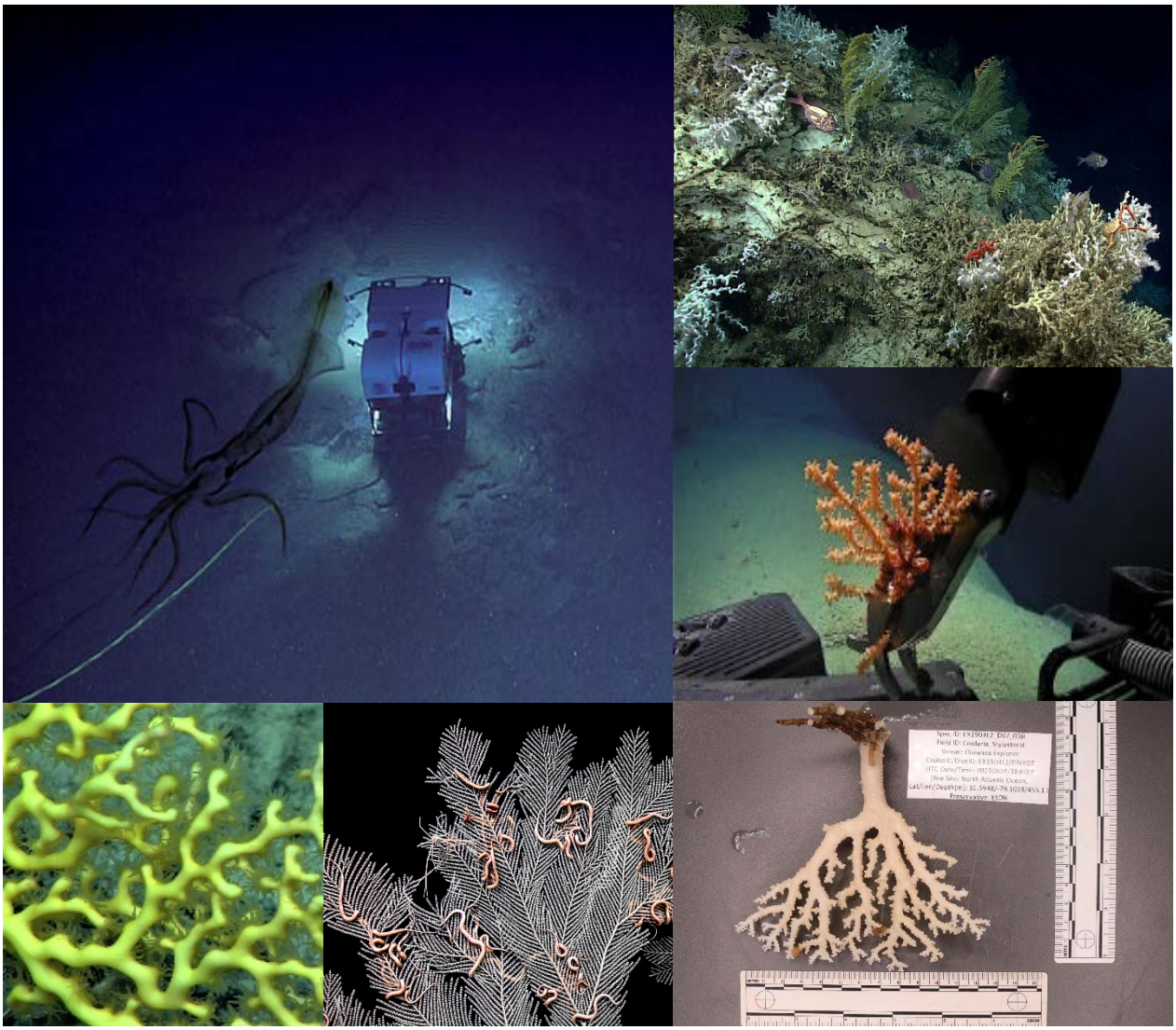
Photographic catalog of deep-sea corals collected from the US West Atlantic margin by NOAA ship *Okeanos Explorer* in years 2017- 2019



Enrique J. Salgado and Peter J. Etnoyer

NOAA Technical Memorandum
NOS NCCOS XXX
January 2020

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Photographic catalog of deep-sea corals collected from the US West Atlantic margin by NOAA ship *Okeanos Explorer* in years 2017- 2019

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NOAA Technical Memorandum NOS NCCOS XXX

January 2020

United States Department of Commerce	National Oceanic and Atmospheric Administration	National Ocean Service
Wilbur Ross	**Benjamin Friedman**	**Nicole LeBoeuf**
Secretary of Commerce	**Deputy Under Secretary for Operations and Acting Administrator**	**Acting Assistant Administrator**

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Executive summary

This photo-identification collection is intended to provide a visual reference to commonly observed deep-sea corals in the Southeast United States, Gulf of Mexico, and U.S. Caribbean, as a consensus aid for taxonomic identification of these organisms. This document also aims to provide an effectual representation of the diversity of coral fauna encountered in the deep-sea of this greater U.S. Southeast region (defined here as > 200 m deep) by the NOAA Office of Ocean Exploration and Research (OER), using remotely operated vehicle (ROV) *Deep Discoverer* in years 2017-2019.

This volume includes 117 entries consisting of photographic samples of conspicuous deep-sea coral taxa of interest to managers and taxonomists. Of these documented samples, 77 are associated with a physical specimen cataloged by the Smithsonian National Museum of Natural History with their corresponding museum reference numbers (USNM numbers), provided to allow future taxonomic reference and revisions. Some coral taxa were not physically sampled, but they were documented in images. Each of these taxa are represented by the best available images. Uncollected samples are good candidates for future collections. References are provided to known ranges, locations and environmental data, as well as links to other databases to establish a precedent and maintain reciprocity to future observations.

With this release, NOAA scientists attempt to garner the expertise of taxonomic experts to photographically correlate collected specimens to *in situ* observations, where needed, and therefore enhance the scientific value of deep-sea exploration. We also wish to illustrate the remarkable diversity of deep-corals in the Southeast U. S. margin, and to document potential new discoveries. The consistent identification and systematics of many of the taxa featured in this volume is essential for the valuation and protection of vulnerable marine ecosystems (VMEs). We hope to continue to update this collection as new observations, additional expertise, and data from new explorations becomes available.

Introduction

This photo-identification collection is intended to provide a visual reference to commonly observed deep-sea corals in the Southeast United States, Gulf of Mexico, and U.S. Caribbean, as a consensus aid for taxonomic identification of these organisms. This document also aims to provide an effectual representation of the diversity of coral fauna encountered in the deep-sea of this greater U.S. Southeast region (defined here as > 200 m deep) (Gage and Tyler 1991) by the NOAA Office of Ocean Exploration and Research (OER), using remotely operated vehicle (ROV) *Deep Discoverer* in years 2017-2019.

The southeastern U.S. regions comprise over a million square kilometers of open sea, and a complex array of geologic features that host many known and unknown fish and invertebrates. A large number of canyons, mounds, rocky ridges, and escarpment slopes were mapped and explored by OER using NOAA ship *Okeanos Explorer* (EX) between 2017 and 2019. ROV dives were conducted on many of these features. During these dives, thousands of deep-sea corals and sponges were observed in video surveys. Rare and cosmopolitan species were observed such as *Desmophyllum pertusum* (= *Lophelia pertusa*), which forms mounds and reefs throughout the North Atlantic (Reed *et al*. 2006, Roberts *et al*. 2003), and *Leiopathes glaberrima* which can live to be thousands of years old (Prouty *et al*. 2011). Dozens of tissue samples were collected during these dives, as voucher specimens. These were submitted to the Smithsonian National Museum of Natural History for authoritative identification.

Representative images of the octocorals, black corals, and scleractinian corals observed and sampled by the ROV *Deep Discoverer* during these expeditions are illustrated herein. This edition contains 117 samples of deep-sea coral observations, and their locations are shown in Figures 1-3 for each study region. Physical samples are cataloged by the Smithsonian National Museum of Natural History with their corresponding museum numbers (USNM numbers), which are provided in this document to allow for future taxonomic reference and revisions (Cairns and Hourigan 2017). Some coral taxa were not physically sampled, but they were documented in detail. Each of these taxa are photographically represented by the best available images of novel observations of poorly known morphological types, as well as historically documented taxa (Hourigan *et al*. 2017). Uncollected samples are potentially identified as good candidates for future collections. Records are referenced to known ranges, location and environmental data, as well as other databases to establish a precedent and maintain reciprocity to future observations.

With this release, NCCOS scientists attempt to garner the expertise of taxonomic experts to photographically correlate collected specimens to *in situ* observations, where needed, and therefore enhance the scientific value of deep-sea exploration. We also wish to illustrate the remarkable diversity of deep-corals in the Southeast U. S. margin, and to document potential new discoveries. The consistent identification and systematics of many of the taxa featured in this edition is essential for the valuation and protection of vulnerable marine ecosystems (VMEs) (Ardron *et al*. 2014). We hope to continue to update this collection as new observations, additional expertise, and data from new explorations becomes available.

Materials and methods

Still images and metadata compiled in this document were obtained through the OER data portal found at https://exdata.tgfoe.org. Six cruises through the greater Southeast U.S. (EX1711, EX1803, EX1806, EX1811, EX1903, and EX1907), spanning three years of fieldwork, are included in this document as a supplement to the Deep-Sea Coral Research and Technology (DSCRTP) program objectives. The locations of collected samples are given in Figure 1 for the U.S. Caribbean region; Figure 2 for the Gulf of Mexico region; and Figure 3 for the U.S. Southeast region. A relational database of specimens collected during EX expeditions was produced from using data extracted from the OER data portal. Samples are also referenced to the DSCRTP National Database of Deep-Sea Corals and Sponges via their *Catalog Number*, when applicable.

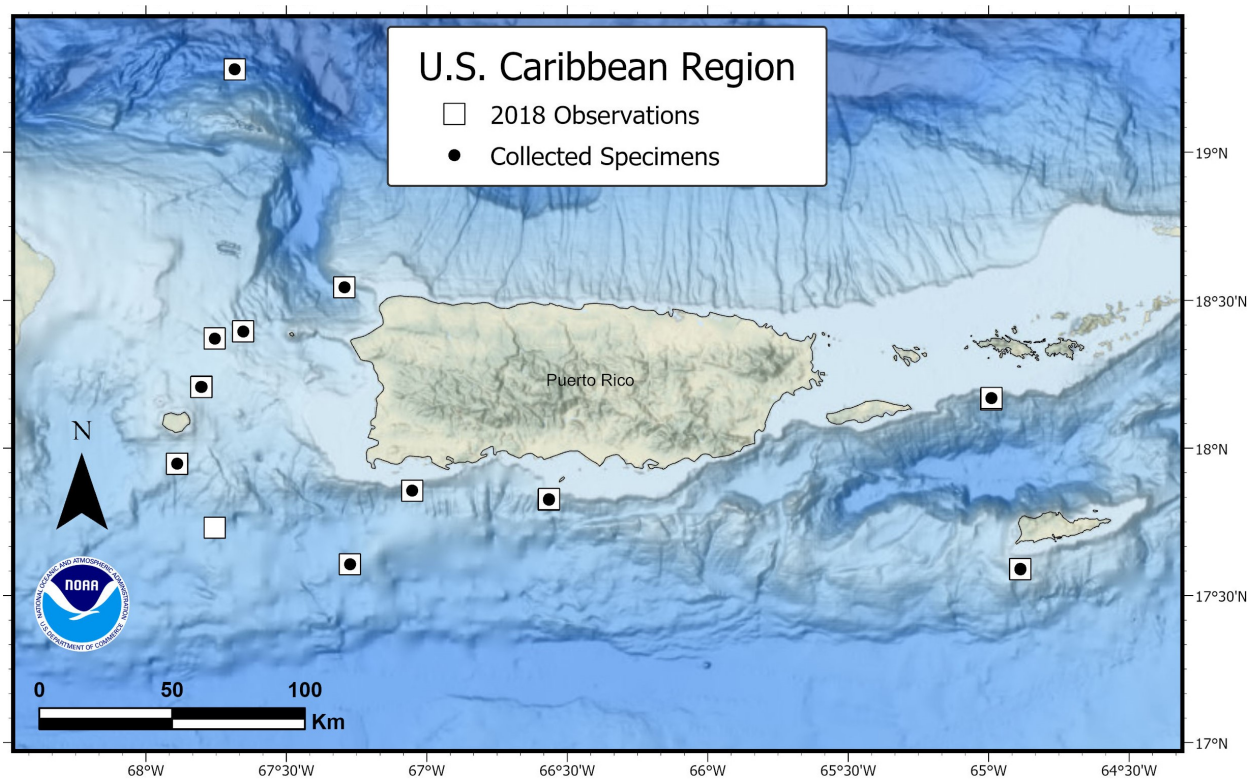


Figure 1. Map of U.S. Caribbean region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent observations, and black dots indicate where physical specimens were collected.

The data were queried from these cruises for taxa of interest within the region. All relevant metadata and location information for sampled specimens weres compiled. The best available *in situ* and *ex situ* images were identified for each taxon or sample. Highlight images were collected and compiled in a digital folder, and organized by taxonomic order and family. Multiple coral morphologies were recognized as separate taxa in this collection, and similar morphologies collected in different locations are also listed as separate samples.

Several sampled specimens have been analyzed by taxonomist to *species* level, however; this level of identity of corals is difficult to determine from images alone, and often unreliable, therefore a family or genus level identification is assigned to establish some useful taxonomic precision and reliability. The database structure allows for the identification of entries outside of their expected geographic or bathymetric ranges.

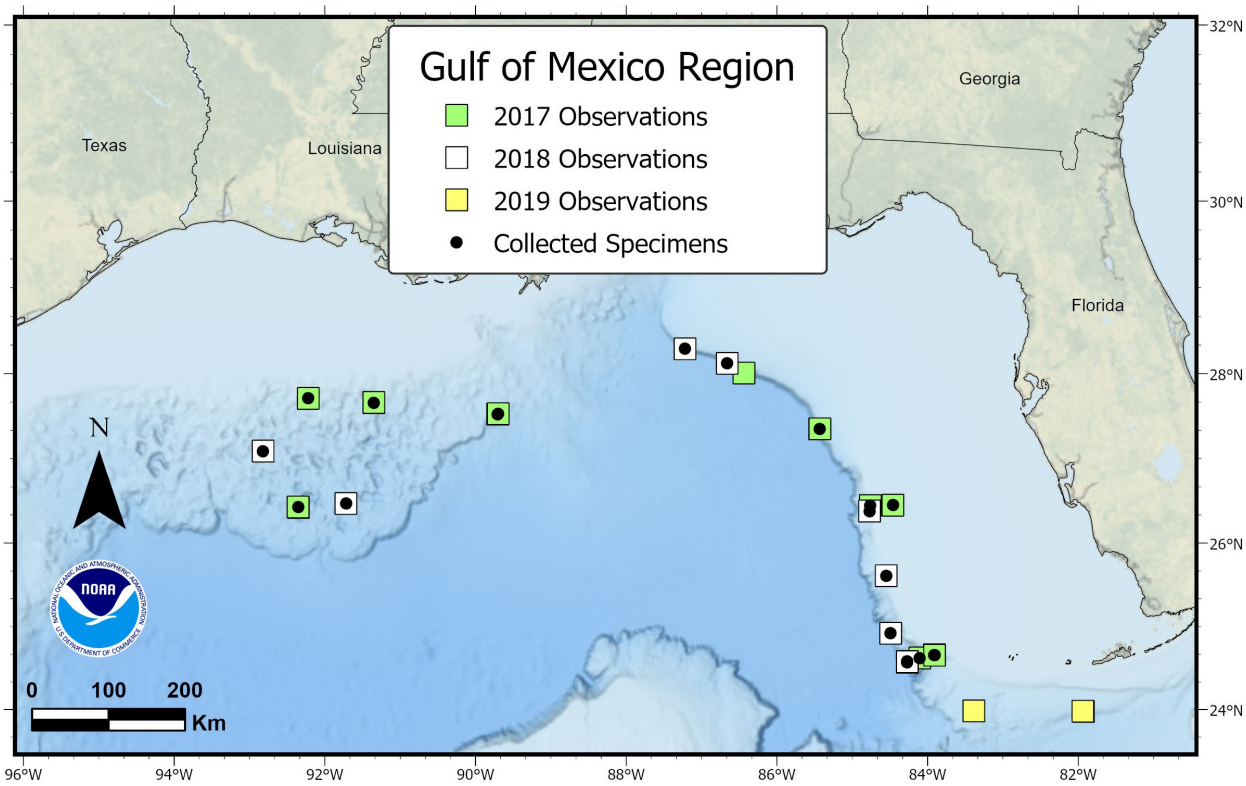


Figure 2. Map of Gulf of Mexico region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent photographic observations, and black dots indicate where physical specimens were collected. Fieldwork in the Gulf occurred in 2017 and 2018, with two dives occurring in the southwest Florida slope in 2019.

Of the six *Okeanos* (EX) expeditions conducted over three years, 2 were primarily focused in the Southeast U.S. Atlantic; 2 were conducted in the Gulf of Mexico; followed by the U.S. Caribbean, where one expedition was conducted in the time frame of this study.

