oscules: apical atrium, overgrown.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

47 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Xestospongia cf. muta

(Schmidt, 1870)



201908151016_T-11-14-12_0182.jpg

15-VIII-19-1-016

IDENTIFIER: M.C. Diaz (HBOI) **

Barrel, irregularly rugose, with zoanthids; red/brown; oscules: apical vent, This sponge might have suffered a cut of its upper part, and the thick rounded rim might be a consequence of how the sponge healed.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Petrosiidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Oceanapia bartschi

(Laubenfels, 1934)



201908131_T-16-19-33_0152a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Subspherical, fistulose, black; oscules: apical, on inner cavity.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Phloeodictyidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Oceanapia bartschi

(Laubenfels, 1934)



201908131_T-16-18-17_0149b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Subspherical, fistulose, rugose; black/brown/gray; oscules: apical, on inner cavity.

CLASS:

Demospongiae

ORDER:

Haplosclerida

FAMILY:

Phloeodictyidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Batzella rubra

(Alcolado, 1984)



201908131_T-15-55-12_0122d.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Thick encrusting, slightly rugose, bright red; oscules: sparse, round, with lighter dripping canals surrounding the oscules.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Chondropsidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Batzella rubra

(Alcolado, 1984)



201908131_T-16-14-49_0144a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/thick encrusting, slightly rugose, bright orange; oscules: sparse, round, with lighter dripping canals surrounding the oscules.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Chondropsidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Batzella rubra

(Alcolado, 1984)



201908131_T-15-29-21_0099b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/thick encrusting, slightly rugose, bright orange; oscules: sparse, round, with lighter dripping canals surrounding the oscules.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Chondropsidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Monanchora arbuscula

(Duchassaing & Michelotti, 1864)



201908151_T-11-00-36_0149.jpg

IDENTIFIER: J. Reed (HBOI) *

Thin encrusting, dermal canals, translucent dermal skin; red with white patches; oscules: abundant, round, oscular membranes: translucent; profusely branching dermal canals. Specimens may be massive, thick crusts, or arborescent.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Crambeidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Monanchora arbuscula

(Duchassaing & Michelotti, 1864)



201908142_T-14-58-50_0154a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Branching, bushy, dermal canals, translucent veil; red with white patches; oscules: sparse.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Crambeidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Desmapsamma anchorata

(Carter, 1882)



201908203_T-16-15-06_0069.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive/lobate, ramose, leathery, pink/white; oscules: abundant, top and side of branches, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Desmaciidae

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Desmapsamma anchorata

(Carter, 1882)



201908131_T-16-13-40_0142.jpg

IDENTIFIER: M.C. Diaz (HBOI)

Massive/lobate, ramose, leathery, pink/white; oscules: abundant, top and side of branches, oscular membranes: translucent; cyanobacteria on *Montastraea*.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Desmacididae

DEPTH:

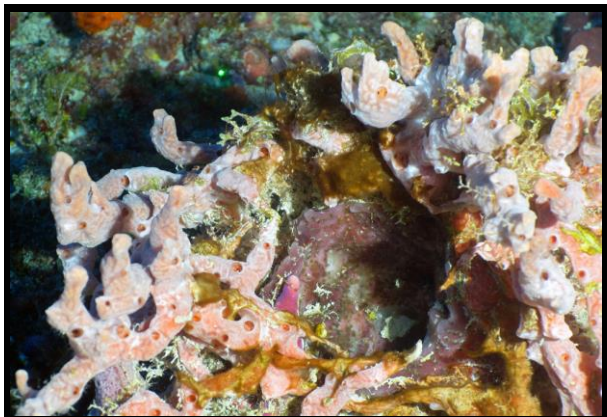
44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Desmapsamma anchorata

(Carter, 1882)



201908141013_T-11-00-37_0166.jpg

14-VIII-19-1-013

IDENTIFIER: M.C. Diaz (HBOI) **

Massive/lobate, ramose, leathery, pink/white; oscules: abundant, top and side of branches, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Desmacididae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Desmapsamma anchorata

(Carter, 1882)



201908141013_Deck1.JPG

14-VIII-19-1-013

IDENTIFIER: M.C. Diaz (HBOI) **

Creeping/branching, pink.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Desmacididae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Hymedesmia (Hymedesmia) agariciicola

van Soest, 1984



201908151017_Deck2.JPG

15-VIII-19-1-017

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, red; Species common living under coral plates and rubble.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

DEPTH:

54 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Hymedesmia (Hymedesmia) cf. jamaicensis

van Soest, 1984



201908141016_Deck3.JPG

14-VIII-19-1-016

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, brown/red; Species common living under coral plates and rubble.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

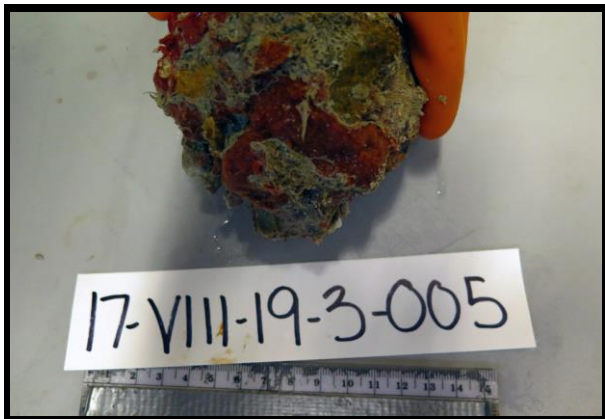
DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Hymedesmia sp. FK-01



201908173005_Deck01.JPG

17-VIII-19-3-005

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, red; Species common living under coral plates and rubble.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

DEPTH:

96 m

LOCATION:

Florida, SW of Marquesas, Deepwater Warsaw Sinkhole, Outside FKNMS, Station FK-10, ROV 19-10, UNCW 782

***Hymedesmia* sp. FK-02**



201908173006_Deck01.JPG

17-VIII-19-3-006

IDENTIFIER: M.C. Diaz (HBOI) **

Thick encrusting, orange; Species common living under coral plates and rubble.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

DEPTH:

96 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Phorbas amaranthus

Duchassaing & Michelotti, 1864



201908173_T-17-23-39_0072a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Thin encrusting, papillate, orange; oscules: not visible.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

DEPTH:

95 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Phorbas amaranthus

Duchassaing & Michelotti, 1864



201908173_T-17-13-12_0051a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Thick encrusting, papillate, red.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Hymedesmiidae

DEPTH:

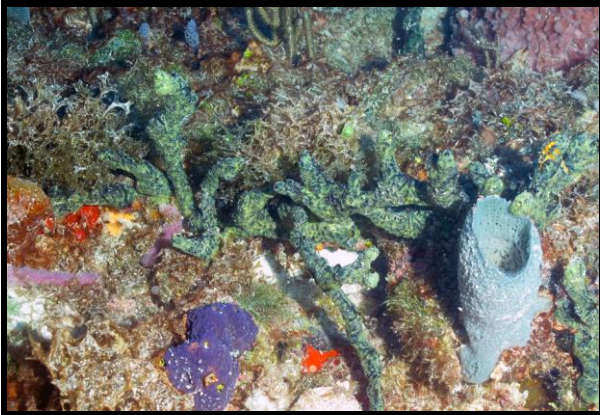
95 m

LOCATION:

Florida, SW of Marquesas, Deepwater Warsaw Sinkhole, Outside FKNMS, Station FK-10, ROV 19-10, UNCW 782

Iotrochota birotulata

(Higgin, 1877)



201908203008_T-16-22-37_0078.jpg

20-VIII-19-3-008

IDENTIFIER: S. Pomponi (HBOI) **

Creeping/branching, irregular/cone projections, green/black; oscules: abundant, along branches, oscular membranes: dark.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Iotrochotidae

DEPTH:

26 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Iotrochota birotulata

(Higgin, 1877)



201908203008_Deck3.JPG

20-VIII-19-3-008

IDENTIFIER: S. Pomponi (HBOI) **

Creeping/branching, irregular/cone projections, green/black; oscules: abundant, along branches, oscular membranes: dark.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Iotrochotidae

DEPTH:

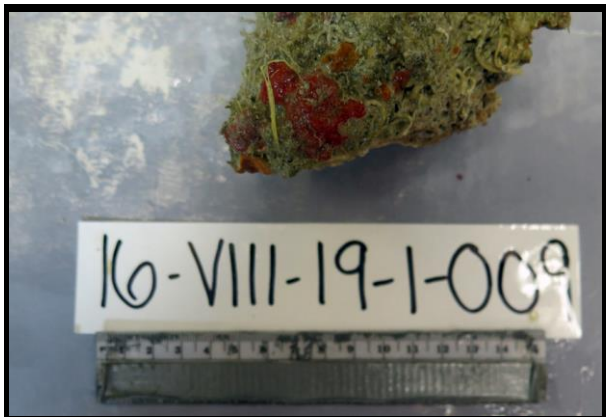
26 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Clathria (Thalysias) cf. minuta

(van Soest, 1984)



201908161009_Deck2.JPG

16-VIII-19-1-009

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, orange.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Microcionidae

DEPTH:

91 m

LOCATION:

Florida, Cudjoe, SE of Looe Key, Deepwater Mound, FKNMS, Station FK-07, ROV 19-06, UNCW 778

Clathria (Thalysias) cf. minuta

(van Soest, 1984)



201908173003_T-17-36-56_0098.jpg

17-VIII-19-3-003

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, red.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Microcionidae

DEPTH:

93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Clathria (Thalysias) cf. minuta

(van Soest, 1984)



201908173003_Deck01.JPG

17-VIII-19-3-003

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, red.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Microcionidae

DEPTH:

93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

***Clathria* sp.**



201908151_T-10-19-20_0108.jpg

IDENTIFIER: J. Reed (HBOI) *

Bush, flat branches end in dichotomy, hispid, orange; not certain of id.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Microcionidae

DEPTH:

47 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Clathria (Thalysias) venosa

(Alcolado, 1984)



201908131_T-15-25-08_0092a.jpg

IDENTIFIER: J. Reed (HBOI) *

Thin encrusting, dermal canals profusely branched, tan; oscules: sparse, oscular membranes: lighter; with lighter colored canals.

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Microcionidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

***Mycale* sp. FK-01**



201908151007_T-09-07-44_0036.jpg

15-VIII-19-1-007

CLASS:

Demospongiae

ORDER:

Poecilosclerida

FAMILY:

Mycalidae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, E of Grecian
Rocks, Mesophotic Reef, FKNMS,
Station FK-04, ROV 19-04,
UNCW 776

IDENTIFIER: M.C. Diaz (HBOI) **

Thick encrusting, egg yolk yellow; oscules: not visible.

Svenzea zeai

(Alvarez, van Soest & Rützler, 1998)



201908142_T-16-16-01_0241a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/thick encrusting, velvet, red wine; oscules: sparse, oscular membranes: translucent.

CLASS:

Demospongiae

ORDER:

Scopalinida

FAMILY:

Scopalinidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Svenzea zeai

(Alvarez, van Soest & Rützler, 1998)



201908142_T-16-16-44_0244a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive, amorphous, velvet, red wine; oscules: sparse, on top of chimney(s), oscular membranes: not visible.

CLASS:

Demospongiae

ORDER:

Scopalinida

FAMILY:

Scopalinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Topsentia ophiraphidites

(Laubenfels, 1934)



201908142_T-16-19-45_0249.jpg

IDENTIFIER: J. Reed (HBOI) *

Club, smooth, pink/grayish; oscules: sparse, on top of lobe(s), grey finger, smooth surface.

CLASS:

Demospongiae

ORDER:

Suberitida

FAMILY:

Halichondriidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Rhizaxinella clava

(Schmidt, 1870)



201908173002_T-16-19-32_0006.jpg

17-VIII-19-3-002

IDENTIFIER: M.C. Diaz (HBOI) **

Stalked bush, roundish to oval upper body, 2-7 cm tall; 1.5-3 cm diam tops; stalk 3-4 mm thick; microhispid, yellow/brown; oscules: apical, 1-2 mm wide, Congregated in sandy bottom.

CLASS:

Demospongiae

ORDER:

Suberitida

FAMILY:

Suberitidae

DEPTH:

95 m

LOCATION:

Florida, SW of Marquesas, Deepwater Warsaw Sinkhole, Outside FKNMS, Station FK-10, ROV 19-10, UNCW 782

Rhizaxinella clava

(Schmidt, 1870)



201908173002_Deck02.JPG

17-VIII-19-3-002

IDENTIFIER: M.C. Diaz (HBOI) **

Stalked bush, roundish to oval upper body, 2-7 cm tall; 1.5-3 cm diam tops; stalk 3-4 mm thick; microhispid, yellow/brown; oscules: apical, 1-2 mm wide, Congregated in sandy bottom.

CLASS:

Demospongiae

ORDER:

Suberitida

FAMILY:

Suberitidae

DEPTH:

95 m

LOCATION:

Florida, SW of Marquesas, Deepwater Warsaw Sinkhole, Outside FKNMS, Station FK-10, ROV 19-10, UNCW 782

Terpios sp. FK-01



201908151018_Deck2.JPG

15-VIII-19-1-018

IDENTIFIER: M.C. Diaz (HBOI) **

Thin encrusting, red.

CLASS:

Demospongiae

ORDER:

Suberitida

FAMILY:

Suberitidae

DEPTH:

54 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Geodia neptuni

(Sollas, 1886)



201908203_T-15-36-48_0036a.jpg

IDENTIFIER: J. Reed (HBOI) **

Vase, rim outwardly folded, irregular, red/brown; oscules: present, on inner cavity.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Geodiidae

DEPTH:

27 m

LOCATION:

Florida, Tortugas, Deep Patch Reef, Outside FKNMS, Block 68, Site FK-18, ROV 19-18, UNCW 790

Geodia neptuni

(Sollas, 1886)



201908162009_T-16-23-37_0247.jpg

16-VIII-19-2-009

IDENTIFIER: M.C. Diaz (HBOI) **

Massive/amorphous, irregular flat top, rugose, elongated deep pits; brown; oscules: clustered, on apical depression.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Geodiidae

DEPTH:

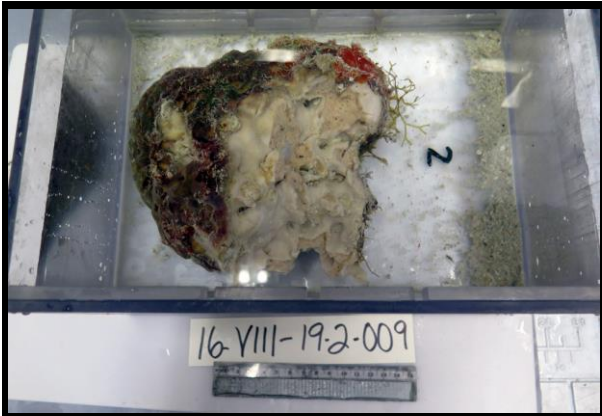
25 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Geodia neptuni

(Sollas, 1886)



201908162009_Deck2.JPG

16-VIII-19-2-009

IDENTIFIER: M.C. Diaz (HBOI) **

Massive/amorphous, irregular flat top, rugose, brown; tan internally.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Geodiidae

DEPTH:

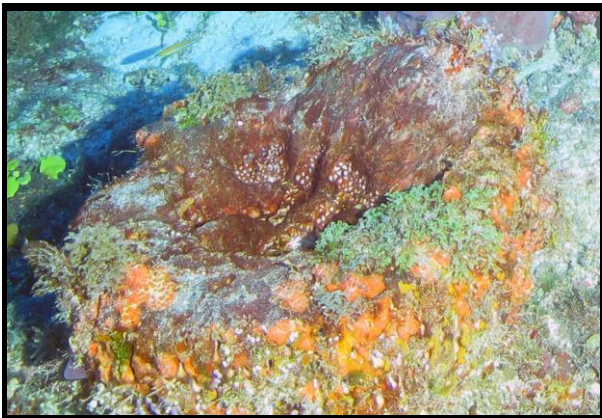
25 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Geodia cf. neptuni

(Sollas, 1886)



201908141_T-10-12-54_0114a.jpg

IDENTIFIER: M.C. Diaz, S. Pomponi (HBOI) *

Massive/subglobular, apical depression, rugose, encrusted; brown; oscules: clumped, on apical depression.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Geodiidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Geodia cf. neptuni

(Sollas, 1886)



201908162005_T-13-54-38_0040.jpg

16-VIII-19-2-005

IDENTIFIER: S. Pomponi (HBOI) **

Bowl, rugose, elongated deep pits; brown/orange; oscules: clumped, on inner wall.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Geodiidae

DEPTH:

34 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Cinachyrella kuekenthali

(Uliczka, 1929)



201908142_T-14-51-17_0132a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Subspherical, covered with porocalices, yellow; oscules: apical.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Tetillidae

DEPTH:

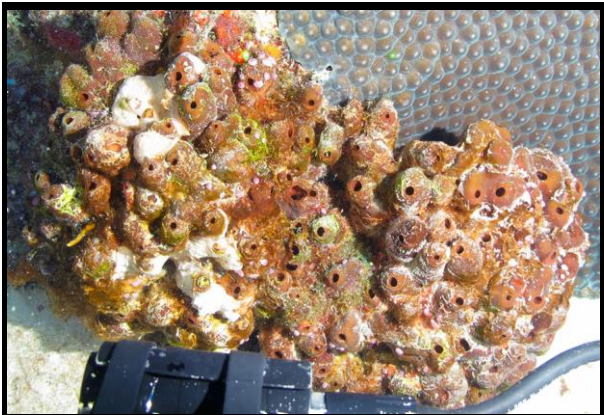
32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Discodermia dissoluta

Schmidt, 1880



201908142007_T-16-57-23_0294.jpg

14-VIII-19-2-007

IDENTIFIER: S. Pomponi (HBOI) **

Massive/lobate, velvet, brown/red; oscules: on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Theonellidae

DEPTH:

35 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Discodermia dissoluta

Schmidt, 1880



201908142007_Deck1.JPG

14-VIII-19-2-007

IDENTIFIER: S. Pomponi (HBOI) **

Cluster of lobes, brown/red; oscules: apical.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Theonellidae

DEPTH:

35 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Discodermia dissoluta

Schmidt, 1880



201908152005_T-14-53-16_0075.jpg

15-VIII-19-2-005

IDENTIFIER: S. Pomponi (HBOI) **

Massive/lobate, velvet, brown/red; oscules: on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Theonellidae

DEPTH:

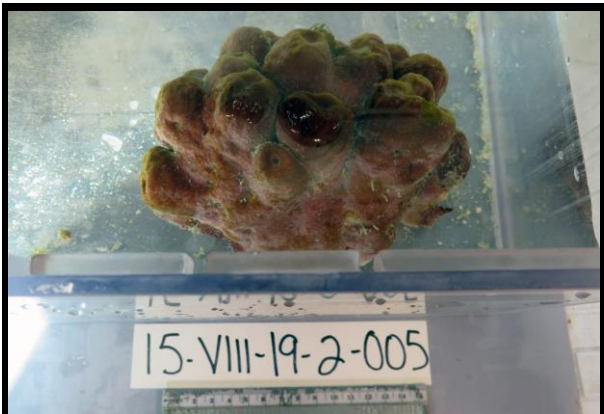
44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Discodermia dissoluta

Schmidt, 1880



201908152005_Deck2.JPG

15-VIII-19-2-005

IDENTIFIER: S. Pomponi (HBOI) **

Massive/lobate, velvet, brown/tan; oscules: on top of lobe(s).

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Theonellidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Poecillastra sp. FK-03



201908172002_T-11-27-40_0065.jpg

17-VIII-19-2-002

IDENTIFIER: M.C. Diaz (HBOI) **

Amorphous, yellow; oscules: not visible.