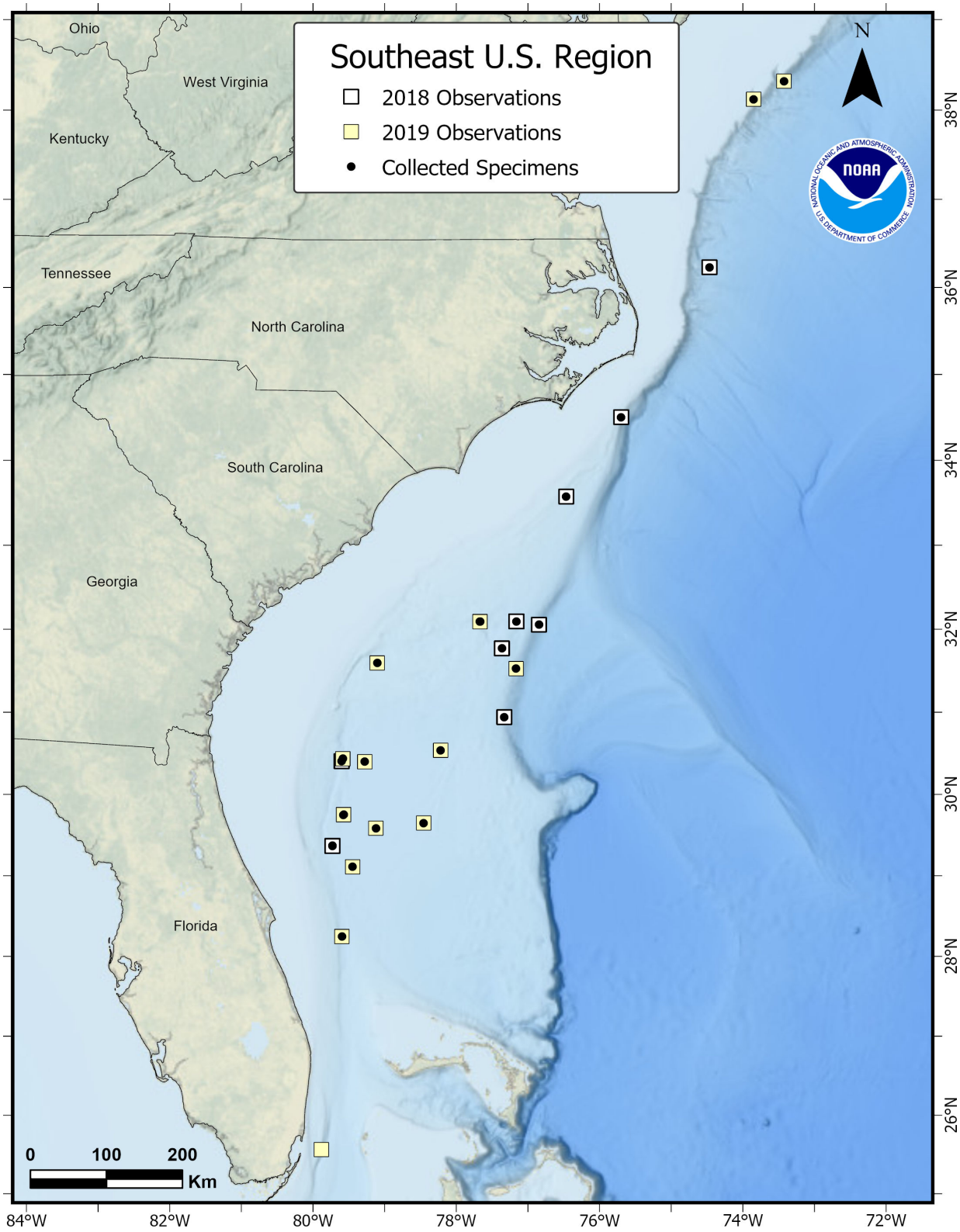


Figure 3. Map of Southeast U.S. region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent photographic observations, and blac dots indicate where physical specimens were collected. Fieldwork in the Gulf occurred in 2018 and 2019.

The certitude of taxonomic identification is indicated in the *ID Verification Status* field. Samples which have not yet been taxonomically analyzed, or have been identified from photos only, are indicated as *unconfirmed*. Figure 4 shows the MS Access data editing form, which provides the structure, repository, and 'engine' for this report.

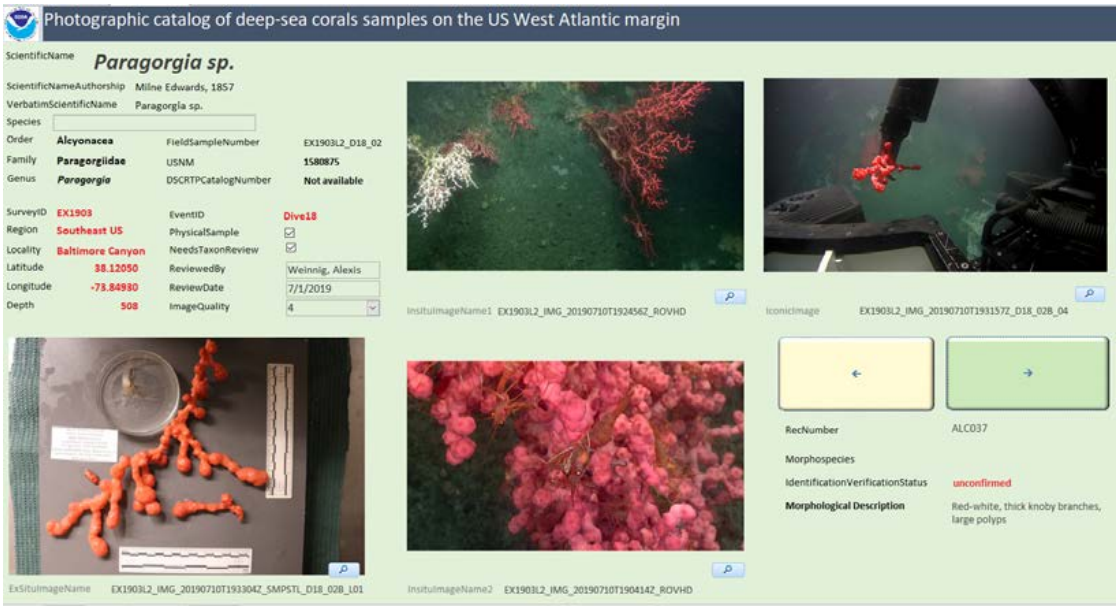


Figure 4. MS Access engine screenshot showing data editing form used to update taxonomic collection with new information about collected samples as it becomes available.

As results from new research become available, resolved taxonomic identifications and updates of this document will be practicable. We have limited this volume to large and conspicuous observations associated with deep-sea coral communities deeper than 200 meters in order to narrow the focus of study areas and ecologically relevant depth zones (Cairns 2007, Buhl-Mortensen *et al*. 2010).

Results

NOAA Ship *Okeanos Explorer* conducted six ROV cruises in the Southeast Deep Coral Initiative (SEDCI) study area between 2017 and 2019. Most of the samples (62) were obtained in the Southeast U.S. Atlantic, followed by 31 in the Gulf of Mexico, and 24 in the U.S. Caribbean region. These cruises yielded samples from several phyla, including many Cnidarians, such as anemones (Actinaria), cup corals (Scleractinia), sea pens (Pennatulacea), as well as habitat forming corals (Roberts *et al*, 2009). These documented taxa yielded 117 entries in this volume. Figure 5 shows the proportion of these entries among the four Cnidarian orders. Octocorals in Order Alcyonacea were the most commonly sampled (68% of samples), black corals in Order Antipatharia were second (20% of samples). Table 1 shows the proportion of samples, which also include a physical specimen by collection year.

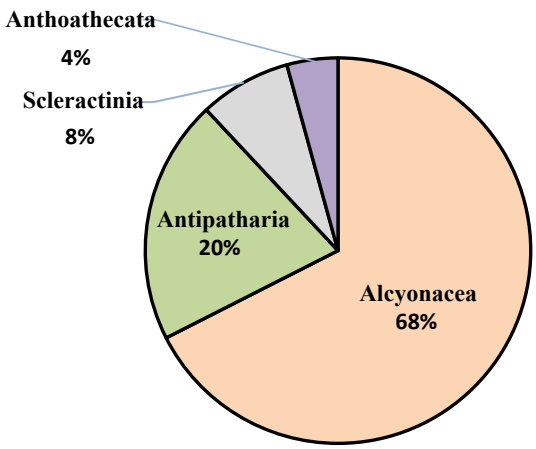


Figure 5. Number and proportion of samples obtained in the U.S. West Atlantic margin by NOAA Ship *Okeanos Explorer* included in this volume. A total of 117 samples are included in this catalog.

Table 1. A table showing samples referenced in this catalog by calendar year, as video observations (photo sample) and/or specimens (tissue samples).

	Alcyonacea		Antipatharia		Scleractinia		Anthoathecata	
Calendar Year	**Photo Sample**	**Photo & Specimen**	**Photo Sample**	**Photo & Specimen**	**Photo Sample**	**Photo & Specimen**	**Photo Sample**	**Photo & Specimen**
2017	2	10	2	2	0	0	0	1
2018	18	31	8	9	4	4	1	2
2019	3	15	2	1	0	1	0	1

Samples from these four orders also yielded several families of deep-sea corals. Across all years, order Alcyonacea yielded 79 photographic samples in 10 families, with 56 collected specimens, followed by order Antipatharia with 24 photographic samples in five families, and 12 collected specimens. Branching Scleractinians produced nine samples in four families, with five collected specimens, while Anthoathecata returned only five photographic samples in one family (Stylasteridae), and four specimens. Figure 6 shows the proportion of families in each order of deep-sea corals for all samples included in this catalog.

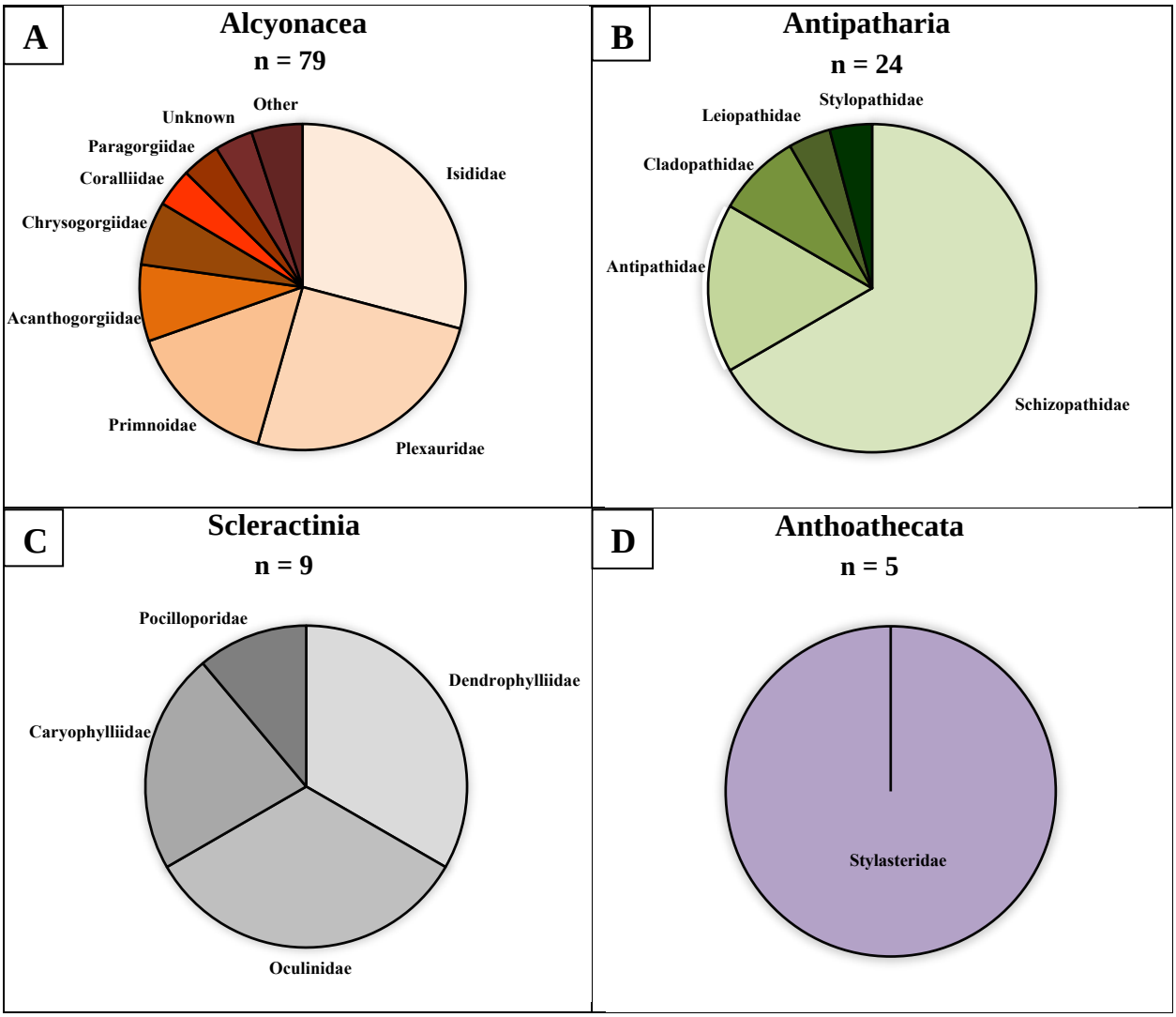


Figure 6. Number and proportion of samples collected from four orders of deep-sea corals in the U.S. West Atlantic margin by NOAA Ship *Okeanos Explorer* included in this guide. Octocorals in the order Alcyonacea (A) comprised 79 samples; black corals in the order Antipatharia (B) include 24 samples; nine branching scleractinians (C); and five hydrocorals in the order Anthoathecata (D).

Of all 117 samples curated for this volume, 23 have been identified to species level, 72 have been identified to genus level, and the 19 have been identified to family level (Table 2). Figure 7 shows percentage of identification levels based on currently known taxonomic analyses. Three samples could not be identified to family level and have been classified as order Alcyonacea.

Table 2. Taxonomic resolution level of 117 samples included in this catalog.

Identification Level	Number of Samples
Species	23
Genus	72
Family	19
Order	3
Total	**117**

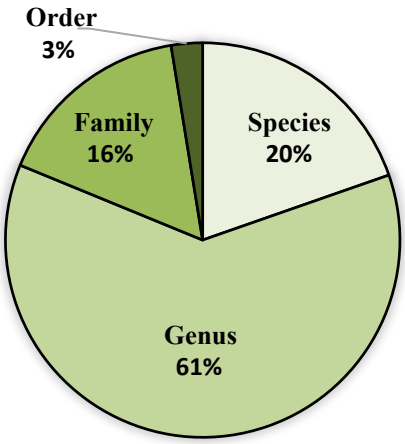


Figure 7. Level of taxonomic resolution as percentage of total samples collected and included in this volume (n = 117).

The current catalog represents 47 distinct genera of deep-sea corals in 21 families. Several samples currently identified to family level are listed as 'unknown' for *genus* until further data becomes available. Three octocoral samples are currently identified only to order level, but only one of these was collected in 2018, pending taxonomic analysis. Table 3 shows a list of taxonomic orders and families documented.

Table 3. List of taxonomic orders and families documented in this guide. Four orders and 21 famlies, plus three samples in which family is unknown.

Order	Family	Number of Samples
Alcyonacea	Isididae	23
	Plexauridae	20
	Primnoidae	12
	Acanthogorgiidae	6
	Chrysogorgiidae	5
	Coralliidae	3
	Paragorgiidae	3
	Anthothelidae	1
	Clavulariidae	1
	Ellisellidae	1
	Gorgoniidae	1
	Unknown	3
Anthoathecata	Stylasteridae	5
Antipatharia	Schizopathidae	16
	Antipathidae	4
	Cladopathidae	2
	Leiopathidae	1
	Stylopathidae	1
Scleractinia	Dendrophylliidae	3
	Oculinidae	3
	Caryophylliidae	2
	Pocilloporidae	1

From the total number of samples identified at any level, 23 are potential extensions from their currently documented range. 70 of the current entries have been catalogued in NOAA's National Database of Deep-Sea Corals and Sponges (Cairns and Hourigan 2017). Several octocoral taxa in the families Plexauridae, and Isididae were not previously reported or collected in U. S. waters, based upon the most recent census (Hourigan, Etnoyer, and Cairns 2017).