CLASS:

Demospongiae

ORDER:

Tetractinellida

FAMILY:

Vulcanellidae

DEPTH:

113 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Aiolochoia crassa

(Hyatt, 1875)



201908151_T-09-19-02_0061.jpg

IDENTIFIER: J. Reed (HBOI) *

Massive, round conules, yellow/orange; oscules: abundant, round, oscular membranes: yellow orange.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Aiolochoia crassa

(Hyatt, 1875)



201908131_T-17-32-30_0212a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Amorphous, round conules, yellow; oscules: abundant, round, oscular membranes: yellow.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Aplysina cauliformis

(Carter, 1882)



201908141_T-10-04-09_0093b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Creeping/branching, microconulose, purple; oscules: abundant, along branches, oscular membranes: white.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

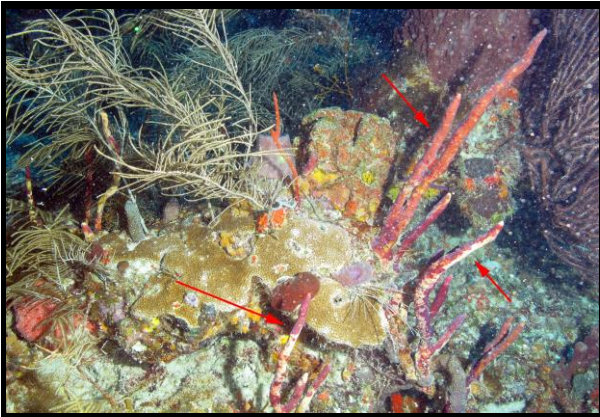
43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Aplysina cf. cauliformis

(Carter, 1882)



201908142_T-16-20-11_0250b.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Erect branching, microconulose, red with white patches; oscules: abundant, along branches, oscular membranes: yellow.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Verongula sp. FK-01^N



201908131_T-17-34-01_0216.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, overgrown, pitted; yellow/red; oscules: apical, oscular membranes: present; Identification of this species requires the study of the fiber reticulation.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Verongula sp. FK-01^N



201908142_T-16-13-46_0235.jpg

IDENTIFIER: J. Reed (HBOI) *

Tube(s), thick wall, convoluted, partially overgrown; yellow; oscules: on top of tube(s), oscular membranes: yellow; undescribed species distributed in Northern, eastern and central Caribbean, Florida, and Bahamas.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

Aplysinidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Verongiida FK-01



201908142_T-16-16-14_0242.jpg

IDENTIFIER: MCD *

Massive/amorphous to thick encrusting, smooth to conulose, subdermal canals; yellow/orange; oscules: abundant, round, 2-4 mm wide, oscular membranes: collar; maybe *Vansoestia* sp..

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

FK-01

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Verongiida FK-01



201908141_T-11-33-25_0231.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/amorphous to thick encrusting, smooth to conulose, subdermal canals; yellow/orange; oscules: abundant, round, 2-4 mm wide, oscular membranes: collar; maybe *Vansoestia* sp..

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

FK-01

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Verongiida FK-02



201908131_T-17-37-31_0223.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Cluster hollow tubes, subglobular, overgrown, pitted; yellow/red; oscules: apical, oscular membranes: present; Identification of this species requires the study of the fiber reticulation.

CLASS:

Demospongiae

ORDER:

Verongiida

FAMILY:

FK-02

DEPTH:

35 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

***Demospongiae* FK-02**



201908131_T-16-14-11_0143a.jpg

IDENTIFIER: MCD *

Massive, red; oscules: on top of volcano projections, 5-8 mm wide, this may be a massive form *Phorbas amaranthus*.

CLASS:

Demospongiae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Plakortis angulospiculatus

(Carter, 1879)



201908142_T-14-45-25_0113a.jpg

IDENTIFIER: M.C. Diaz (HBOI) *

Massive/thick encrusting, smooth, brown; oscules: sparse, elevated, oscular membranes: brown.

CLASS:

Homoscleromorpha

ORDER:

Homosclerophorida

FAMILY:

Plakinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Plakortis angulospiculatus

(Carter, 1879)



201908151012_T-10-05-25_0100.jpg

15-VIII-19-1-012

IDENTIFIER: M.C. Diaz (HBOI) **

Amorphous, smooth, brown; oscules: sparse, round, oscular membranes: dark.

CLASS:

Homoscleromorpha

ORDER:

Homosclerophorida

FAMILY:

Plakinidae

DEPTH:

50 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Millepora alcornis

Linnaeus, 1758



201908142_T-14-44-31_0111.jpg

IDENTIFIER: J. Reed (HBOI) *
patchy paling.

CLASS:

Hydrozoa

ORDER:

Anthoathecata

FAMILY:

Milleporidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Millepora alcornis

Linnaeus, 1758



201908142_T-14-46-56_0117a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *
Sparse branching, yellow.

CLASS:

Hydrozoa

ORDER:

Anthoathecata

FAMILY:

Milleporidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Gymnangium sp.



201908131_T-15-30-01_0101.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Hydrozoa

ORDER:

Leptothecata

FAMILY:

Aglaopheniidae

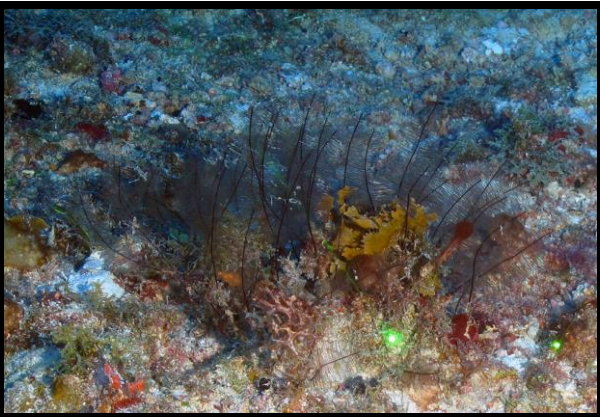
DEPTH:

42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Gymnangium sp.



201908141_T-11-26-24_0210.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Hydrozoa

ORDER:

Leptothecata

FAMILY:

Aglaopheniidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Hydrozoa



201908173_T-16-50-23_0020.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Hydrozoa

DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Hydrozoa



201908172_T-11-53-55_0096.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Hydrozoa

DEPTH:

112 m

LOCATION:

Florida, Key West, SW of Sand
Key, Deepwater Ridge, Outside
FKNMS, Station FK-09, ROV 19-
09, UNCW 781; same as previous
dive

Hydrozoa



201908161_T-10-03-23_0132.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Hydrozoa

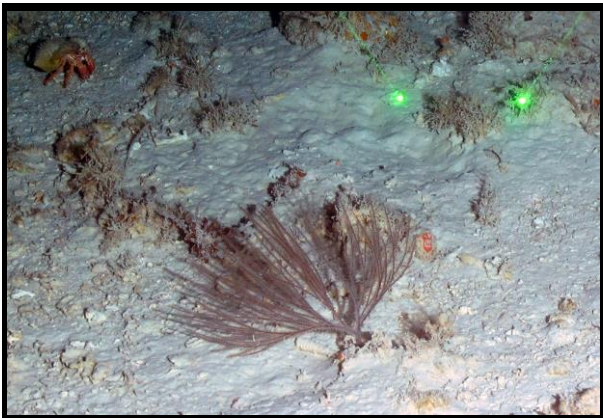
DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Hydrozoa



201908161_T-09-29-44_0075.jpg

IDENTIFIER: J. Reed (HBOI) *

not black coral.

CLASS:

Hydrozoa

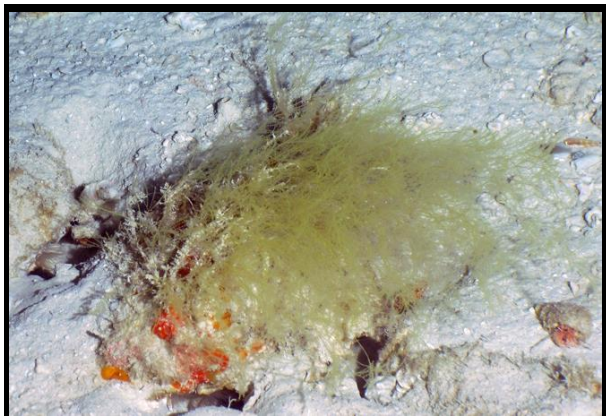
DEPTH:

87 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Hydrozoa



201908161006_T-10-04-53_0134.jpg

16-VIII-19-1-006

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Hydrozoa

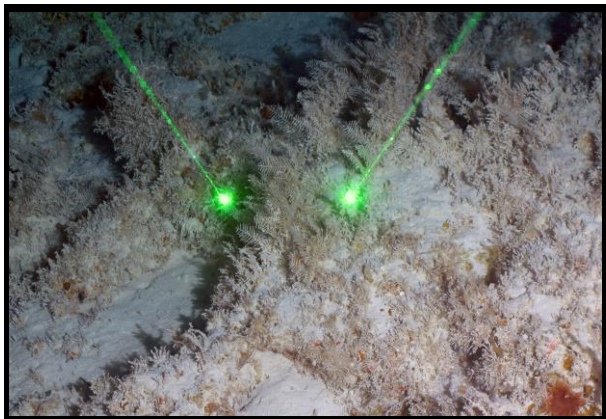
DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Hydroidolina



201908173_T-16-50-23_0020a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Sparse branching, tan.

CLASS:

Hydrozoa

DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Hydroidolina



201908201005_T-10-13-05_0121.jpg

20-VIII-19-1-005

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Hydrozoa

DEPTH:

34 m

LOCATION:

Florida, Tortugas Bank, Deepwater Reef, West Flank of Bank, Outside of TER North, Block #46, Station FK-16, ROV 19-16, UNCW 788

Scleractinia- unid solitary



201908172_T-11-20-58_0042.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

DEPTH:

113 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Scleractinia- unid solitary



201908172_T-11-02-06_0014.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

DEPTH:

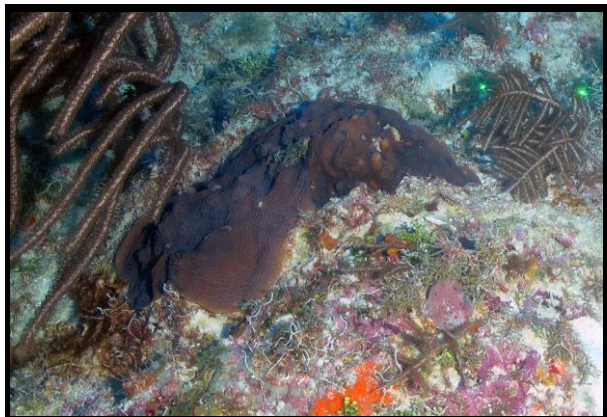
115 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Agaricia agaricites

(Linnaeus, 1758)



201908151_T-11-06-34_0165.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Agaricia agaricites

(Linnaeus, 1758)