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanthogorgia* sp.** ALC002

Scientific Name Authorship **Gray, 1857**

Identified by Salgado, Enrique

EX1806_IMG_20180622T155155Z_ROVHD.jpg

EX1806_IMG_20180622T155307Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09341
Longitude	-77.16120
Depth (m)	941

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969452

Description Light yellow, dense planar branching with dark axis, large thin elongated polyps

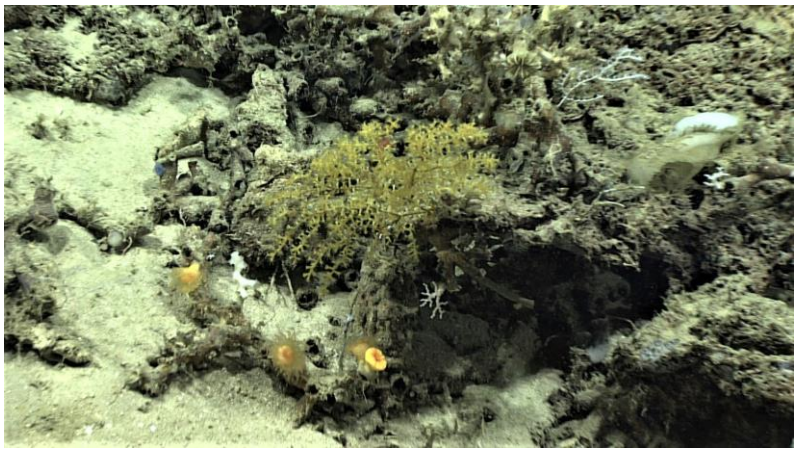
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanthogorgia* sp.** ALC004

Scientific Name Authorship **Gray, 1857**

Identified by Wagner, Daniel



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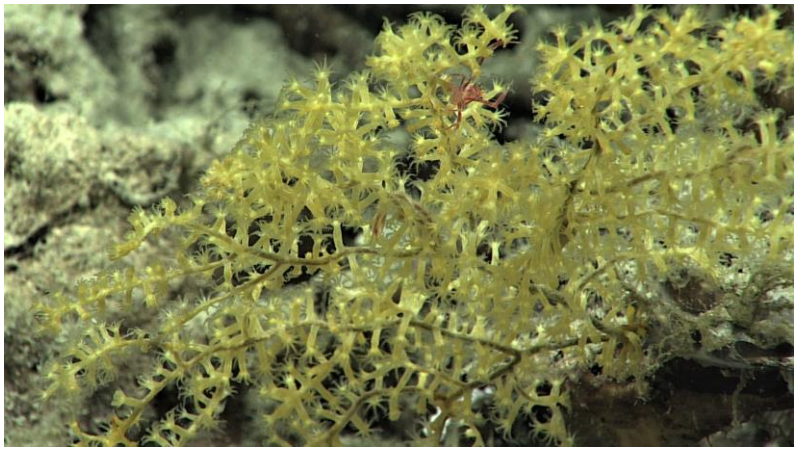


EX1803_IMG_20180428T151024Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*

ID Verification Status **unconfirmed**

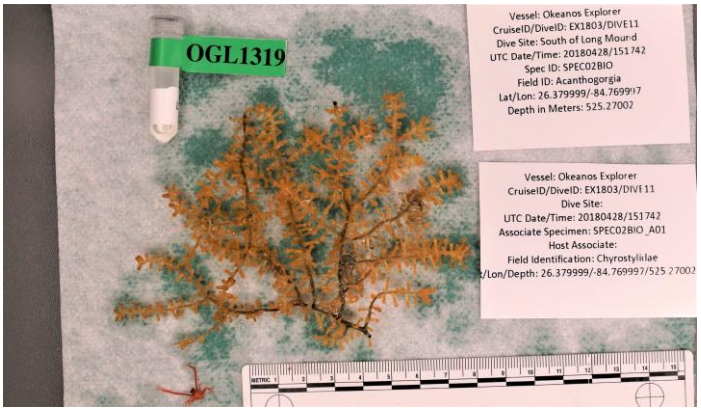
Metadata

SurveyID	EX1803
EventID	Dive11
Region	Gulf of Mexico
Locality	South of Long Mound
Latitude	26.37999
Longitude	-84.76999
Depth (m)	525

Sample Information

Field Sample Number	D11_SPEC02_BIO
USNM#	1507298
DSCRTP Catalog Number	971112

Description Yellow, dense planar branching with dark axis, large thin elongated polyps



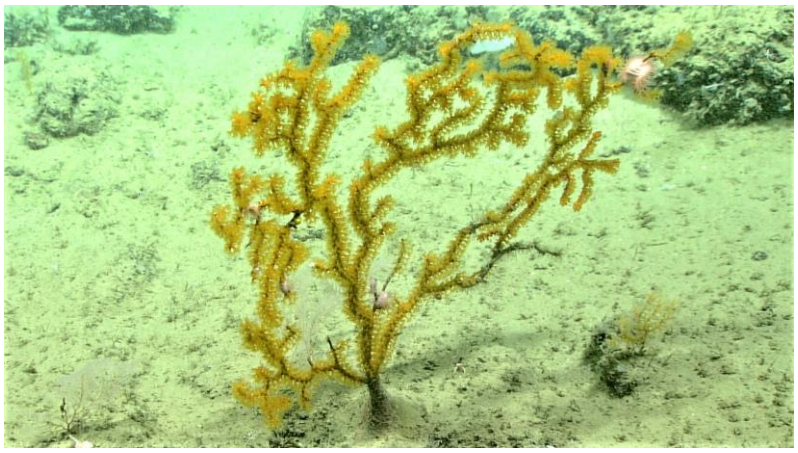
EX1803_IMG_20180428T151742Z_SMPSTL_D2_DIVE11_SPEC02BIO_A01_L01

Order Alcyonacea (sea fans and soft corals)

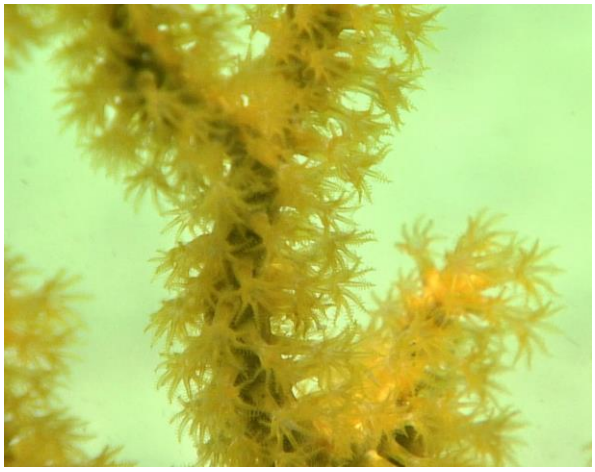
Scientific Name ***Acanthogorgia* sp.** ALC005

Scientific Name Authorship **Gray, 1857**

Identified by Morrison, Cheryl



SE1058a_Acanthogorgia_914.jpg



SE1058b_Acanthogorgia_914.jpg

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09339
Longitude	-77.16134
Depth (m)	914

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969476

Description Orange-yellow, dense planar branching with dark axis, densely packed large, elongated polyps

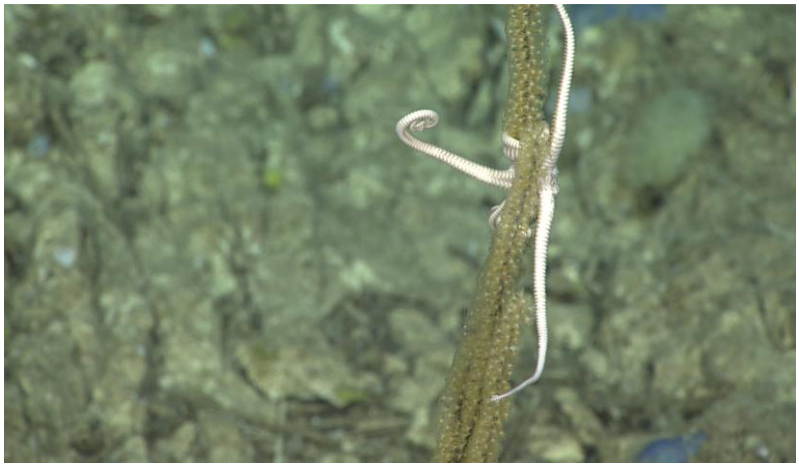
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanthogorgia* sp.** ALC066

Scientific Name Authorship **Gray, 1857**

Identified by Cordeiro, Raif



EX1811_IMG_20181113T170032Z_ROVHD

EX1811_IMG_20181113T165957Z_ROVHD

EX1811_IMG_20181113T164856Z_ROVHD

EX1811_IMG_20181113T170547Z_SMPSTL_D2_DIVE13_SPEC03BIO_L01

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive13
Region	US Caribbean
Locality	Mona Escarpment
Latitude	18.20700
Longitude	-67.80280
Depth (m)	412

Sample Information

Field Sample Number	EX1811_D13_03B
USNM#	1550649
DSCRTP Catalog Number	Not available

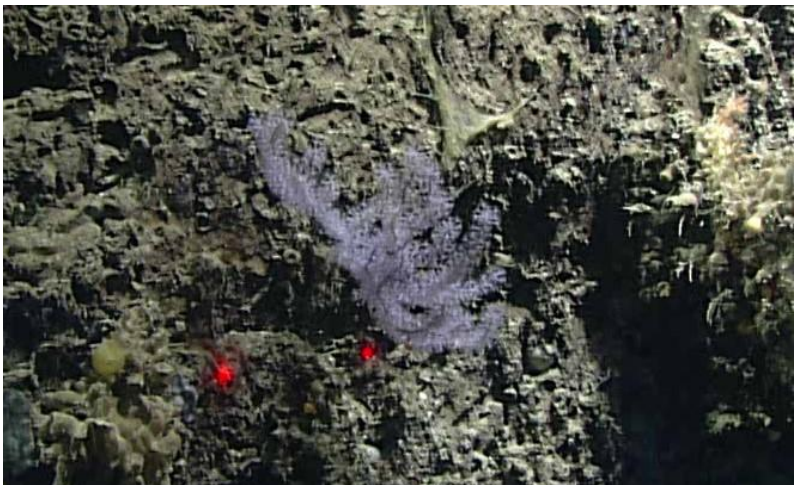
Description Yellow-brown, simple thick branching, small densely packed polyps

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanthogorgia* sp.** ALC001

Scientific Name Authorship **Gray, 1857**

Identified by Amon, Diva



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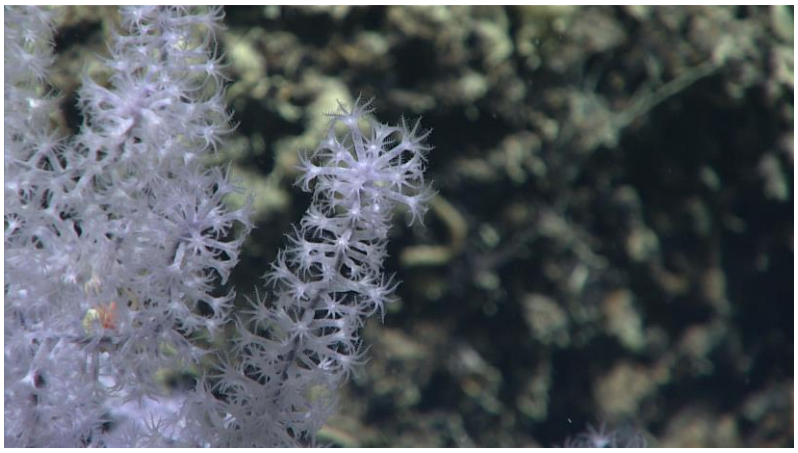


EX1711_IMG_20171130T200536Z_ROVHDSPEC04BIO.jpg

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*

ID Verification Status **unconfirmed**

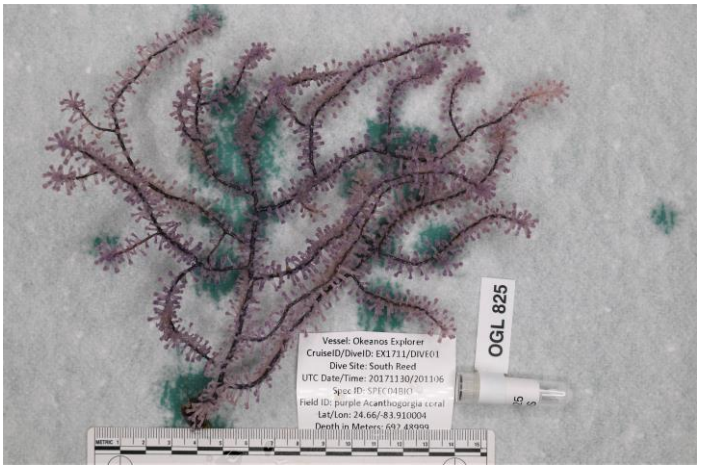
Metadata

SurveyID	EX1711
EventID	Dive01
Region	Gulf of Mexico
Locality	South Reed
Latitude	24.66090
Longitude	-83.91010
Depth (m)	692

Sample Information

Field Sample Number	D01_SPEC04_BIO
USNM#	1482945
DSCRTP Catalog Number	949004

Description Light purple, dense planar branching with dark axis, large thin elongated polyps



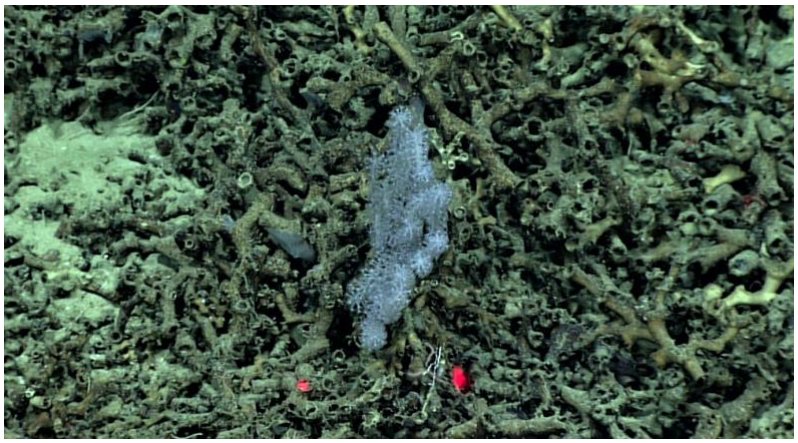
EX1711_IMG_20171130T201106Z_SMPSTL_D2_DIVE01_SPEC04BIO_L03.jpg

Order Alcyonacea (sea fans and soft corals)

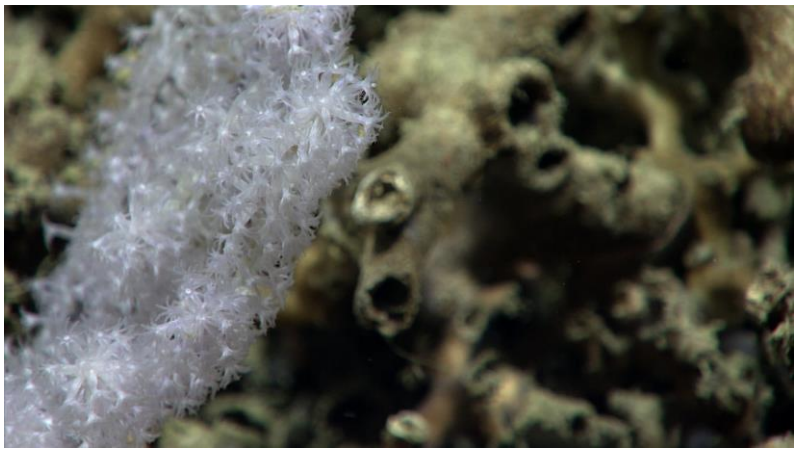
Scientific Name ***Acanthogorgia* sp.** ALC003

Scientific Name Authorship **Gray, 1857**

Identified by Wagner, Daniel



EX1803_IMG_20180428T160246Z_ROVHD



EX1803_IMG_20180428T160521Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Acanthogorgiidae
Genus	*Acanthogorgia*

ID Verification Status **unconfirmed**

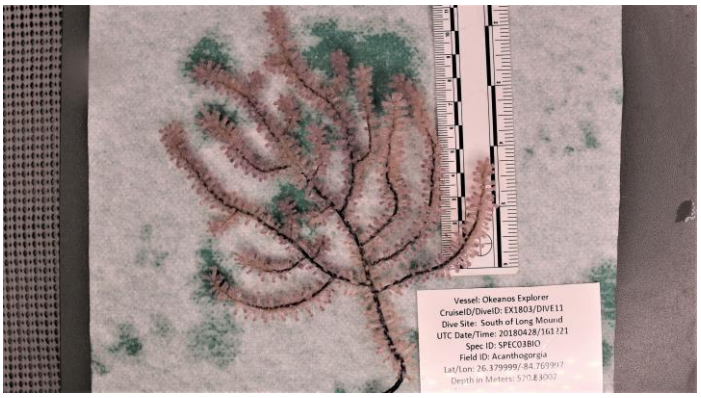
Metadata

SurveyID	EX1803
EventID	Dive11
Region	Gulf of Mexico
Locality	South of Long Mound
Latitude	26.37990
Longitude	-84.76999
Depth (m)	521

Sample Information

Field Sample Number	D11_SPEC03_BIO
USNM#	1507301
DSCRTP Catalog Number	970871

Description Light purple, dense planar branching with dark axis, large thin elongated polyps



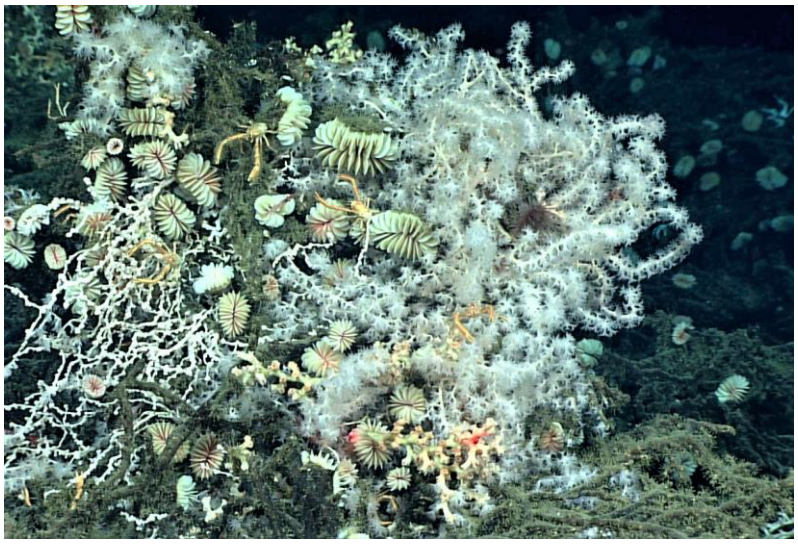
EX1803_IMG_20180428T161221Z_SMPSTL_D2_DIVE11_SPEC03BIO_L03.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Anthothela* sp.** ALC006

Scientific Name Authorship **Verrill, 1879**

Identified by Amon, Diva



EX1711_IMG_20171211T205008Z_ROVHD.jpg

EX1711_IMG_20171211T204912Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Anthothelidae
Genus	*Anthothela*
ID Verification Status	**unconfirmed**

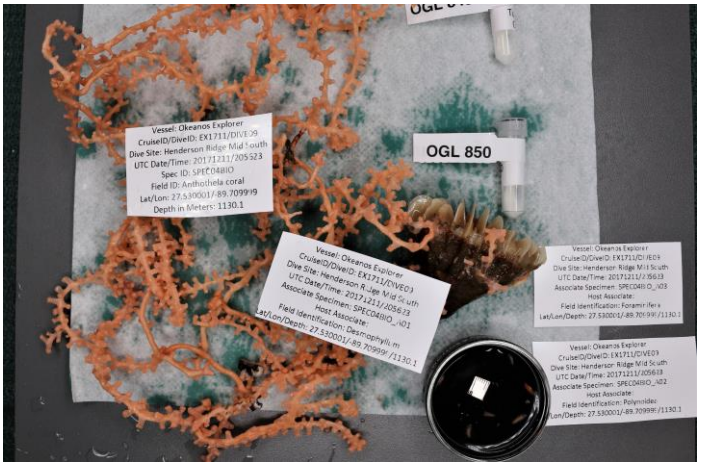
Metadata

SurveyID	EX1711
EventID	Dive09
Region	Gulf of Mexico
Locality	Henderson Ridge Mid-South
Latitude	27.52570
Longitude	-89.70690
Depth (m)	1130

Sample Information

Field Sample Number	D09_SPEC04_BIO
USNM#	1483015
DSCRTP Catalog Number	950002

Description White, meandering creeping branches, dense polyps

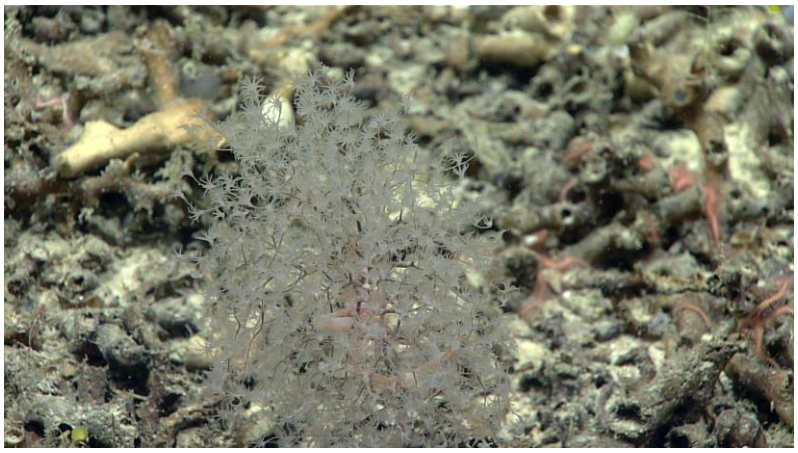


EX1711_IMG_20171211T205623Z_SMPSTL_D2_DIVE09_SPEC04BIO_L02.jpg

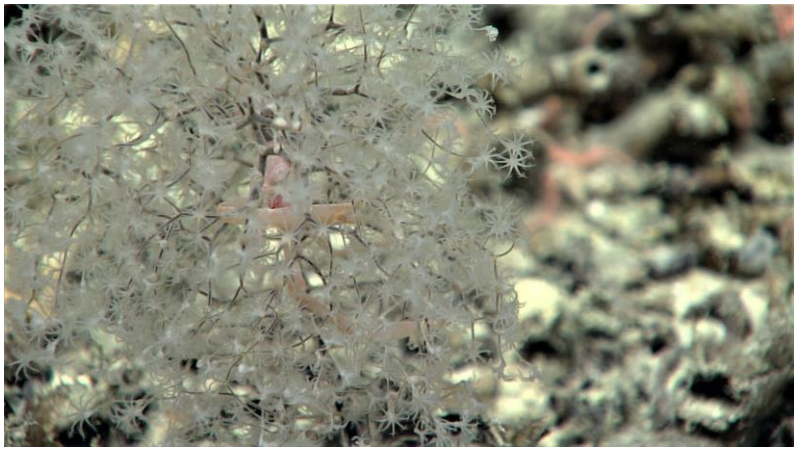
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Chrysogorgia* sp.** ALC008

Scientific Name Authorship **Duchassaing & Michelotti, 1864** Identified by Weinnig, Alexis



EX1903L2_IMG_20190625T172425Z_ROVHD



EX1903L2_IMG_20190625T172524Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Chrysogorgiidae
Genus	*Chrysogorgia*
ID Verification Status	**unconfirmed**

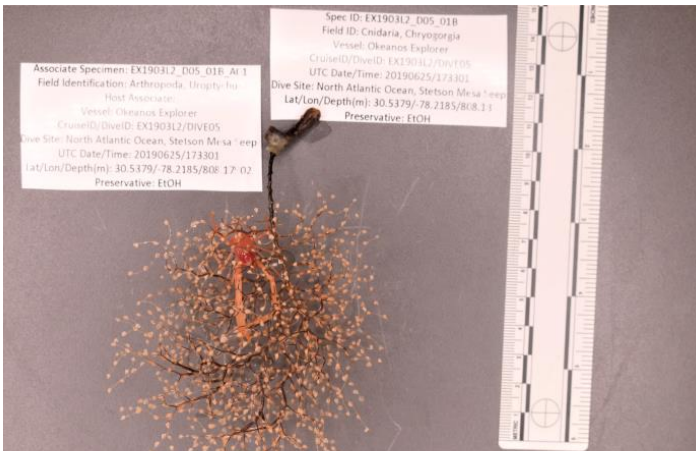
Metadata

SurveyID	EX1903
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa Seep
Latitude	30.53790
Longitude	-78.21850
Depth (m)	808

Sample Information

Field Sample Number	EX1903L2_D05_01B
USNM#	1580794
DSCRTP Catalog Number	Not available

Description Grey, thin repeatedly bifurcating branches, serial polyps with thin coenenchyme

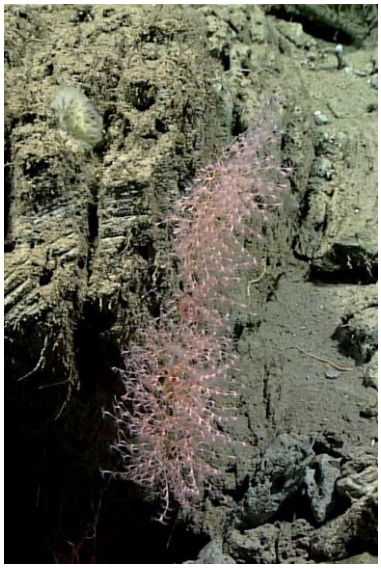


EX1903L2_IMG_20190625T173301Z_SMPSTL_D05_01B_A01_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Chrysogorgia* sp.** ALC009

Scientific Name Authorship **Duchassaing & Michelotti, 1864** Identified by France, Scott



EX1806_IMG_20180701T150136Z_ROVHD.jpg

EX1806_IMG_20180701T150109Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Chrysogorgiidae
Genus	*Chrysogorgia*
ID Verification Status	**confirmed by taxonomic analysis**

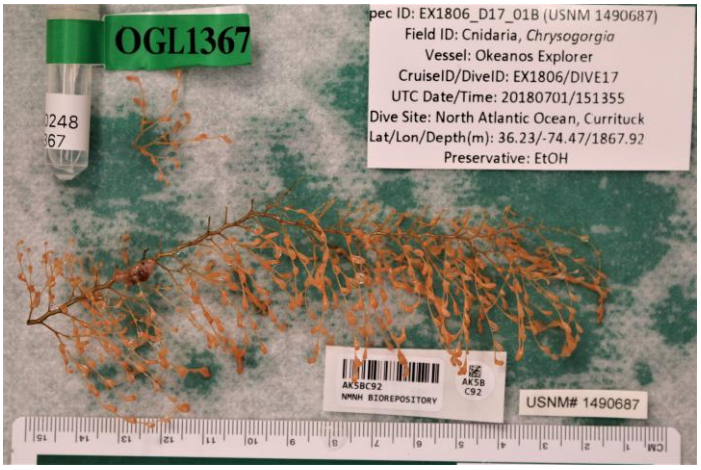
Metadata

SurveyID	EX1806
EventID	Dive17
Region	Southeast US
Locality	Corrituck
Latitude	36.22998
Longitude	-74.46546
Depth (m)	1868

Sample Information

Field Sample Number	D17_SPEC01_BIO
USNM#	1490687
DSCRTP Catalog Number	970071

Description Pink-orange, thin repeatedly bifurcating branches, serial polyps with thin coenenchyme



EX1806_IMG_20180701T151355Z_SMPSTL_D2_DIVE17_SPEC01BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Chrysogorgia* sp.** ALC007

Scientific Name Authorship **Duchassaing & Michelotti, 1864** Identified by Amon, Diva

EX1711_IMG_20171204T171220Z_ROVHD.jpg

EX1711_IMG_20171204T170916Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Chrysogorgiidae
Genus	*Chrysogorgia*

ID Verification Status **unconfirmed**

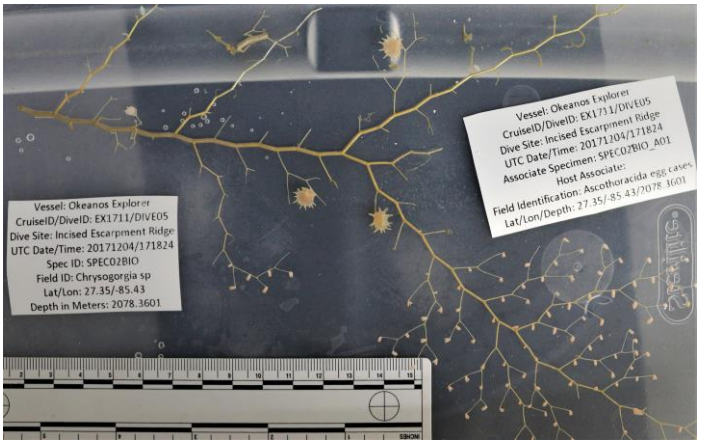
Metadata

SurveyID	EX1711
EventID	Dive05
Region	Gulf of Mexico
Locality	Incised Escarpment Ridge
Latitude	27.35250
Longitude	-85.43430
Depth (m)	2078

Sample Information

Field Sample Number	D05_SPEC02_BIO
USNM#	1482989
DSCRTP Catalog Number	949611

Description Yellow-white, thin repeatedly bifurcating branches, serial polyps with thin coenenchyme



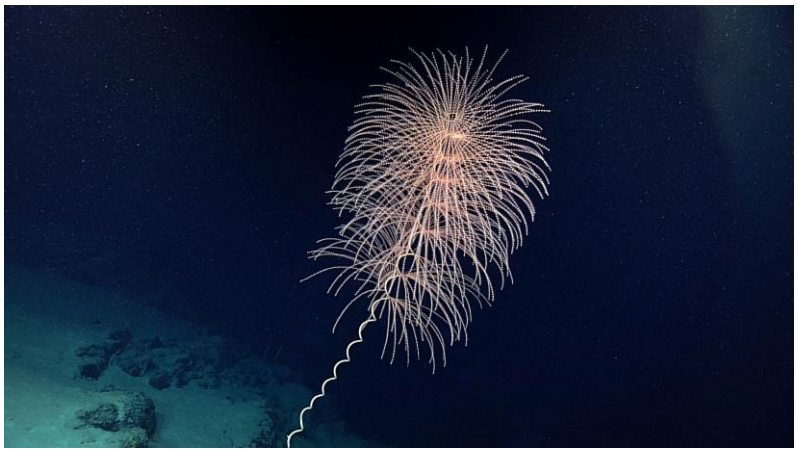
EX1711_IMG_20171204T171824Z_SMPSTL_D2_DIVE05_SPEC02BIO_L02.jpg

Order Alcyonacea (sea fans and soft corals)

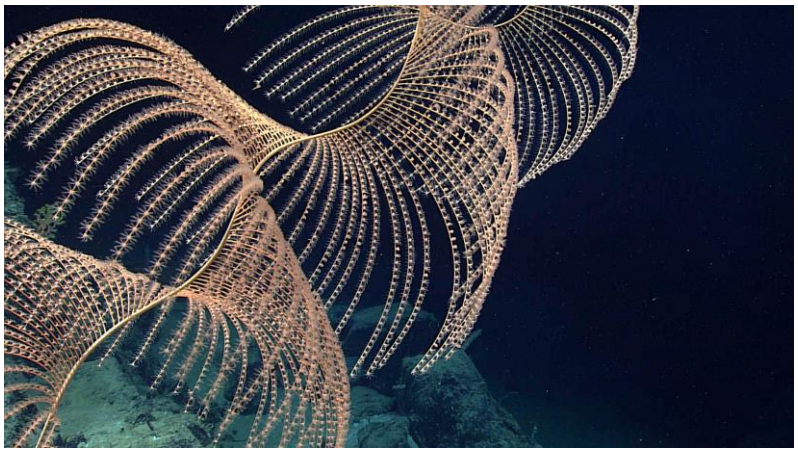
Scientific Name ***Iridogorgia magnispiralis*** ALC079

Scientific Name Authorship **Watling, 2007**

Identified by Salgado, Enrique



EX1803_IMG_20180501T155442Z_ROVHD_CC



EX1803_IMG_20180501T185927Z_ROVHD_CC

EX1803_IMG_20180501T185905Z_ROVHD_CC

Taxonomy

Order	Alcyonacea
Family	Chrysogorgiidae
Genus	*Iridogorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1803
EventID	Dive14
Region	Gulf of Mexico
Locality	Southern West FL Escarpmen
Latitude	24.57700
Longitude	-84.27042
Depth (m)	2350

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	971819

Description Pink-orange, helical axis with primary branching, unilaterally emerging small polyps

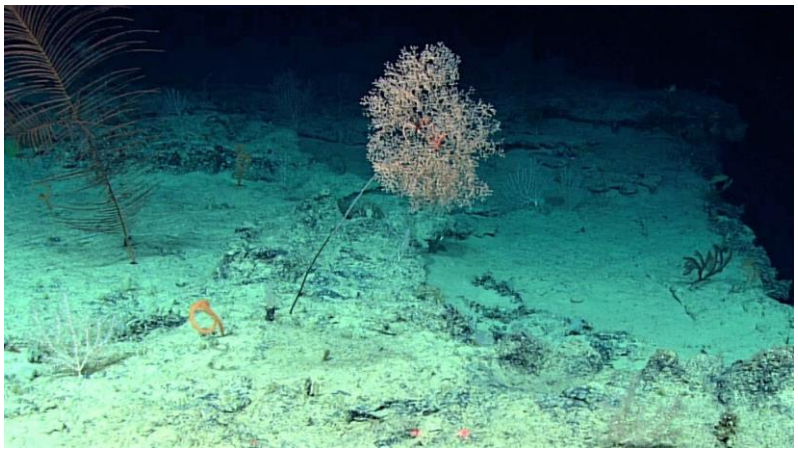
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Metallogorgia* sp.** ALC010

Scientific Name Authorship **Versluys, 1902**

Identified by Salgado, Enrique



EX1806_IMG_20180617T170845Z_ROVHD.jpg

EX1806_IMG_20180617T170814Z_ROVHD.jpg

EX1803_IMG_20180501T185355Z_ROVHD_CC

Taxonomy

Order	Alcyonacea
Family	Chrysogorgiidae
Genus	*Metallogorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94036
Longitude	-77.33011
Depth (m)	1249

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968203

Description Pink-orange, capitular branching, sparse unilaterally emerging small polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Clavularia* sp.** ALC080

Scientific Name Authorship **Blainville, 1830**

Identified by Salgado, Enrique

EX1907_IMG_20191118T164819Z_ROVHD

EX1907_IMG_20191119T144955Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Clavulariidae
Genus	*Clavularia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive11
Region	Southeast US
Locality	Key West Deep
Latitude	23.97648
Longitude	-81.93344
Depth (m)	1170

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Purple, overgrowing substrate, large polyps