201908142_T-16-35-08_0275.jpg

IDENTIFIER: J. Reed (HBOI) *

Paling- 5%.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

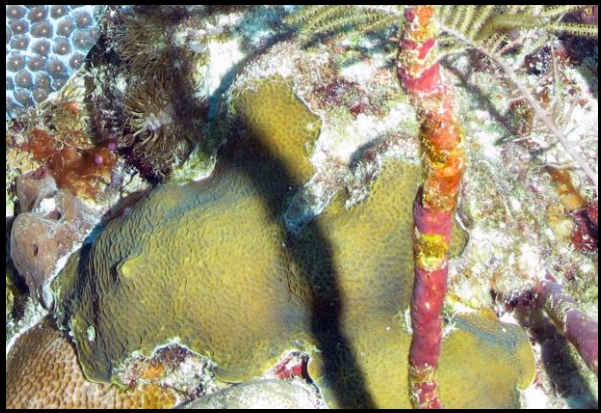
33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agaricia agaricites

(Linnaeus, 1758)



201908142_T-16-34-20_0274b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Plate coral, yellow.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agaricia agaricites

(Linnaeus, 1758)



201908142_T-16-32-37_0271.jpg

IDENTIFIER: J. Reed (HBOI) *

Agaricia agaricites with disease; lesion progression 50%.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agaricia agaricites

(Linnaeus, 1758)



201908131_T-16-00-01_0130.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agaricia agaricites

(Linnaeus, 1758)



201908142_T-14-49-34_0127.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agaricia lamarcki

Milne Edwards & Haime, 1851



201908131_T-17-33-16_0215.jpg

IDENTIFIER: J. Reed (HBOI) *

Plate coral, tan.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agaricia lamarcki

Milne Edwards & Haime, 1851



201908131_T-17-06-13_0184.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agaricia lamarcki

Milne Edwards & Haime, 1851



201908131_T-17-36-10_0219.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Agaricia lamarcki

Milne Edwards & Haime, 1851



201908142_T-14-44-31_0111b.jpg

IDENTIFIER: J. Reed (HBOI) *

Diseased - patchy paling.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Agaricia sp.



201908131_T-17-29-27_0206a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Plate coral, brown.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Agariciidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Stephanocoenia intersepta

(Lamarck, 1836)



201908131_T-16-20-01_0153b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Mound coral, brown.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Astrocoeniidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Stephanocoenia intersepta

(Lamarck, 1836)



201908162_T-14-22-43_0053a.jpg

IDENTIFIER: Alexis Sturm (HBOI) *

brown; 3 colonies.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Astrocoeniidae

DEPTH:

34 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Stephanocoenia intersepta

(Lamarck, 1836)



201908151_T-11-10-02_0177.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Astrocoeniidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Stephanocoenia intersepta

(Lamarck, 1836)



201908142_T-16-20-11_0250a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Plate coral, brown.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Astrocoeniidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Stephanocoenia intersepta

(Lamarck, 1836)



201908131_T-17-37-31_0223c.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Astrocoeniidae

DEPTH:

35 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Eusmilia fastigiata

(Pallas, 1766)



201908142_T-14-54-16_0143.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Meandrinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Meandrina meandrites

(Linnaeus, 1758)



201908162_T-14-22-43_0053.jpg

IDENTIFIER: J. Reed (HBOI) *

flower coral.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Meandrinidae

DEPTH:

34 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Orbicella faveolata

(Ellis & Solander, 1786)



201908142_T-14-44-31_0111c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Merulinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Orbicella faveolata

(Ellis & Solander, 1786)



201908142_T-14-56-13_0148.jpg

IDENTIFIER: J. Reed (HBOI) *

Plate coral, flat plate coral.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Merulinidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Orbicella faveolata

(Ellis & Solander, 1786)



201908142_T-16-36-49_0280.jpg

IDENTIFIER: J. Reed (HBOI) *

Plate coral, plate coral.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Merulinidae

DEPTH:

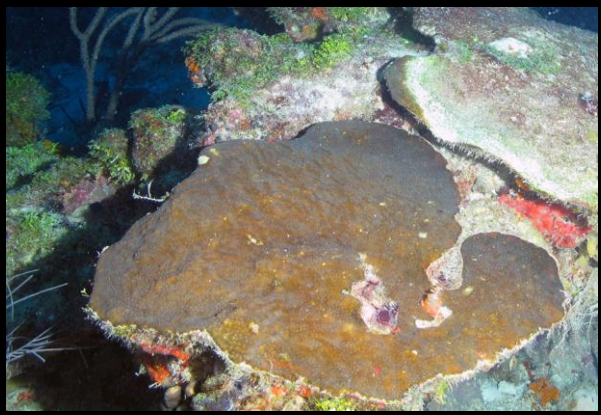
32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Orbicella faveolata

(Ellis & Solander, 1786)



201908131022_T-17-13-05_0198.jpg

13-VIII-19-1-022

IDENTIFIER: Alexis Sturm (HBOI) **

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Merulinidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Montastraea cavernosa

(Linnaeus, 1767)



201908151_T-11-08-16_0171.jpg

IDENTIFIER: J. Reed (HBOI) *

brown; dk brown.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Montastraea cavernosa

(Linnaeus, 1767)



201908131_T-16-13-40_0142b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Plate coral, blue; with cyanobacteria mat.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Montastraea cavernosa

(Linnaeus, 1767)



201908142_T-14-46-26_0115.jpg

IDENTIFIER: J. Reed (HBOI) *

Cone shaped, tan; conical, tan.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

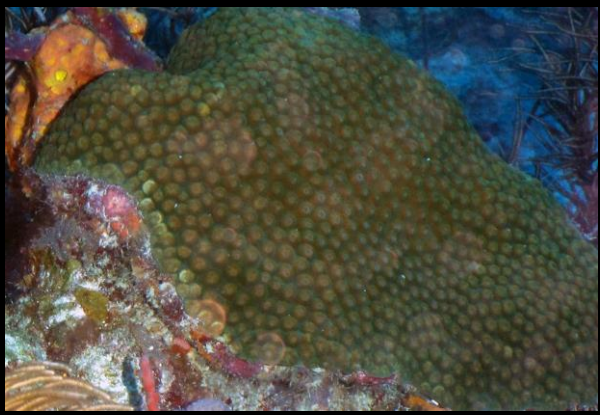
33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Montastraea cavernosa

(Linnaeus, 1767)



201908142_T-14-54-27_0144a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Mound coral, green.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

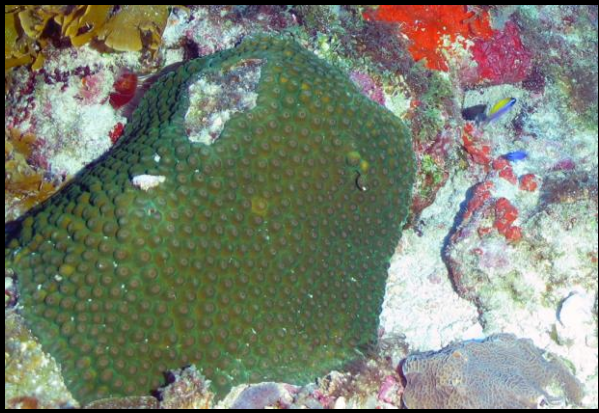
32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Montastraea cavernosa

(Linnaeus, 1767)



201908152_T-15-06-26_0081.jpg

IDENTIFIER: J. Reed (HBOI) *
green; green.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Montastraea cavernosa

(Linnaeus, 1767)



201908141_T-11-23-55_0181.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Montastraea cavernosa

(Linnaeus, 1767)



201908141_T-10-08-28_0105b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Mound coral, blue.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Montastraea cavernosa

(Linnaeus, 1767)



201908141_T-11-29-21_0217b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Mound coral, purple.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Montastraea cavernosa

(Linnaeus, 1767)



201908142_T-16-34-20_0274.jpg

IDENTIFIER: J. Reed (HBOI) *

2 color morphs.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Montastraea cavernosa

(Linnaeus, 1767)



201908131_T-17-40-42_0228.jpg

IDENTIFIER: J. Reed (HBOI) *

Mound coral.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Montastraeidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Mycetophyllia aliciae

Wells, 1973



201908131_T-17-32-10_0211.jpg

IDENTIFIER: J. Reed (HBOI) *

Plate coral, green.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Mussidae

DEPTH:

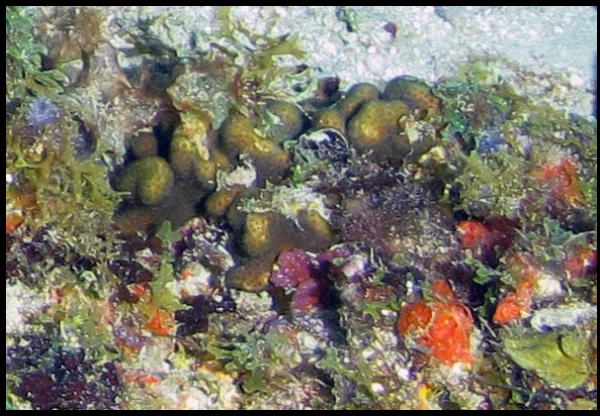
38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Madracis decactis

(Lyman, 1859)



201908131_T-17-41-31_0231a.jpg

IDENTIFIER: J. Reed (HBOI) *

Lobate.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Pocilloporidae

DEPTH:

38 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Madracis decactis

(Lyman, 1859)



201908142_T-16-33-26_0273.jpg

IDENTIFIER: J. Reed (HBOI) *

Lobate, lobate.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Pocilloporidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Madracis senaria

Wells, 1973



201908131_T-17-08-18_0185a.jpg

IDENTIFIER: J. Reed (HBOI) *

Plate coral, brown; flat, brown coral.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Pocilloporidae

DEPTH:

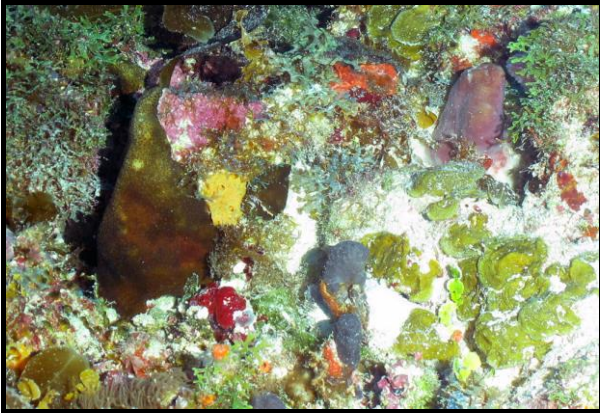
36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Madracis senaria