Specimen not collected

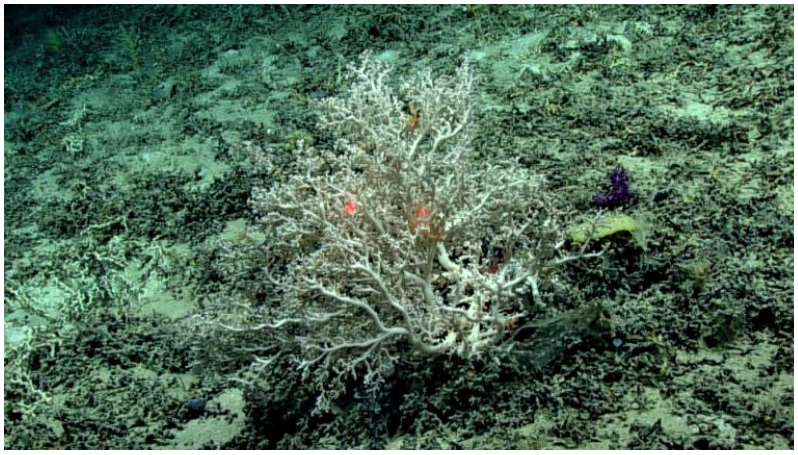
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Corallium* sp.**

ALC078

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique



EX1907_IMG_20191119T151754Z_ROVHD

EX1907_IMG_20191119T151431Z_ROVHD

EX1907_IMG_20191119T151431Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Coralliidae
Genus	*Corallium*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive12
Region	Southeast US
Locality	'Berg Bits' SW of Dry Tortugas
Latitude	23.98353
Longitude	-83.38666
Depth (m)	934

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description White, planar arborescent branching, sparse bilaterally alternating polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Corallium* sp.**

ALC067

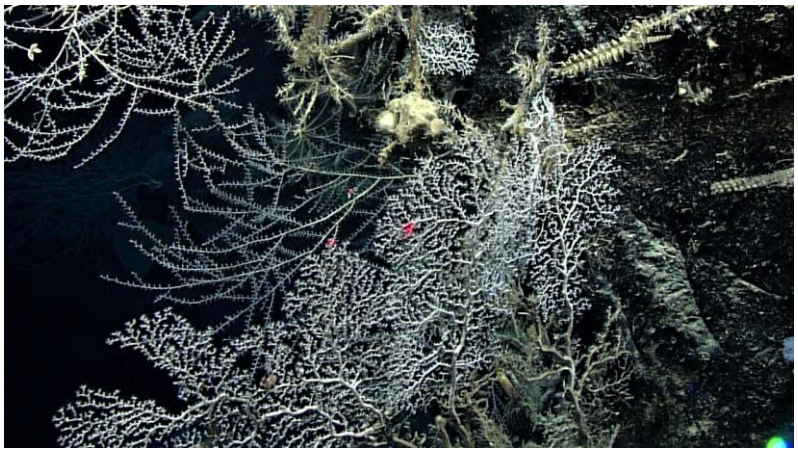
Scientific Name Authorship **Cuvier, 1798**

Identified by Amon, Diva

Taxonomy

Order	Alcyonacea
Family	Coralliidae
Genus	*Corallium*

ID Verification Status **unconfirmed**



EX1711_IMG_20171201T190025Z_ROVHD

Metadata

SurveyID	EX1711
EventID	Dive02
Region	Gulf of Mexico
Locality	Escarpment Canyon
Latitude	24.62280
Longitude	-84.10490
Depth (m)	2211

EX1711_IMG_20171201T190231Z_ROVHD

Sample Information

Field Sample Number	D02_SPEC04_BIO
USNM#	1482959
DSCRTP Catalog Number	949160

Description White, planar arborescent branching, sparse bilaterally alternating polyps

EX1711_IMG_20171201T190455Z_MICRO_D2_DIVE02_SPEC04BIO_M08

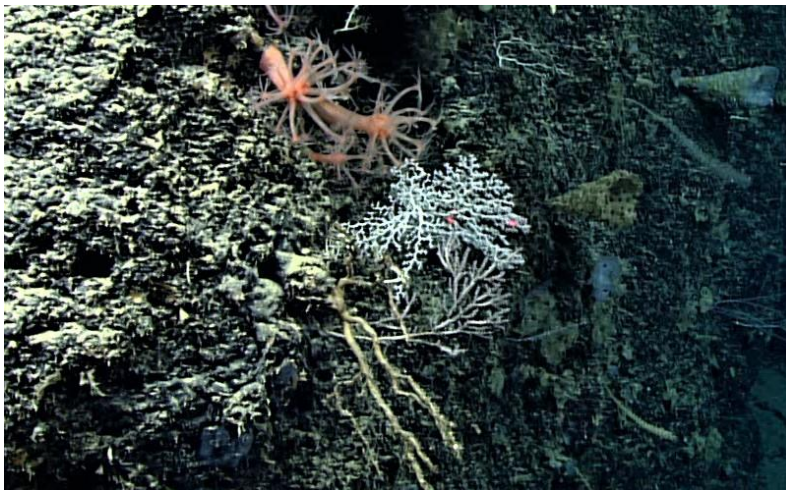
EX1711_IMG_20171201T190455Z_SMPSTL_D2_DIVE02_SPEC04BIO_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Corallium* sp.** ALC011

Scientific Name Authorship **Cuvier, 1798**

Identified by Amon, Diva



EX1711_IMG_20171204T180641Z_ROVHD.jpg

EX1711_IMG_20171204T181339Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Coralliidae
Genus	*Corallium*

ID Verification Status **unconfirmed**

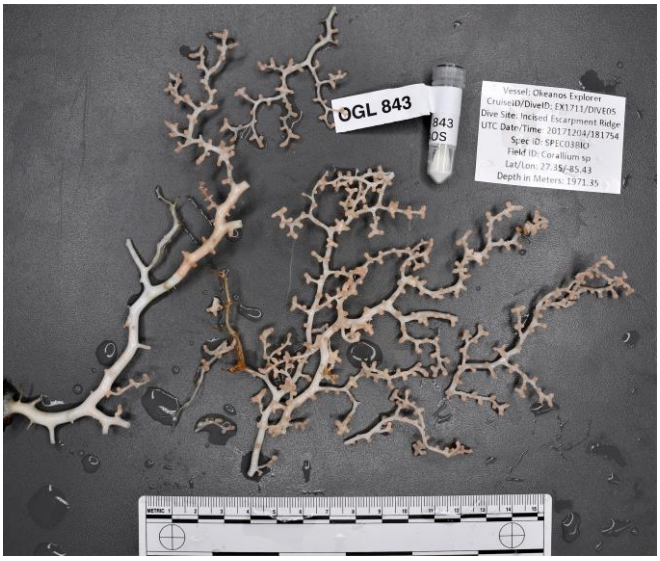
Metadata

SurveyID	EX1711
EventID	Dive05
Region	Gulf of Mexico
Locality	Incised Escarpment Ridge
Latitude	27.35220
Longitude	-85.43010
Depth (m)	1972

Sample Information

Field Sample Number	D05_SPEC03_BIO
USNM#	1482991
DSCRTP Catalog Number	949630

Description Pink-white, planar arborescent branching, sparse bilaterally alternating polyps

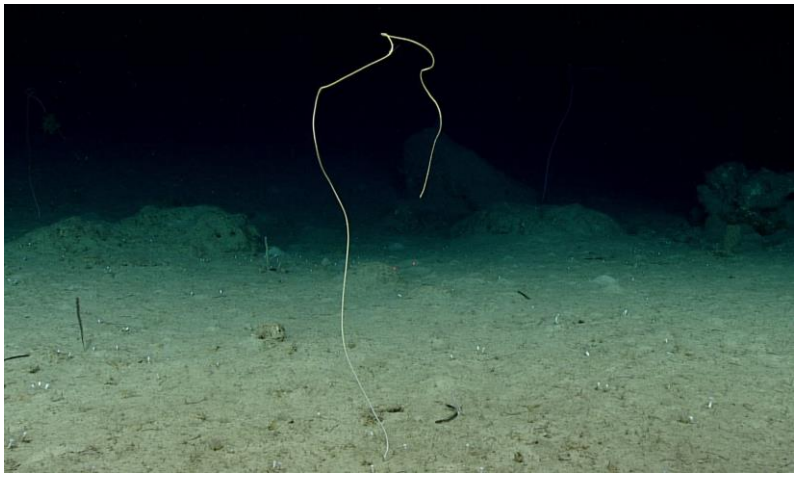


EX1711_IMG_20171204T181754Z_SMPSTL_D2_DIVE05_SPEC03BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Ellisella barbadensis*** ALC072

Scientific Name Authorship **(Duchassaing & Michelotti, 1864)** Identified by Cordeiro, Raif



EX1811_IMG_20181107T214755Z_ROVHD

EX1811_IMG_20181107T214938Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Ellisellidae
Genus	*Ellisella*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive07
Region	US Caribbean
Locality	Caja de Muertos
Latitude	17.82770
Longitude	-66.56490
Depth (m)	407

Sample Information

Field Sample Number	EX1811_D07_03B
USNM#	1550638
DSCRTP Catalog Number	Not available

Description Yellow, unbranched, long whip with small polyps

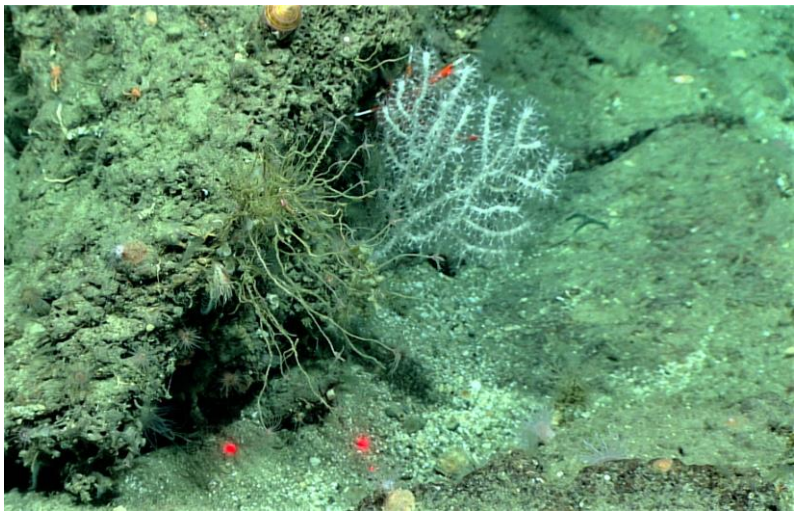
EX1811_IMG_20181107T215439Z_SMPSTL_D2_DIVE07_SPEC03BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Gorgoniidae** ALC012

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique



SE1062a_Gorgoniidae_340.jpg

SE1062b_Gorgoniidae_340.jpg

Taxonomy

Order	Alcyonacea
Family	Gorgoniidae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive13
Region	Southeast US
Locality	Big Dipper
Latitude	34.50326
Longitude	-75.69764
Depth (m)	339

Sample Information

Field Sample Number	D13_SPEC02_BIO
USNM#	1490658
DSCRTP Catalog Number	970021

Description White, complex arborescent branching, dense bulbous calices with visible sclerites and large polyps

EX1806_IMG_20180627T171143Z_SMPSTL_D2_DIVE13_SPEC02BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanella* sp.** ALC024

Scientific Name Authorship **Gray, 1870**

Identified by Cairns, Stephen

EX1811_IMG_20181117T151649Z_ROVHD

EX1811_IMG_20181117T151627Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Acanella*
ID Verification Status	**confirmed by taxonomic analysis**

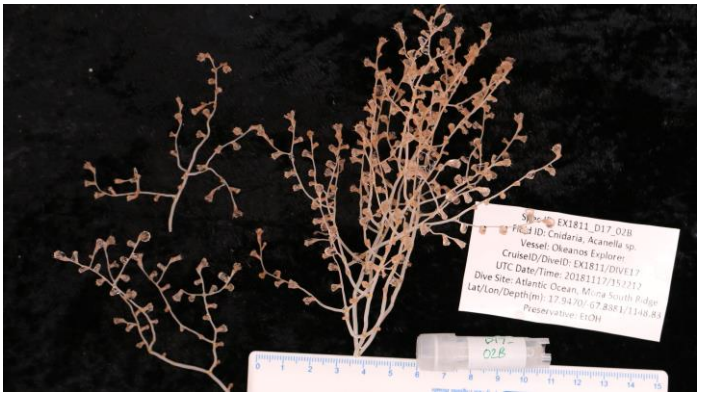
Metadata

SurveyID	EX1811
EventID	Dive17
Region	US Caribbean
Locality	Mona South Ridge
Latitude	17.94700
Longitude	-67.88810
Depth (m)	1149

Sample Information

Field Sample Number	EX1811_D17_02B
USNM#	1550657
DSCRTP Catalog Number	Not available

Description Pink-white, thin and bushy branches with dark nodes, sparse polyps



EX1811_IMG_20181117T152212Z_SMPSTL_D2_DIVE17_SPEC02BIO_L07

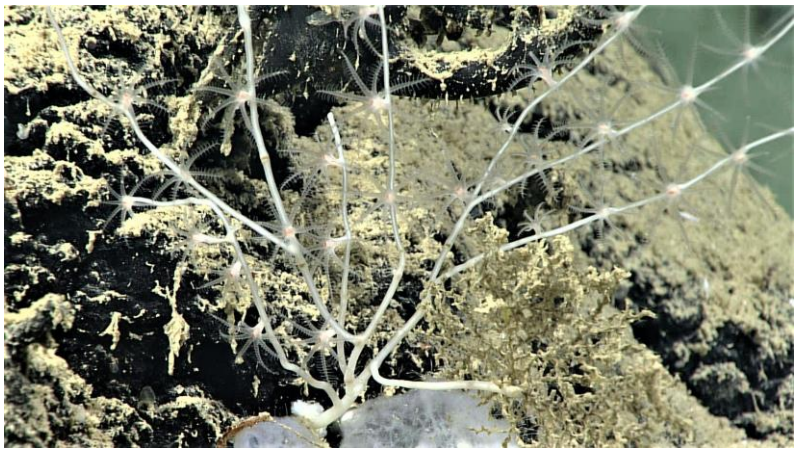
Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC018

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

EX1811_IMG_20181109T163425Z_ROVHD



EX1811_IMG_20181109T162945Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

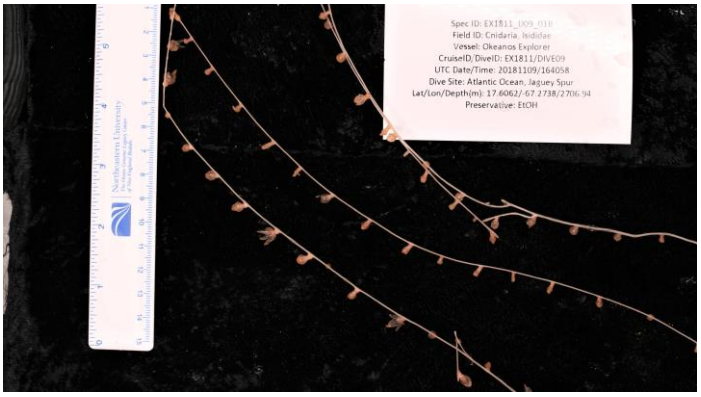
Metadata

SurveyID	EX1811
EventID	Dive09
Region	US Caribbean
Locality	Jaguey Spur
Latitude	17.60620
Longitude	-67.27380
Depth (m)	2707

Sample Information

Field Sample Number	EX1811_D09_01B
USNM#	1550642
DSCRTP Catalog Number	Not available

Description White, thin dichotomous branches with nodes, sparse small polyps



EX1811_IMG_20181109T164058Z_SMPSTL_D2_DIVE09_SPEC01BIO_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanella* sp.** ALC026

Scientific Name Authorship **Gray, 1870**

Identified by Bassett, Rachel

EX1711_IMG_20171213T205455Z_ROVHD.jpg

EX1711_IMG_20171213T205527Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Acanella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1711
EventID	Dive11
Region	Gulf of Mexico
Locality	KC560/603
Latitude	26.42260
Longitude	-92.35080
Depth (m)	2069

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	950049

Description White, bushy branches with dark nodes, sparse polyps

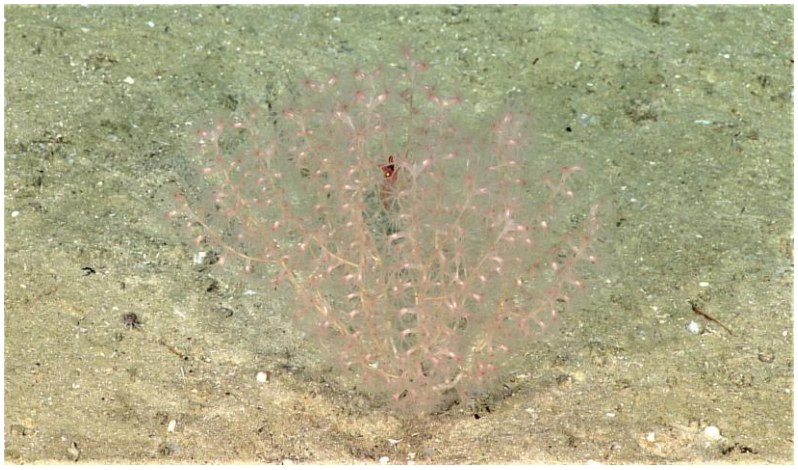
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Acanella* sp.** ALC025

Scientific Name Authorship **Gray, 1870**

Identified by France, Scott



Acanella_EX1806_1865.jpg

EX1806_IMG_20180614T144728Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Acanella*
ID Verification Status	**confirmed by taxonomic analysis**

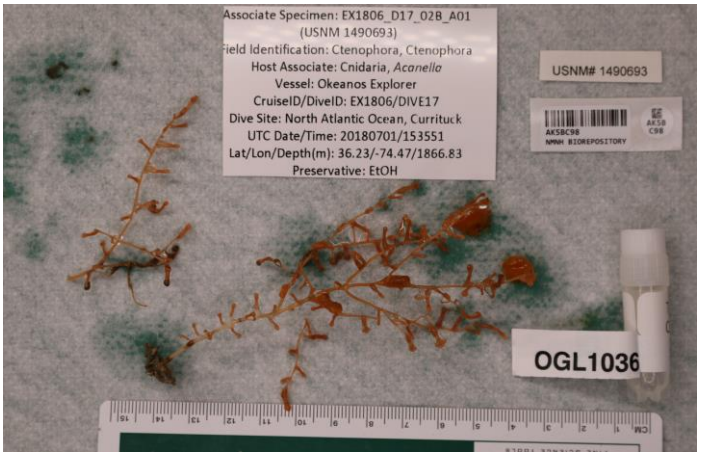
Metadata

SurveyID	EX1806
EventID	Dive17
Region	Southeast US
Locality	Corrituck
Latitude	36.23006
Longitude	-74.46571
Depth (m)	1867

Sample Information

Field Sample Number	D17_SPEC02_BIO
USNM#	1490688
DSCRTP Catalog Number	970078

Description Pink-orange, bushy branches with dark nodes, sparse polyps



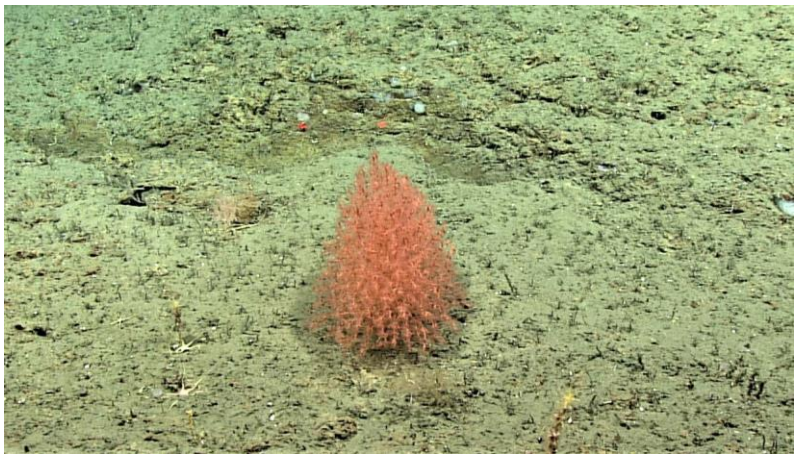
EX1806_IMG_20180701T153551Z_SMPSTL_D2_DIVE17_SPEC02BIO_A01_L01.jpg

Order Alcyonacea (sea fans and soft corals)

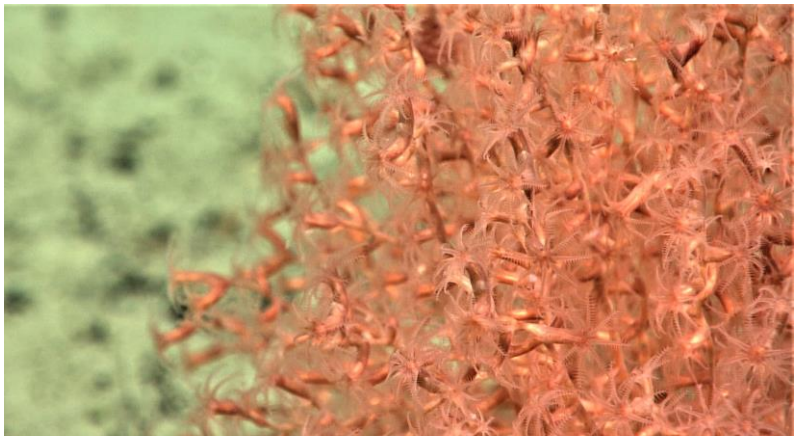
Scientific Name ***Acanella* sp.** ALC023

Scientific Name Authorship **Gray, 1870**

Identified by Salgado, Enrique



EX1903L2_IMG_20190709T192932Z_ROVHD



EX1903L2_IMG_20190709T192813Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Acanella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1903
EventID	Dive17
Region	Southeast US
Locality	Wilmington Canyon
Latitude	38.32170
Longitude	-73.42690
Depth (m)	1398

Sample Information

Field Sample Number	EX1903L2_D17_01B
USNM#	1580864
DSCRTP Catalog Number	Not available

Description Pink-orange, bushy branching with dark nodes, dense polyps

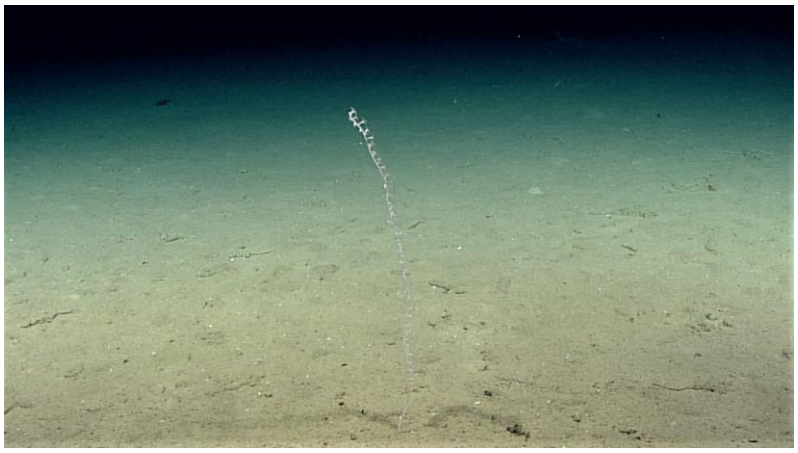
EX1903L2_IMG_20190709T193247Z_SMPSTL_D17_01B_L01

Order Alcyonacea (sea fans and soft corals)

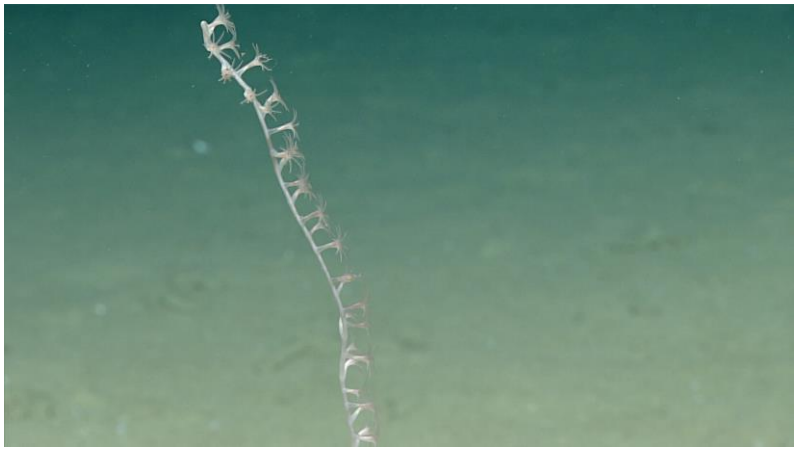
Scientific Name ***Lepidisis caryophyllia*** ALC034

Scientific Name Authorship **Verrill, 1883**

Identified by Wagner, Daniel



EX1803_IMG_20180420T184428Z_ROVHD



EX1803_IMG_20180420T184449Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Lepidisis*

ID Verification Status **unconfirmed**

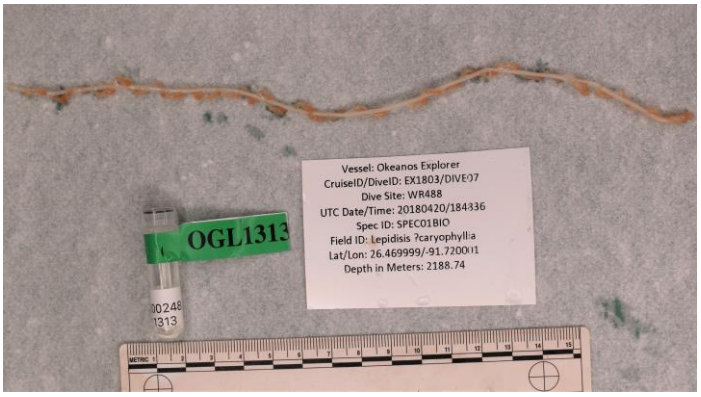
Metadata

SurveyID	EX1803
EventID	Dive07
Region	Gulf of Mexico
Locality	WR488
Latitude	26.46990
Longitude	-91.72000
Depth (m)	2189

Sample Information

Field Sample Number	D07_SPEC01_BIO
USNM#	1507279
DSCRTP Catalog Number	970354

Description White-pink, unbranched with nodes, sparse polyps



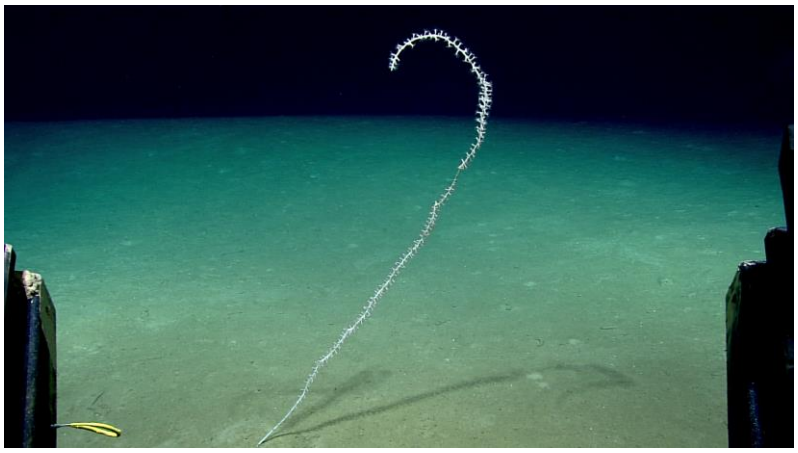
EX1803_IMG_20180420T184836Z_SMPSTL_D2_DIVE07_SPEC01BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Lepidisis* sp.** ALC068

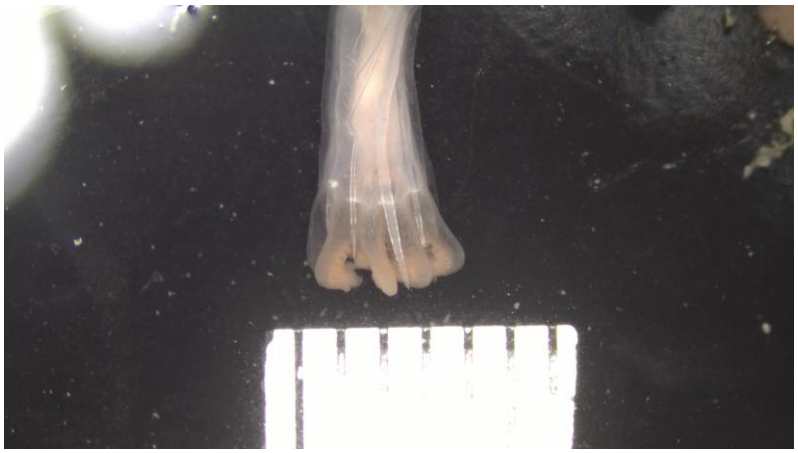
Scientific Name Authorship **Verrill, 1883**

Identified by France, Scott

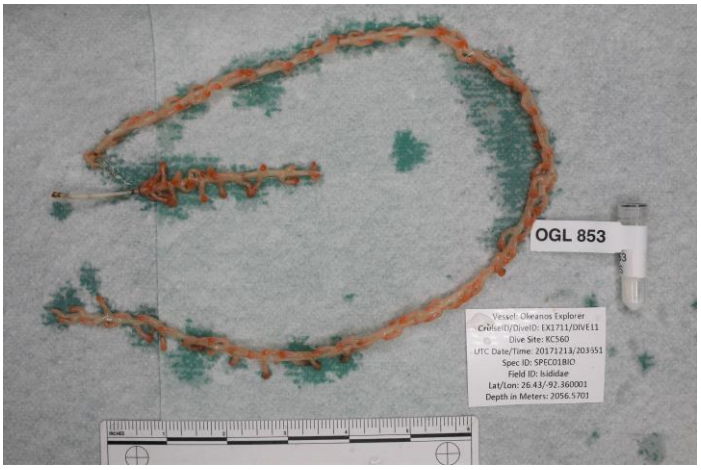


EX1711_IMG_20171213T203031Z_ROVHD

EX1711_IMG_20171213T202859Z_ROVHD



EX1711_IMG_20171213T203651Z_MICRO_D2_DIVE11_SPEC01BIO_M01



EX1711_IMG_20171213T203651Z_SMPSTL_D2_DIVE11_SPEC01BIO_L01

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Lepidisis*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1711
EventID	Dive11
Region	Gulf of Mexico
Locality	KC560
Latitude	26.42840
Longitude	-92.35530
Depth (m)	2057

Sample Information

Field Sample Number	D11_SPEC01_BIO
USNM#	1483022
DSCRTP Catalog Number	950047

Description Pink-white, unbranched with nodes, axially alternating polyps

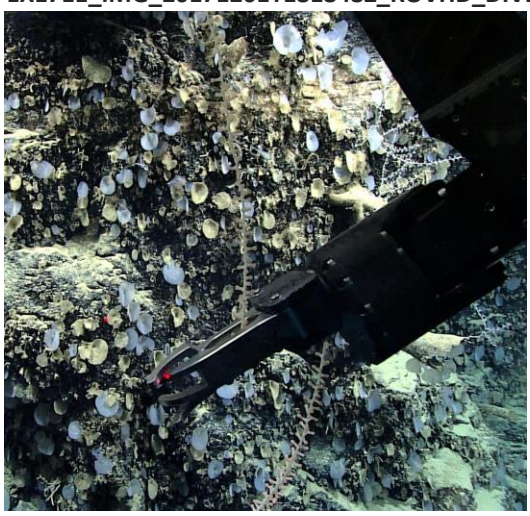
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Caribisis* sp.** ALC016

Scientific Name Authorship **Lamouroux, 1812**

Identified by Amon, Diva

EX1711_IMG_20171201T181848Z_ROVHD_DIVE02_SPEC03.jpg



EX1711_IMG_20171201T182647Z_ROVHD_DIVE02_SPEC03.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Caribisis*

ID Verification Status **unconfirmed**

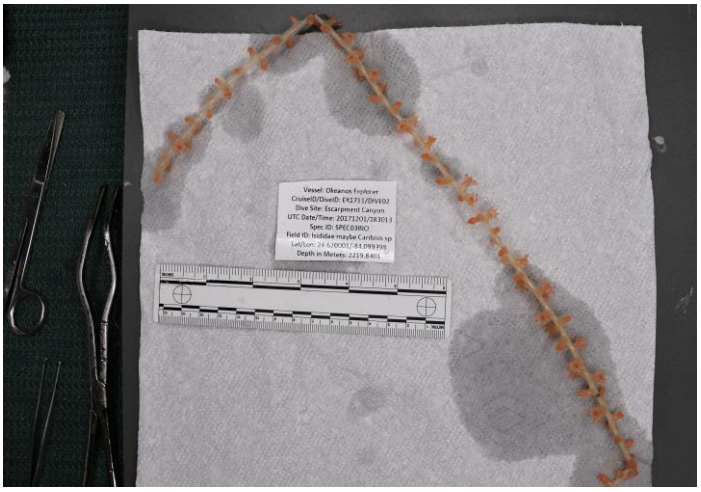
Metadata

SurveyID	EX1711
EventID	Dive02
Region	Gulf of Mexico
Locality	Escarpment Canyon
Latitude	24.62250
Longitude	-84.10490
Depth (m)	2222

Sample Information

Field Sample Number	D02_SPEC03_BIO
USNM#	1482958
DSCRTP Catalog Number	949146

Description White-pink, unbranched, sparse polyps



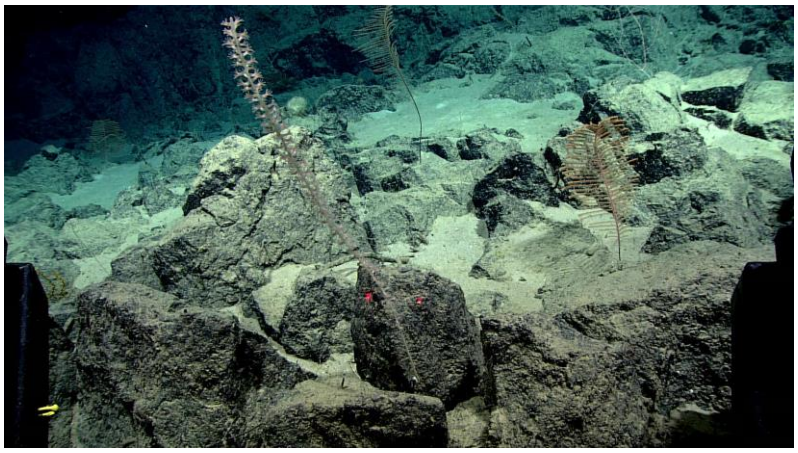
EX1711_IMG_20171201T183013Z_SMPSTL_D2_DIVE02_SPEC03BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Bathygorgia* sp.** ALC027