Wells, 1973



201908152_T-16-06-13_0147.jpg

IDENTIFIER: J. Reed (HBOI) *

Cone shaped, bright orange; conical brown.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Pocilloporidae

DEPTH:

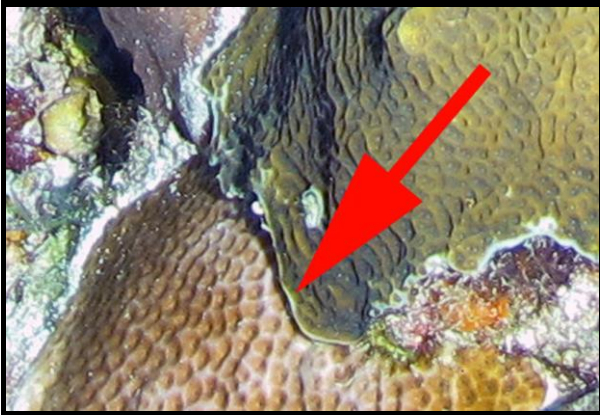
44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Siderastrea siderea

(Ellis & Solander, 1786)



201908142_T-16-34-20_0274c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Siderastreidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Siderastrea siderea

(Ellis & Solander, 1786)



201908141_T-11-33-41_0232a.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Siderastreidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Siderastrea siderea

(Ellis & Solander, 1786)



201908131_T-16-01-04_0135.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Siderastreidae

DEPTH:

40 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Siderastrea siderea

(Ellis & Solander, 1786)



201908142_T-16-20-11_0250.jpg

IDENTIFIER: J. Reed (HBOI) *

Marginal paling; not disease.

CLASS:

Anthozoa

ORDER:

Scleractinia

FAMILY:

Siderastreidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Corallimorpharia



201908173_T-17-22-20_0069.jpg

IDENTIFIER: J. Reed (HBOI) *
Solitary/Single Polyp, brown/purple.

CLASS:

Anthozoa

ORDER:

Corallimorpharia

DEPTH:

93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Corallimorpharia



201908173_T-17-17-18_0055.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Corallimorpharia

DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Corallimorpharia



201908173_T-16-57-14_0031.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Corallimorpharia

DEPTH:

93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Ricordea florida

Duchassaing & Michelotti, 1860



201908152_T-15-29-05_0108.jpg

IDENTIFIER: J. Reed (HBOI) *

purple.

CLASS:

Anthozoa

ORDER:

Corallimorpharia

FAMILY:

Ricordeidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French
Reef, Mesophotic Reef, FKNMS,
Station FK-06, ROV 19-05,
UNCW 777

Antipathes furcata

Gray, 1857



201908161005_T-09-50-41_0126.jpg

16-VIII-19-1-005

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

89 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Antipathes furcata

Gray, 1857



201908161005_Deck2.JPG

16-VIII-19-1-005

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

89 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Antipathes furcata

Gray, 1857



201908173004_T-17-50-15_0116.jpg

17-VIII-19-3-004

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Antipathes furcata

Gray, 1857



201908173004_Deck02.JPG

17-VIII-19-3-004

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

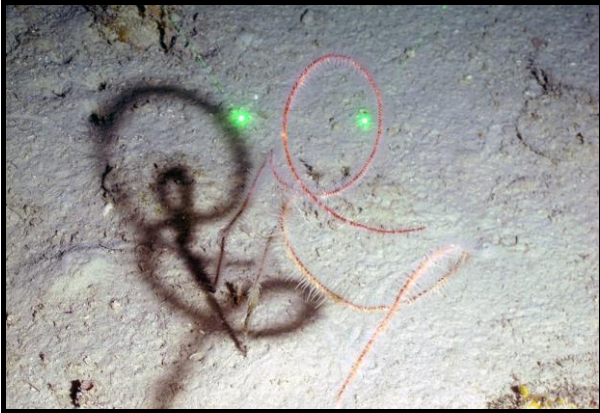
93 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Stichopathes luetkeni

Brook, 1889



201908172_T-11-10-33_0034.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

114 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Stichopathes luetkeni

Brook, 1889



201908131_T-17-05-36_0183.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Antipathidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Tanacetipathes barbadensis

(Brook, 1889)



201908131_T-15-55-12_0122c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Sparse branching, purple.

CLASS:

Anthozoa

ORDER:

Antipatharia

FAMILY:

Myriopathidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

Alcyonacea- gorgonian



201908172_T-10-57-06_0008.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

DEPTH:

116 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Erythropodium caribaeorum

(Duchassaing & Michelotti, 1860)



201908131_T-16-18-30_0150c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thin encrusting, tan.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Erythropodium caribaeorum

(Duchassaing & Michelotti, 1860)



201908142_T-16-36-29_0278a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Encrusting, bright orange.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Erythropodium caribaeorum

(Duchassaing & Michelotti, 1860)



201908131_T-17-36-38_0220a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thin encrusting, tan.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

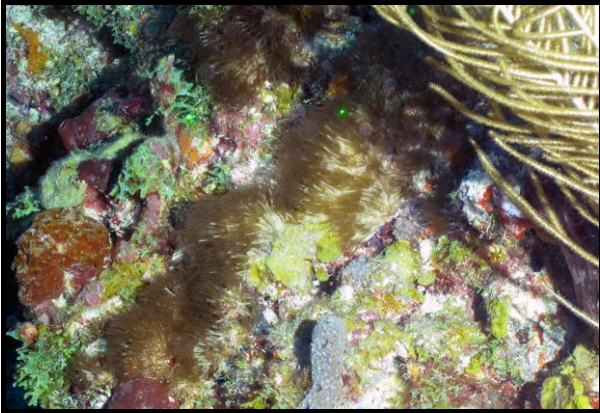
37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Erythropodium caribaeorum

(Duchassaing & Michelotti, 1860)



201908142_T-14-55-57_0146.jpg

IDENTIFIER: J. Reed (HBOI) *

long polyps.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

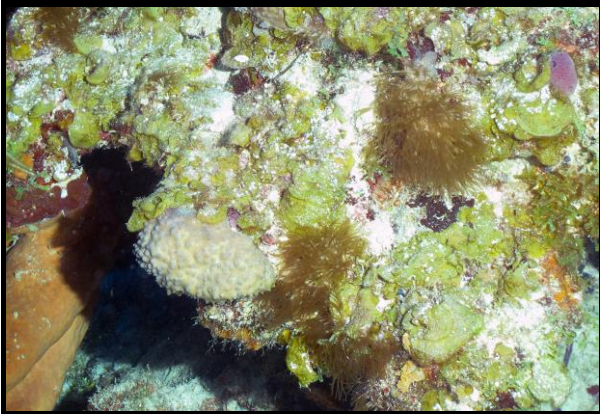
32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Erythropodium caribaeorum

(Duchassaing & Michelotti, 1860)



201908142_T-14-45-25_0113b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thin encrusting, brown.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Iciligorgia schrammi

Duchassaing, 1870



201908131_T-17-28-08_0203c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Sparse branching, brown.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

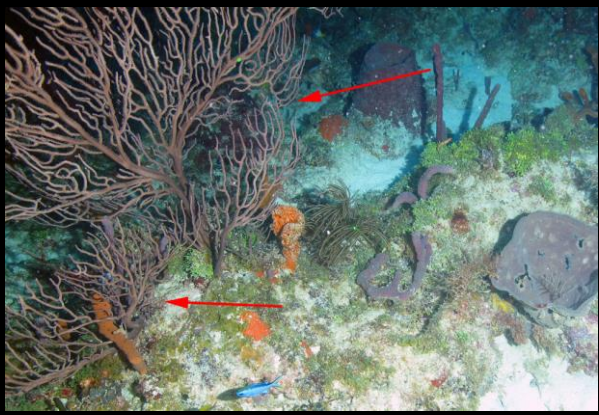
36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Iciligorgia schrammi

Duchassaing, 1870



201908131_T-17-27-20_0201.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Anthothelidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Carijoa riisei

(Duchassaing & Michelotti, 1860)



201908142_T-16-14-33_0238c.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Clavulariidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Ellisella elongata

(Pallas, 1766)



201908131_T-16-18-30_0150.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Ellisellidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Ellisella elongata

(Pallas, 1766)



201908141_T-10-02-53_0090.jpg

IDENTIFIER: J. Reed (HBOI) *

Sparse branching, red.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Ellisellidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

***Nicella* sp.**



201908141_T-10-05-15_0096a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Sparse branching, red.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Ellisellidae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

***Nicella* sp.**



201908131_T-17-05-36_0183a.jpg

IDENTIFIER: J. Reed (HBOI) *
red.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Ellisellidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South
Carysfort Reef, Mesophotic Reef,
FKNMS, Station FK-01, ROV 19-
01, UNCW 773

***Nicella* sp.**



201908141_T-10-06-17_0100.jpg

IDENTIFIER: J. Reed (HBOI) *
2.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Ellisellidae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, NE of The
Elbow Reef, Mesophotic Reef,
FKNMS, Station FK-02, ROV 19-
02, UNCW 774

Antillogorgia sp.



201908142_T-16-14-14_0237.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Gorgoniidae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Antillogorgia sp.



201908131_T-17-06-13_0184a.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Gorgoniidae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Antillogorgia sp.



201908131_T-15-29-34_0100.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Gorgoniidae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Antillogorgia sp.



201908142_T-14-44-08_0110a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Sparse branching, white.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Gorgoniidae

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Antillogorgia sp.



201908131_T-17-29-00_0205a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Dense branches, brown.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Gorgoniidae

DEPTH:

36 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Nidalia occidentalis

Gray, 1835



201908172_T-11-10-27_0033a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Bushy, yellow.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Nidaliidae

DEPTH:

114 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Plexauridae



201908131_T-15-26-47_0094.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Bebryce sp.



201908172003_T-11-41-09_0077.jpg

17-VIII-19-2-003

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

112 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

***Bebryce* sp.**



201908172003_Deck02.JPG

17-VIII-19-2-003

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

112 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Eunicea calyculata

(Ellis & Solander, 1786)



201908162_T-14-05-38_0047.jpg

IDENTIFIER: J. Reed (HBOI) *

Bush, bushy.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

34 m

LOCATION:

Florida, S of Big Coppitt, Pelican Shoal Reef, FKNMS, Station FK-08, ROV 19-07, UNCW 779

Eunicea calyculata

(Ellis & Solander, 1786)



201908141_T-10-53-36_0149.jpg

IDENTIFIER: J. Reed (HBOI) *
brown; br, tall calyces.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Pseudoplexaura sp.