Scientific Name Authorship **Wright, 1885**

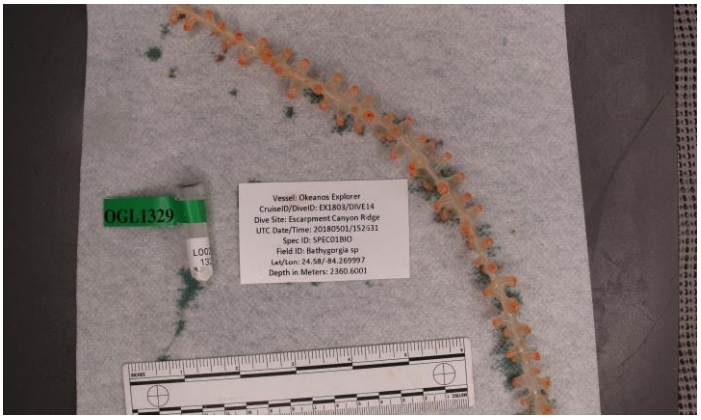
Identified by Wagner, Daniel



EX1803_IMG_20180501T152352Z_ROVHD

EX1803_IMG_20180501T152130Z_ROVHD

EX1803_IMG_20180501T152315Z_ROVHD



EX1803_IMG_20180501T152631Z_SMPSTL_D2_DIVE14_SPEC01BIO_L01

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Bathygorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1803
EventID	Dive14
Region	Gulf of Mexico
Locality	Escarpment Canyon Ridge
Latitude	24.58000
Longitude	-84.26990
Depth (m)	2361

Sample Information

Field Sample Number	D14_SPEC01_BIO
USNM#	1507329
DSCRTP Catalog Number	971742

Description Pink-white, unbranched, large bilaterally alternating polyps

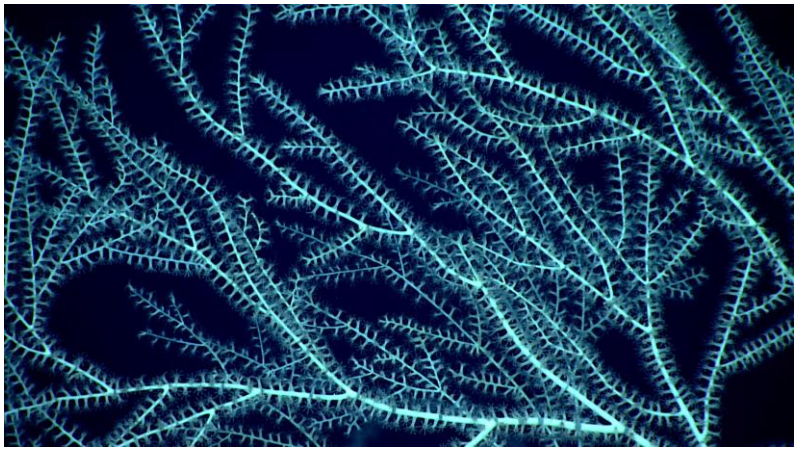
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Isidella* sp.** ALC029

Scientific Name Authorship **Gray, 1857**

Identified by Wagner, Daniel

EX1803_IMG_20180501T192637Z_ROVHD



EX1803_IMG_20180501T192637Z_ROVHD

EX1803_IMG_20180501T193214Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Isidella*

ID Verification Status **unconfirmed**

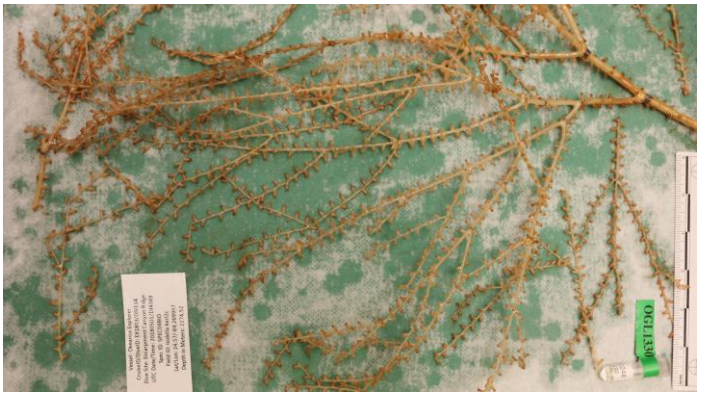
Metadata

SurveyID	EX1803
EventID	Dive14
Region	Gulf of Mexico
Locality	Escarpment Canyon Ridge
Latitude	24.57000
Longitude	-84.26990
Depth (m)	2275

Sample Information

Field Sample Number	D14_SPEC04_BIO
USNM#	1507334
DSCRTP Catalog Number	971812

Description Pink-white, simple branches arising from nodes, sparse bilaterally alternating polyps



EX1803_IMG_20180501T192637Z_ROVHD

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Isidella* sp.** ALC014

Scientific Name Authorship **Gray, 1857**

Identified by Salgado, Enrique

EX1806_IMG_20180617T170312Z_ROVHD.jpg

EX1806_IMG_20180617T170354Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Isidella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94023
Longitude	-77.33012
Depth (m)	1247

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968154

Description White, simple branches arising from nodes, pink polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

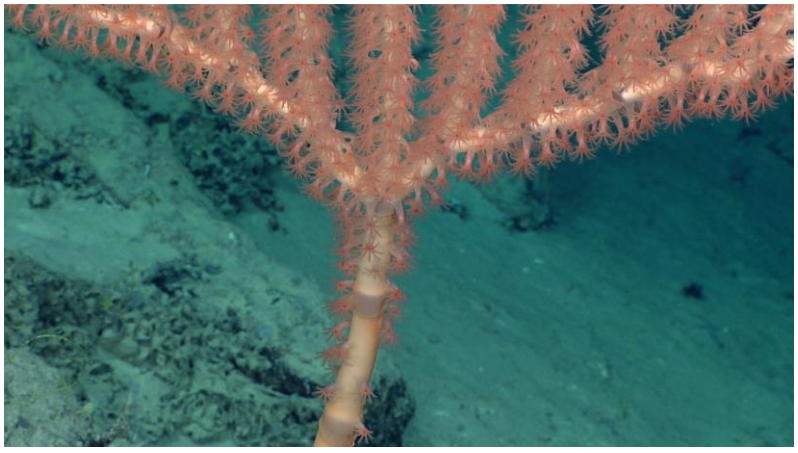
Scientific Name ***Isidella* sp.** ALC030

Scientific Name Authorship **Gray, 1857**

Identified by Salgado, Enrique

EX1806_IMG_20180617T163105Z_ROVHD.jpg

EX1806_IMG_20180617T163646Z_ROVHD.jpg



EX1806_IMG_20180617T163223Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Isidella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94013
Longitude	-77.32985
Depth (m)	1272

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968440

Description Pink-white, candelabrum branches arising from nodes, dense polyps

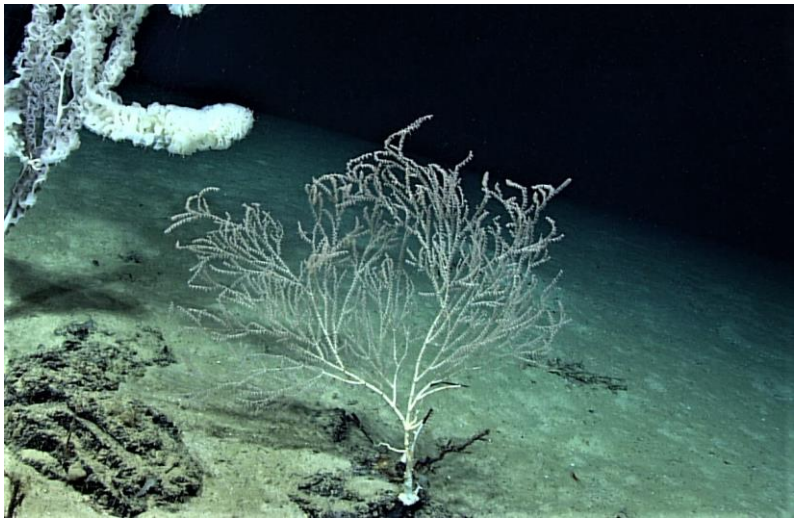
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Keratoisis* sp.** ALC033

Scientific Name Authorship **Wright, 1869**

Identified by Wagner, Daniel



EX1803_IMG_20180430T151651Z_ROVHD

EX1803_IMG_20180430T151903Z_ROVHD

EX1803_IMG_20180430T153336Z_SMPSTL_D2_DIVE13_SPEC01BIO_L01

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Keratoisis*

ID Verification Status **unconfirmed**

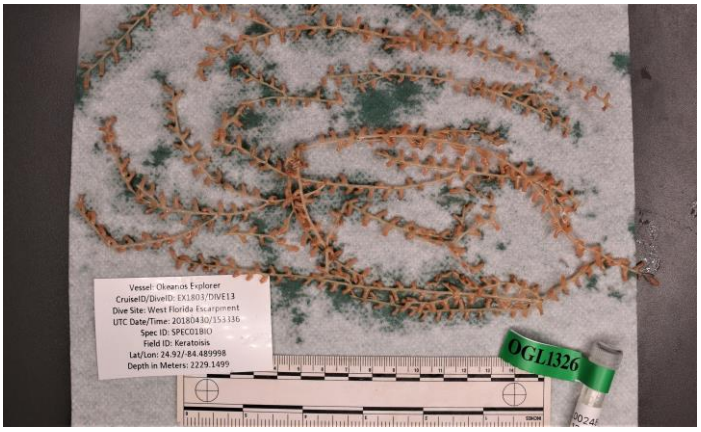
Metadata

SurveyID	EX1803
EventID	Dive13
Region	Gulf of Mexico
Locality	West Florida Escarpment
Latitude	24.92000
Longitude	-84.48990
Depth (m)	2229

Sample Information

Field Sample Number	D13_SPEC01_BIO
USNM#	1507326
DSCRTP Catalog Number	971664

Description White-pink, simple branches arising from internodes, sparse polyps



EX1803_IMG_20180430T153336Z_SMPSTL_D2_DIVE13_SPEC01BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Keratoisis* sp.** ALC031

Scientific Name Authorship **Wright, 1869**

Identified by Salgado, Enrique

SE1051a_Keratoisis_811.jpg

SE1051b_Keratoisis_811.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Keratoisis*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive07
Region	Southeast US
Locality	Richardson Ridge
Latitude	31.77002
Longitude	-77.36280
Depth (m)	811

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969192

Description White, simple branches arising from internodes, large dense polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Keratoisis* sp.** ALC032

Scientific Name Authorship **Wright, 1869**

Identified by Salgado, Enrique

SE1052a_Isididae_801.jpg

SE1052b_Isididae_801.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Keratoisis*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive07
Region	Southeast US
Locality	Richardson Ridge
Latitude	31.76993
Longitude	-77.36295
Depth (m)	801

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969205

Description Pink, simple branches arising from internodes, large dense polyps

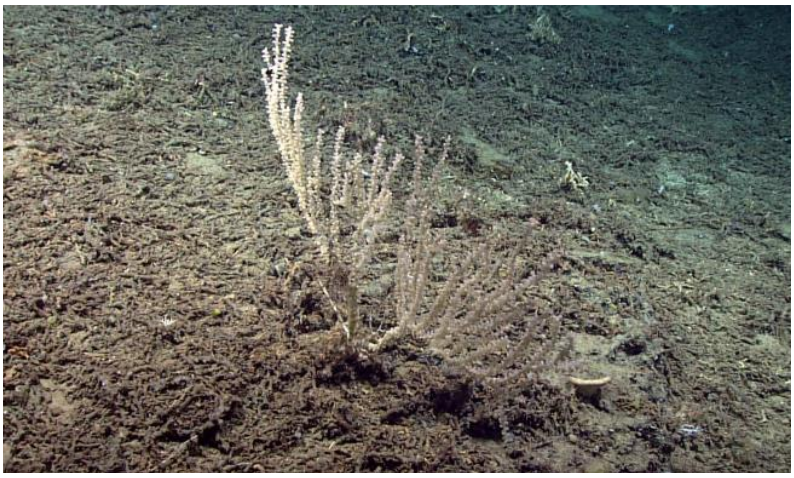
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC017

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique



EX1903L2_IMG_20190701T173519Z_ROVHD

EX1903L2_IMG_20190701T173904Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

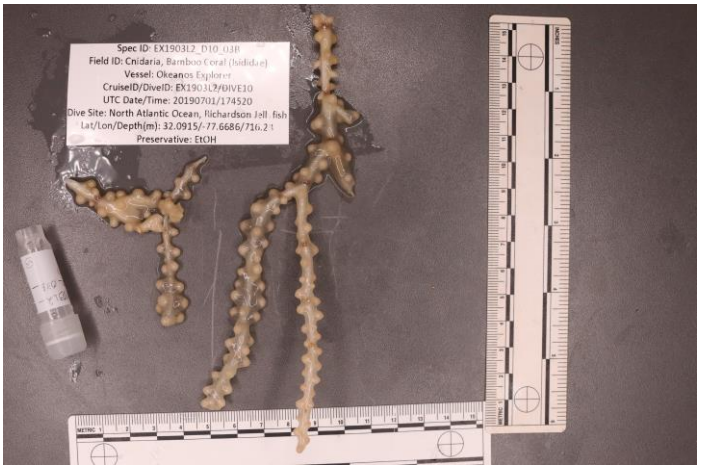
Metadata

SurveyID	EX1903
EventID	Dive10
Region	Southeast US
Locality	Richardson Jellyfish
Latitude	32.09150
Longitude	-77.66860
Depth (m)	716

Sample Information

Field Sample Number	EX1903L2_D10_03B
USNM#	1580841
DSCRTP Catalog Number	Not available

Description Beige, branches with nodes, fleshy large polyps



EX1903L2_IMG_20190701T174520Z_SMPSTL_D10_03B_L01

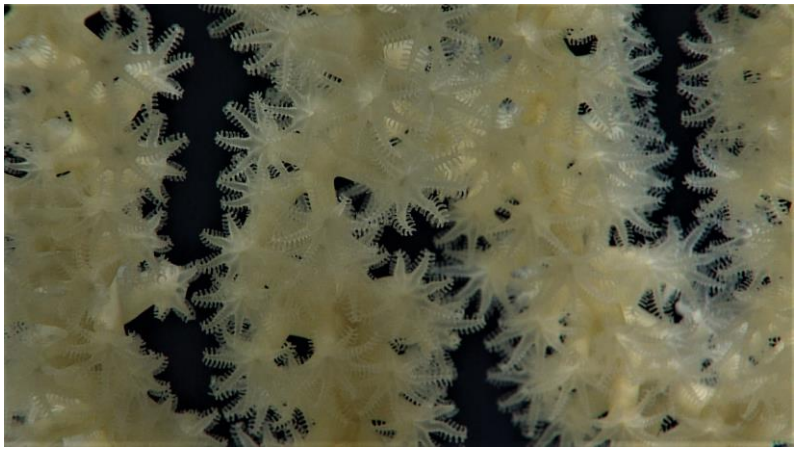
Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC020

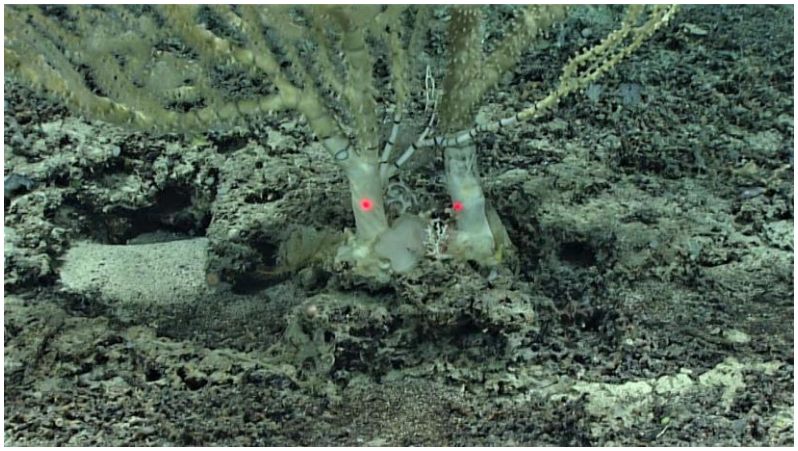
Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

EX1903L2_IMG_20190623T181334Z_ROVHD



EX1903L2_IMG_20190623T181552Z_ROVHD



EX1903L2_IMG_20190623T182048Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