201908142_T-14-56-13_0148a.jpg

IDENTIFIER: J. Reed (HBOI) *
Sparse branching, tan.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Pseudoplexaura sp.



201908151_T-11-05-58_0164.jpg

IDENTIFIER: J. Reed (HBOI) *

Branching, long branches.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Pseudoplexaura sp.



201908141_T-11-30-07_0219.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Pseudoplexaura sp.



201908131_T-17-31-42_0210.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

37 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Swiftia exserta

(Ellis & Solander, 1786)



201908131014_T-15-33-27_0107.jpg

13-VIII-19-1-014

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Swiftia exserta

(Ellis & Solander, 1786)



201908151010_T-09-47-03_0089.jpg

15-VIII-19-1-010

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Swiftia exserta

(Ellis & Solander, 1786)



201908151010_Deck2.JPG

15-VIII-19-1-010

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

49 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Thesea grandiflora

Deichmann, 1936



201908173_T-16-49-05_0016.jpg

IDENTIFIER: J. Reed (HBOI) *

yellow; ye plane.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

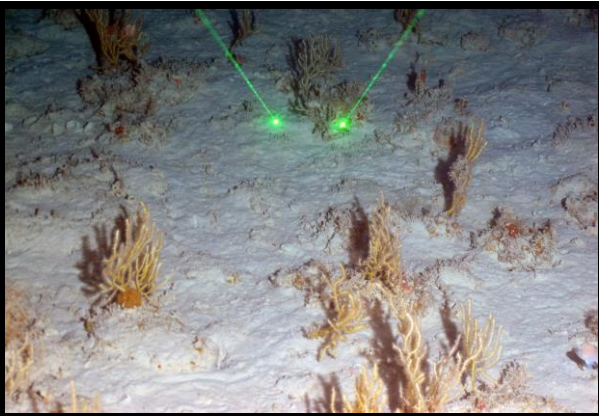
96 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Thesea grandiflora

Deichmann, 1936



201908173_T-16-47-53_0014.jpg

IDENTIFIER: J. Reed (HBOI) *

yellow; ye plane.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

95 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Thesea grandiflora

Deichmann, 1936



201908173001_T-16-12-07_0004.jpg

17-VIII-19-3-001

IDENTIFIER: J. Reed (HBOI) **

Bushy, yellow.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

96 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Thesea grandiflora

Deichmann, 1936



201908173001_Deck01.JPG

17-VIII-19-3-001

IDENTIFIER: J. Reed (HBOI) **

Bushy, yellow.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

96 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Thesea rubra

Deichmann, 1936



201908172_T-10-57-06_0008a.jpg

IDENTIFIER: J. Reed (HBOI) *

Sparse branching, red.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

116 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Thesea rubra

Deichmann, 1936



201908172_T-10-56-51_0007a.jpg

IDENTIFIER: J. Reed (HBOI) *

Sparse branching, red.

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

117 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Thesea rubra

Deichmann, 1936



201908171001_T-08-46-23_0014.jpg

17-VIII-19-1-001

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

118 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-08, UNCW 780

Thesea rubra

Deichmann, 1936



201908171001_Deck02.JPG

17-VIII-19-1-001

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Anthozoa

ORDER:

Alcyonacea

FAMILY:

Plexauridae

DEPTH:

118 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-08, UNCW 780

Spondylus sp.



201908151_T-11-05-58_0164a.jpg

IDENTIFIER: J. Reed (HBOI) *
white.

CLASS:

Bivalvia

ORDER:

Pectinida

FAMILY:

Spondylidae

DEPTH:

45 m

LOCATION:

Florida, Key Largo, E of Grecian
Rocks, Mesophotic Reef, FKNMS,
Station FK-04, ROV 19-04,
UNCW 776

***Tenagodus* sp.**



201908151_T-10-20-00_0110.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Gastropoda

ORDER:

[unassigned] Caenogastropoda

FAMILY:

Siliquariidae

DEPTH:

47 m

LOCATION:

Florida, Key Largo, E of Grecian
Rocks, Mesophotic Reef, FKNMS,
Station FK-04, ROV 19-04,
UNCW 776

Platyhelminthes



201908161003_T-09-03-18_0007.jpg

16-VIII-19-1-003

IDENTIFIER: J. Reed (HBOI) **

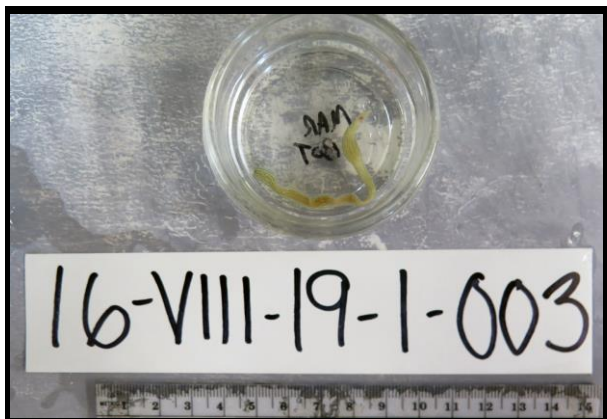
DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Platyhelminthes



201908161003_Deck2.JPG

16-VIII-19-1-003

IDENTIFIER: J. Reed (HBOI) **

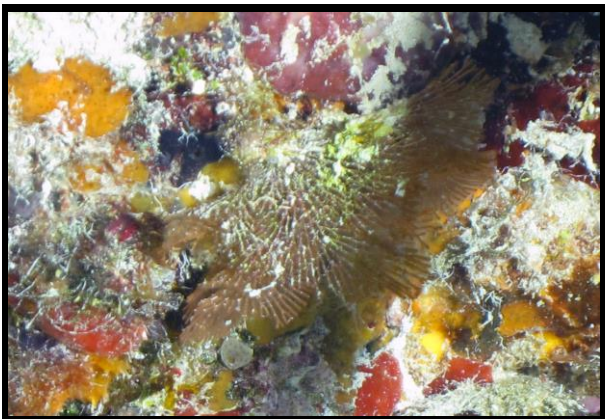
DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Canda sp.



201908142_T-16-19-09_0247.jpg

IDENTIFIER: J. Winston (Smithsonian) *

Fan, tan.

CLASS:

Gymnolaemata

ORDER:

Cheilostomatida

FAMILY:

Candidae

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Bryozoa



201908161010_Deck3.JPG

16-VIII-19-1-010

DEPTH:

91 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

IDENTIFIER: M.C. Diaz (HBOI) **

Anoplodactylus lentus

Wilson, 1878



201908161008_T-10-22-31_0143.jpg

16-VIII-19-1-008

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Pycnogonida

ORDER:

Pantopoda

FAMILY:

Phoxichilidiidae

DEPTH:

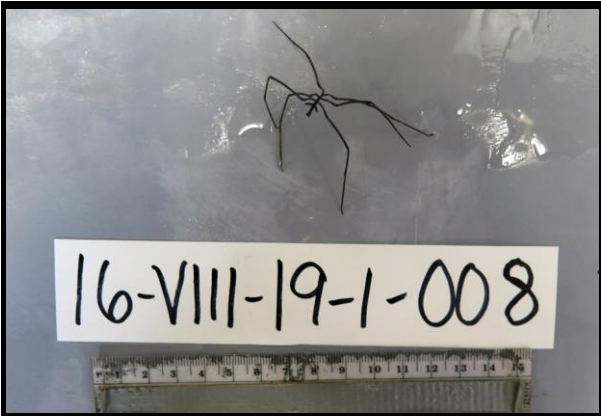
88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Anoplodactylus lentus

Wilson, 1878



201908161008_Deck1.JPG

16-VIII-19-1-008

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Pycnogonida

ORDER:

Pantopoda

FAMILY:

Phoxichilidiidae

DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Diogenes sp.



201908173_T-17-26-54_0082.jpg

IDENTIFIER: J. Reed (HBOI) *
hermit crab.

CLASS:

Malacostraca

ORDER:

Decapoda

FAMILY:

Diogenidae

DEPTH:

95 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Diogenes sp.



201908161_T-09-33-10_0083.jpg

IDENTIFIER: J. Reed (HBOI) *
hermit crab.

CLASS:

Malacostraca

ORDER:

Decapoda

FAMILY:

Diogenidae

DEPTH:

88 m

LOCATION:

Florida, Cudjoe, SE of Looe Key,
Deepwater Mound, FKNMS,
Station FK-07, ROV 19-06,
UNCW 778

Stenorhynchus seticornis

(Herbst, 1788)



201908181_T-08-52-26_0007b.jpg

IDENTIFIER: J. Reed (HBOI) *
red.

CLASS:

Malacostraca

ORDER:

Decapoda

FAMILY:

Inachoididae

DEPTH:

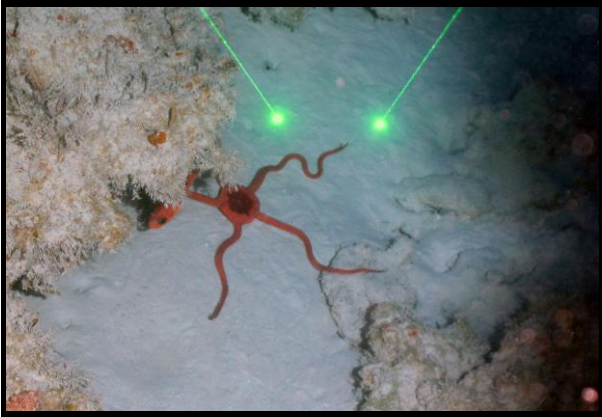
67 m

LOCATION:

Florida, Gulf of Mexico, Pulley
Ridge HAPC, Mesophotic Reef,
Main Ridge South, Block #18,
Station FK-12, ROV 19-11,
UNCW 783

Ophioderma devaneyi

Hendler & Miller, 1984



201908173_T-17-17-32_0056.jpg

IDENTIFIER: J. Reed (HBOI) *

red; giant red.

CLASS:

Ophiuroidea

ORDER:

Ophiacanthida

FAMILY:

Ophiodermatidae

DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Ophioderma devaneyi

Hendler & Miller, 1984



201908173_T-16-49-05_0016b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

red.

CLASS:

Ophiuroidea

ORDER:

Ophiacanthida

FAMILY:

Ophiodermatidae

DEPTH:

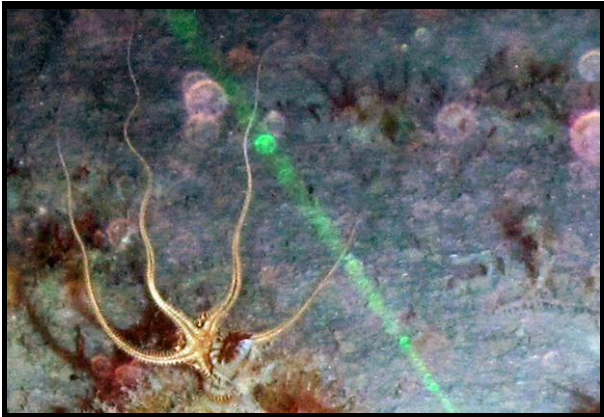
96 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Asteroporpa (Asteroporpa) annulata

Örsted & Lütken in: Lütken, 1856



201908172_T-11-20-58_0042a.jpg

IDENTIFIER: J. Reed (HBOI) *

CLASS:

Ophiuroidea

ORDER:

Euryalida

FAMILY:

Gorgonocephalidae

DEPTH:

113 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Asteroporpa (Asteroporpa) annulata

Örsted & Lütken in: Lütken, 1856



201908172005_Deck02.JPG

17-VIII-19-2-005

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Ophiuroidea

ORDER:

Euryalida

FAMILY:

Gorgonocephalidae

DEPTH:

117 m

LOCATION:

Florida, Key West, SW of Sand Key, Deepwater Ridge, Outside FKNMS, Station FK-09, ROV 19-09, UNCW 781; same as previous dive

Botryllus sp.



201908151_T-10-28-27_0126.jpg

IDENTIFIER: J. Reed (HBOI) *

yellow; ye/black colonial.

CLASS:

Ascidiacea

ORDER:

Stolidobranchia

FAMILY:

Styelidae

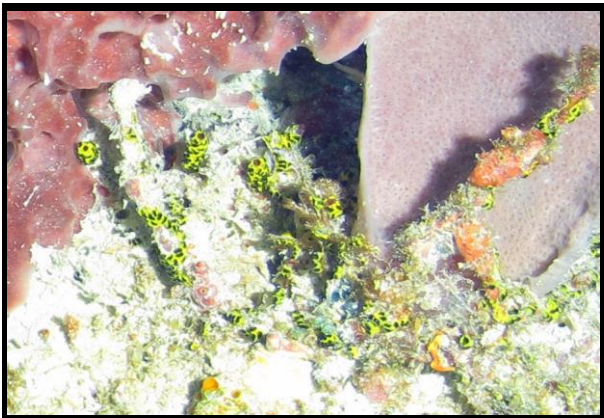
DEPTH:

48 m

LOCATION:

Florida, Key Largo, E of Grecian Rocks, Mesophotic Reef, FKNMS, Station FK-04, ROV 19-04, UNCW 776

Botryllus sp.



201908131_T-16-18-17_0149a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Blob, green.

CLASS:

Ascidiacea

ORDER:

Stolidobranchia

FAMILY:

Styelidae

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

***Botryllus* sp.**



201908151003_T-08-38-16_0021.jpg

15-VIII-19-1-003

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Ascidiacea

ORDER:

Stolidobranchia

FAMILY:

Styelidae

DEPTH:

53 m

LOCATION:

Florida, Key Largo, E of Grecian
Rocks, Mesophotic Reef, FKNMS,
Station FK-04, ROV 19-04,
UNCW 776

Trididemnum solidum

(Van Name, 1902)



201908131_T-15-48-04_0119b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thin encrusting, purple.

CLASS:

Ascidiacea

ORDER:

Aplousobranchia

FAMILY:

Didemnidae

DEPTH:

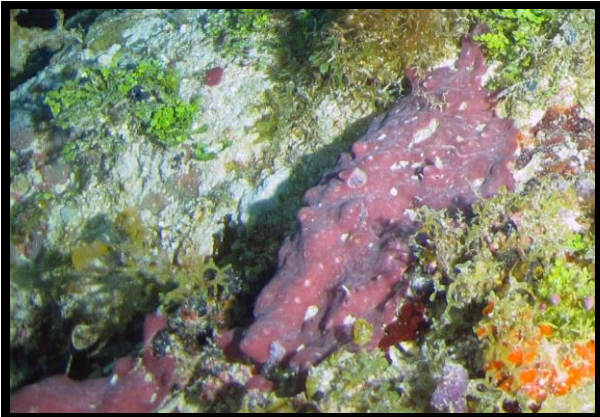
42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Trididemnum solidum

(Van Name, 1902)



201908131_T-16-10-35_0139c.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thick encrusting, purple.

CLASS:

Ascidiacea

ORDER:

Aplousobranchia

FAMILY:

Didemnidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Trididemnum solidum

(Van Name, 1902)



201908131_T-15-55-12_0122a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Thick encrusting, pink; oscules: small, white rim.

CLASS:

Ascidiacea

ORDER:

Aplousobranchia

FAMILY:

Didemnidae

DEPTH:

41 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Trididemnum solidum

(Van Name, 1902)



201908131016_T-16-03-17_0138.jpg

13-VIII-19-1-016

IDENTIFIER: J. Reed (HBOI) **

CLASS:

Ascidiacea

ORDER:

Aplousobranchia

FAMILY:

Didemnidae

DEPTH:

42 m

LOCATION:

Florida, Key Largo, E of South Carysfort Reef, Mesophotic Reef, FKNMS, Station FK-01, ROV 19-01, UNCW 773

Dead Coral (disease)



201908142_T-16-29-19_0267.jpg

IDENTIFIER: J. Reed (HBOI) *

Dead and encrusted coral head.

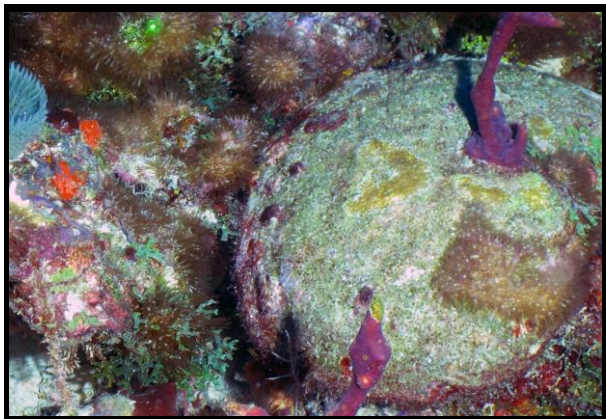
DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Dead Coral (disease)



201908142_T-16-16-33_0243.jpg

IDENTIFIER: J. Reed (HBOI) *

Dead and encrusted coral head.

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Disease- unid.



201908142_T-16-32-37_0271.jpg

IDENTIFIER: J. Reed (HBOI) *

Agaricia agaricites with disease; lesion progression 50%.

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Disease- unid.



201908181_T-08-52-26_0007.jpg

IDENTIFIER: J. Reed (HBOI) *

Agaricia sp. plate with disease, 50% dead.

DEPTH:

67 m

LOCATION:

Florida, Gulf of Mexico, Pulley Ridge HAPC, Mesophotic Reef, Main Ridge South, Block #18, Station FK-12, ROV 19-11, UNCW 783

Disease- unid.



201908142_T-14-44-31_0111b.jpg

IDENTIFIER: J. Reed (HBOI) *

Diseased - patchy paling.

DEPTH:

32 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Disease- unid.



201908141_T-11-33-41_0232b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Mound coral, brown; *Agaricia agaricites*, partially bleached or start of disease progression.

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Disease- unid.



201908142_T-16-35-08_0275a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *
white; *Agaricia agaricites*, partially paling.

DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Disease- unid.



201908142_T-16-32-48_0272b.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *
Montastraea cavernosa, partially bleached.

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Disease- unid.



201908142_T-16-32-37_0271a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

Agaricia agaricites, diseased, 60% recently dead.

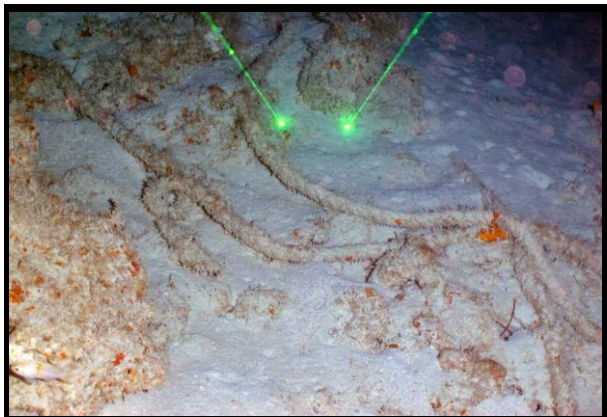
DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Anchor line



201908173_T-16-58-43_0035.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

92 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Fish line/gear



201908152_T-14-41-59_0002.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French
Reef, Mesophotic Reef, FKNMS,
Station FK-06, ROV 19-05,
UNCW 777

Fish line/gear



201908152_T-14-41-53_0001.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Trap



201908152_T-15-14-04_0091.jpg

IDENTIFIER: J. Reed (HBOI) *

ghost lobster pot.

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Trap



201908152_T-15-14-35_0004.jpg

IDENTIFIER: J. Reed (HBOI) *
ghost lobster pot.

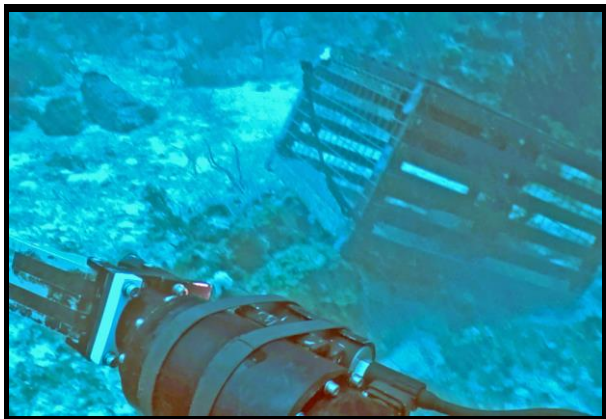
DEPTH:

44 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Trap



201908142_T-17-54-13_0006.jpg

IDENTIFIER: J. Reed (HBOI) *
ROV snagged on line of ghost lobster pot.

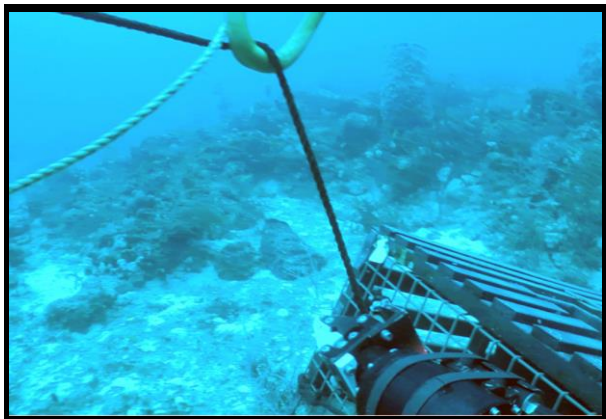
DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Trap



201908142_T-17-54-02_0005.jpg

IDENTIFIER: J. Reed (HBOI) *

ROV snagged on line of ghost lobster pot.

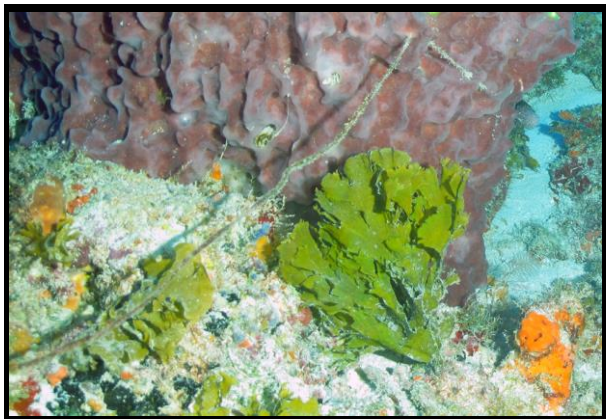
DEPTH:

33 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Fishing line



201908141_T-11-33-41_0232.jpg

IDENTIFIER: J. Reed (HBOI) *

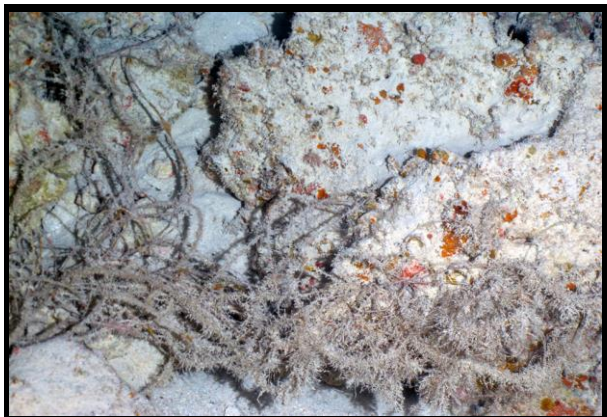
DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Fishing line



201908173_T-17-28-24_0085.jpg

IDENTIFIER: J. Reed (HBOI) *

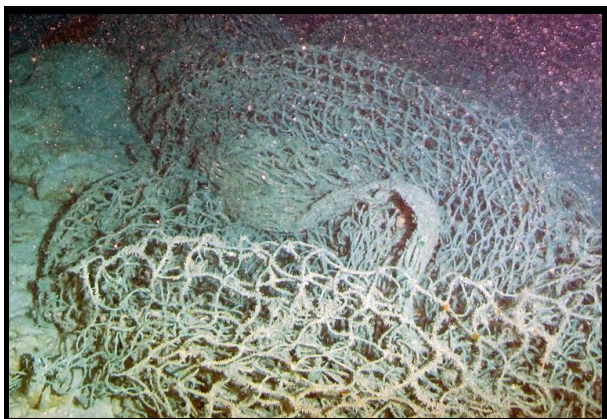
DEPTH:

94 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Trawl net



201908173_T-17-48-14_0113a.jpg

IDENTIFIER: J. Reed; S. Farrington (HBOI) *

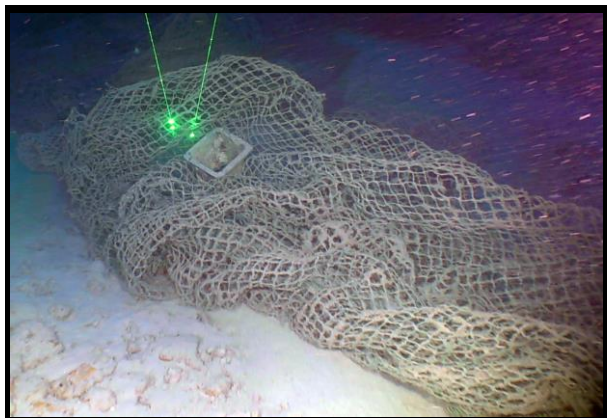
DEPTH:

91 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Trawl net



201908173_T-17-47-22_0002.jpg

IDENTIFIER: J. Reed (HBOI) *
ghost trawl net.

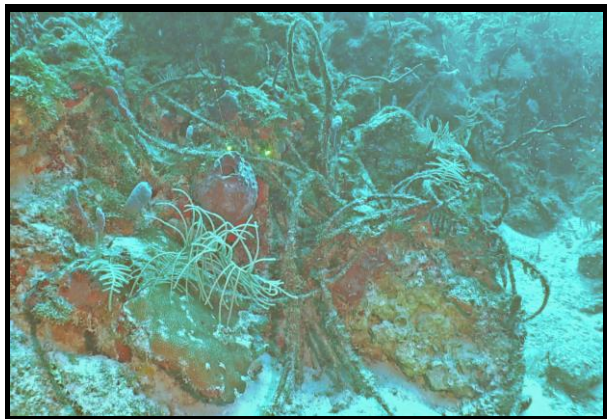
DEPTH:

92 m

LOCATION:

Florida, SW of Marquesas,
Deepwater Warsaw Sinkhole,
Outside FKNMS, Station FK-10,
ROV 19-10, UNCW 782

Line from lobster/crab pot



201908142_T-15-02-33_0001.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

34 m

LOCATION:

Florida, Key Largo, NE of The
Elbow Reef, Mini-Mound Reef,
FKNMS, Station FK-03, ROV 19-
03, UNCW 775

Line from lobster/crab pot



201908142_T-17-24-55_0004.jpg

IDENTIFIER: J. Reed (HBOI) *

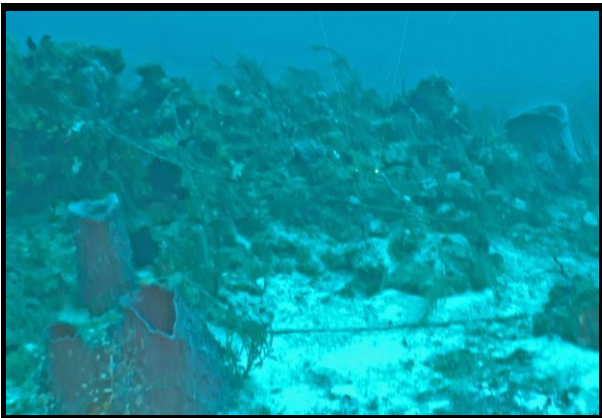
DEPTH:

36 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Line from lobster/crab pot



201908142_T-17-24-49_0003.jpg

IDENTIFIER: J. Reed (HBOI) *

DEPTH:

36 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mini-Mound Reef, FKNMS, Station FK-03, ROV 19-03, UNCW 775

Human impact



201908141_T-09-41-50_0003.jpg

IDENTIFIER: J. Reed (HBOI) *
damaged by line or fishing gear.

DEPTH:

46 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Human impact



201908141_T-09-56-52_0004.jpg

IDENTIFIER: J. Reed (HBOI) *

Xestospongia muta with top cut off possibly from lobster pot line or fishing gear.

DEPTH:

43 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Human impact



201908141_T-10-00-50_0005.jpg

IDENTIFIER: J. Reed (HBOI) *

Xestospongia muta with top cut off possibly from lobster pot line or fishing gear.

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Human impact



201908141_T-10-01-13_0006.jpg

IDENTIFIER: J. Reed (HBOI) *

damaged by line or fishing gear.

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Human impact



201908141_T-10-45-48_0010.jpg

IDENTIFIER: J. Reed (HBOI) *

Xestospongia muta with top cut off possibly from lobster pot line or fishing gear.

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774

Human impact



201908152_T-16-09-15_0007.jpg

IDENTIFIER: J. Reed (HBOI) *

damaged by line or fishing gear.

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Human impact



201908152_T-16-09-05_0005.jpg

IDENTIFIER: J. Reed (HBOI) *

Xestospongia muta with top cut off possibly from lobster pot line or fishing gear.

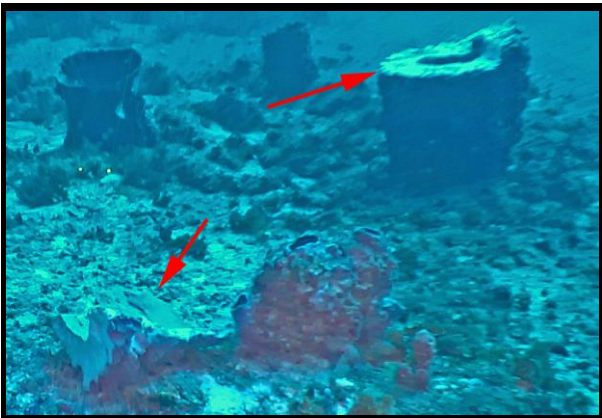
DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Human impact



201908152_T-16-09-05_0006.jpg

IDENTIFIER: J. Reed (HBOI) *

damaged by line or fishing gear.

DEPTH:

43 m

LOCATION:

Florida, Key Largo, E of French Reef, Mesophotic Reef, FKNMS, Station FK-06, ROV 19-05, UNCW 777

Human impact



201908141_T-10-42-52_0009.jpg

IDENTIFIER: J. Reed (HBOI) *

Xestospongia muta with top cut off possibly from lobster pot line or fishing gear.

DEPTH:

44 m

LOCATION:

Florida, Key Largo, NE of The Elbow Reef, Mesophotic Reef, FKNMS, Station FK-02, ROV 19-02, UNCW 774