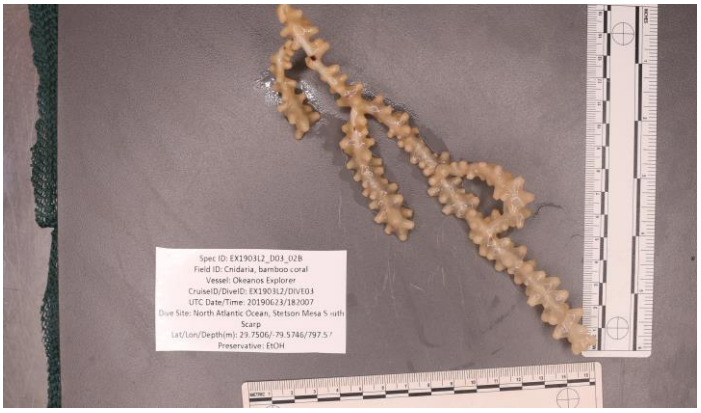
Metadata

SurveyID	EX1903
EventID	Dive03
Region	Southeast US
Locality	Stetson Mesa South Scarp
Latitude	29.75060
Longitude	-79.57460
Depth (m)	798

Sample Information

Field Sample Number	EX1903L2_D03_02B
USNM#	1580780
DSCRTP Catalog Number	Not available

Description Yellow-beige, branches with nodes, fleshy coenenchyme



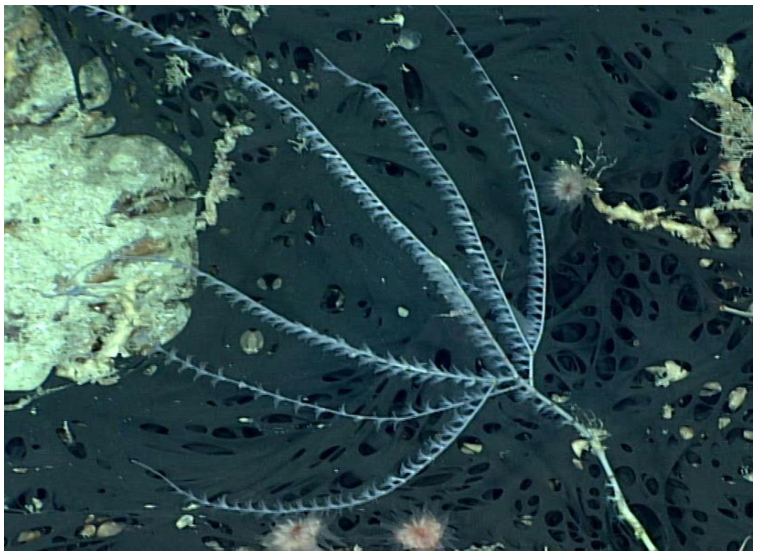
EX1903L2_IMG_20190623T182007Z_SMPSTL_D03_02B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Cladarisis* sp.** ALC028

Scientific Name Authorship **Watling, 2015**

Identified by Morrison, Cheryl



EX1806_IMG_20180620T194238Z_ROVHD.jpg

EX1806_IMG_20180620T195211Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Cladarisis*

ID Verification Status **unconfirmed**

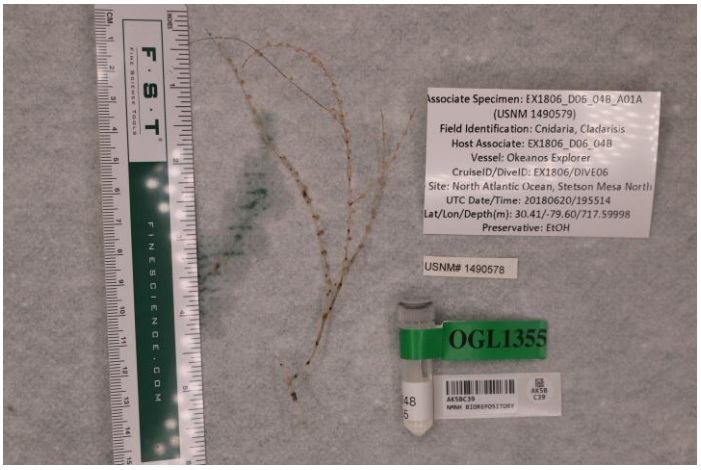
Metadata

SurveyID	EX1806
EventID	Dive06
Region	Southeast US
Locality	Stetson Mesa North
Latitude	30.40543
Longitude	-79.60172
Depth (m)	718

Sample Information

Field Sample Number	D06_SPEC04_BIO_A01
USNM#	1490579
DSCRTP Catalog Number	969136

Description White, thin sparse branches with dark nodes, sparse polyps



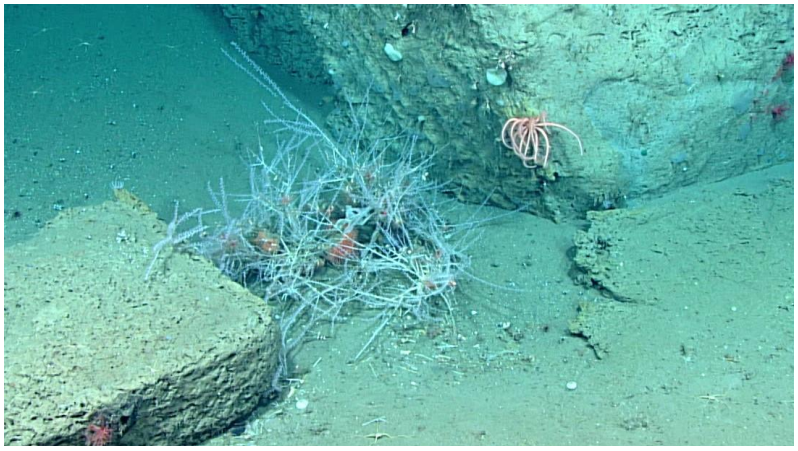
EX1806_IMG_20180620T195514Z_SMPSTL_D2_DIVE06_SPEC04BIO_A01_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC022

Scientific Name Authorship **Lamouroux, 1812**

Identified by Morrison, Cheryl



EX1806_IMG_20180701T144000Z_ROVHD.jpg

EX1806_IMG_20180701T144017Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive17
Region	Southeast US
Locality	Corrituck
Latitude	36.22998
Longitude	-74.46528
Depth (m)	1871

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	970062

Description White, simple thin bramble branches with nodes, sparse polyps

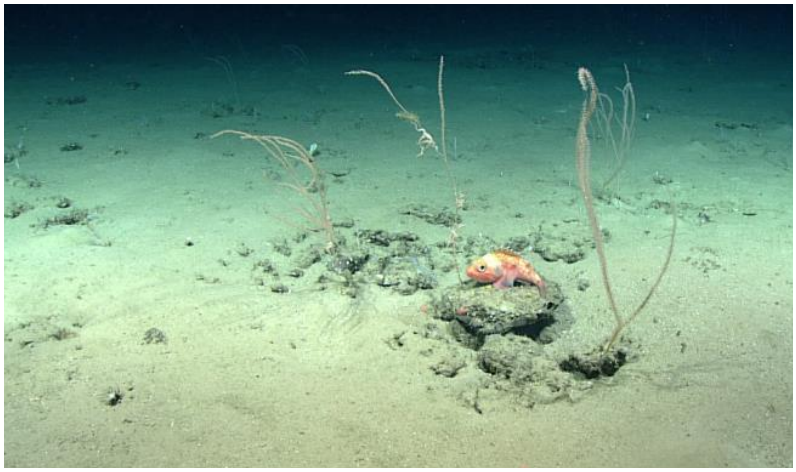
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC074

Scientific Name Authorship **Lamouroux, 1812**

Identified by Wagner, Daniel



EX1711_IMG_20171203T202141Z_ROVHD

EX1711_IMG_20171203T202341Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

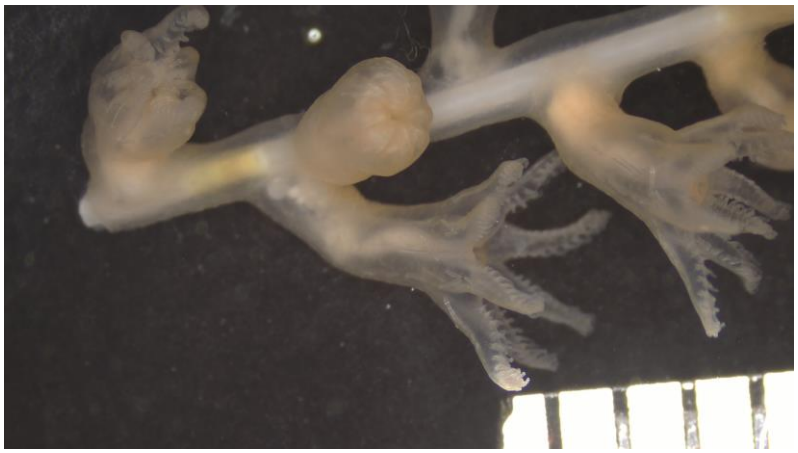
Metadata

SurveyID	EX1711
EventID	Dive04
Region	Gulf of Mexico
Locality	Long Mounds
Latitude	26.45000
Longitude	-84.46000
Depth (m)	383

Sample Information

Field Sample Number	D04_SPEC03_BIO
USNM#	1482984
DSCRTP Catalog Number	949577

Description Yellow-pink-white, simple long branches with nodes, fleshy polyps



EX1711_IMG_20171203T203553Z_MICRO_D2_DIVE04_SPEC03BIO_M03

EX1711_IMG_20171203T203553Z_SMPSTL_D2_DIVE04_SPEC03BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC019

Scientific Name Authorship **Lamouroux, 1812**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190621T191935Z_ROVHD

EX1903L2_IMG_20190621T192239Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1903
EventID	Dive01
Region	Southeast US
Locality	Canaveral Deep
Latitude	28.24680
Longitude	-79.59670
Depth (m)	722

Sample Information

Field Sample Number	EX1903L2_D01_04B_A
USNM#	1580765
DSCRTP Catalog Number	Not available

Description White, simple thin branches with nodes, sparse polyps

EX1903L2_IMG_20190621T194927Z_SMPSTL_D01_04B_A01_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC021

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

EX1806_IMG_20180617T171703Z_ROVHD.jpg

EX1806_IMG_20180617T171740Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94044
Longitude	-77.33013
Depth (m)	1249

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968183

Description Pink-orange, simple long branches with nodes, dense fleshy polyps

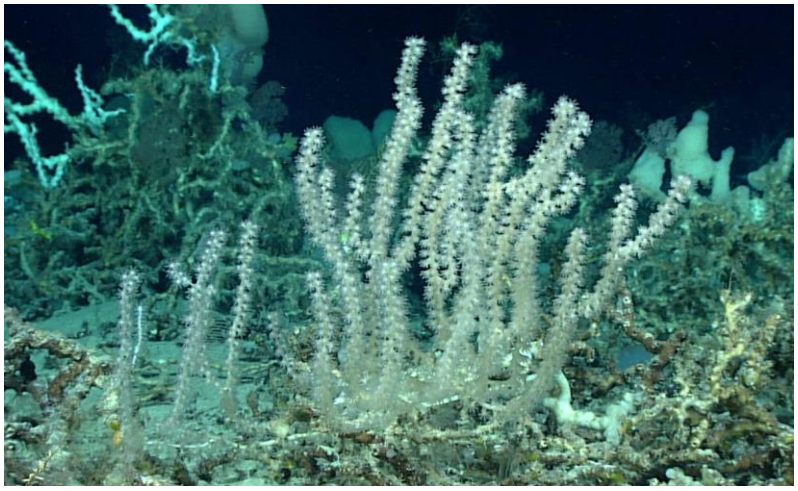
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae** ALC013

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique



EX1806_IMG_20180619T151929Z_ROVHD.jpg

EX1806_IMG_20180619T151816Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Isididae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.36792
Longitude	-79.72854
Depth (m)	727

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968567

Description White, simple long branches with nodes, large dense polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paragorgia* sp.** ALC038

Scientific Name Authorship **Milne Edwards, 1857**

Identified by Salgado, Enrique

EX1806_IMG_20180622T160547Z_PTMAN_COR.jpg

EX1806_IMG_20180622T160557Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Paragorgiidae
Genus	*Paragorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09346
Longitude	-77.16120
Depth (m)	926

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969470

Description Red-white, thick knoby branches, large polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paragorgia* sp.** ALC036

Scientific Name Authorship **Milne Edwards, 1857**

Identified by Morrison, Cheryl

EX1806_IMG_20180614T170807Z_ROVHD.jpg

EX1806_IMG_20180614T172521Z_D2_DIVE01_SPEC02BIO_04.jpg

Taxonomy

Order	Alcyonacea
Family	Paragorgiidae
Genus	*Paragorgia*

ID Verification Status **unconfirmed**

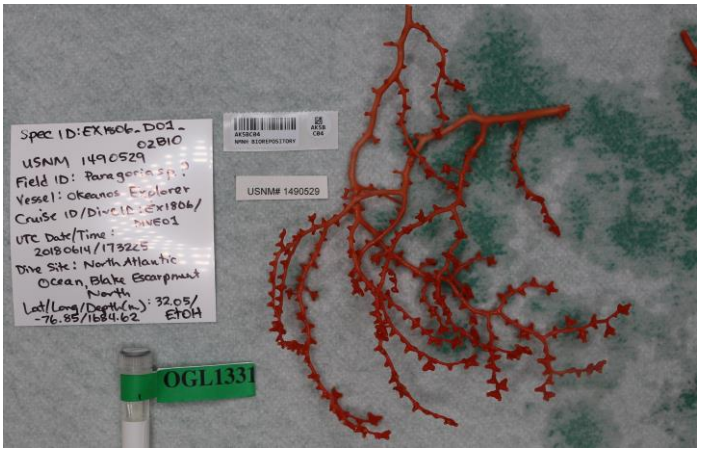
Metadata

SurveyID	EX1806
EventID	Dive06
Region	Southeast US
Locality	Blake Escarpment North
Latitude	32.05392
Longitude	-76.84608
Depth (m)	1685

Sample Information

Field Sample Number	D01_SPEC02_BIO
USNM#	1490529
DSCRTP Catalog Number	967799

Description Pink, complex planar branching, large sparse polyps



EX1806_IMG_20180614T173225Z_SMPSTL_D2_DIVE01_SPEC02BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

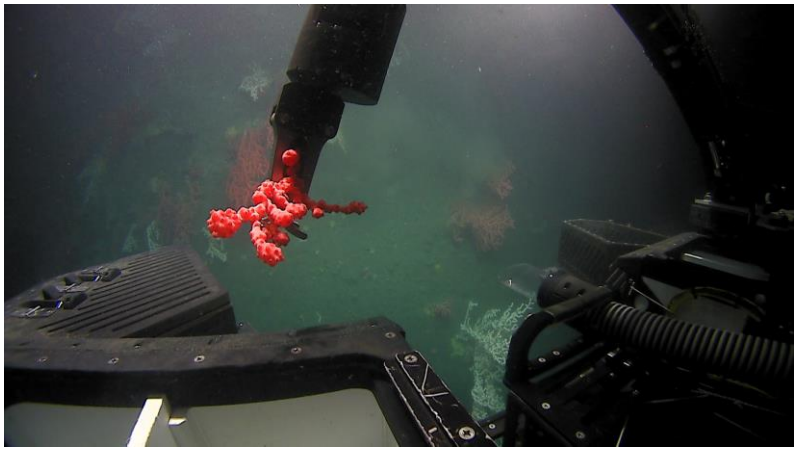
Scientific Name ***Paragorgia* sp.** ALC037

Scientific Name Authorship **Milne Edwards, 1857**

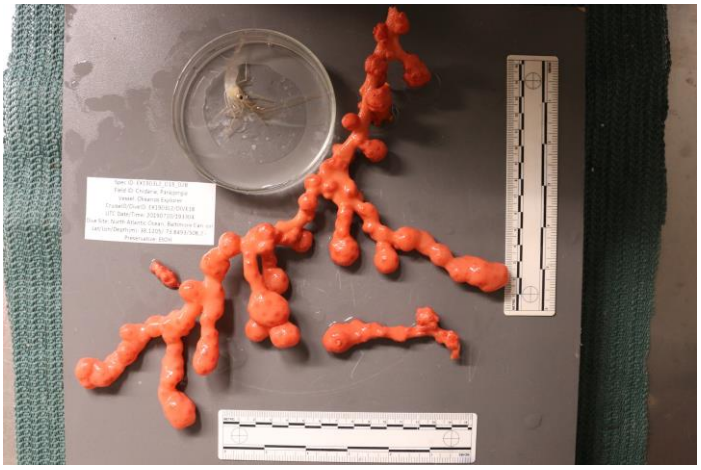
Identified by Weinnig, Alexis

EX1903L2_IMG_20190710T192456Z_ROVHD

EX1903L2_IMG_20190710T190414Z_ROVHD



EX1903L2_IMG_20190710T193157Z_D18_02B_04



EX1903L2_IMG_20190710T193304Z_SMPSTL_D18_02B_L01

Taxonomy

Order	Alcyonacea
Family	Paragorgiidae
Genus	*Paragorgia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1903
EventID	Dive18
Region	Southeast US
Locality	Baltimore Canyon
Latitude	38.12050
Longitude	-73.84930
Depth (m)	508

Sample Information

Field Sample Number	EX1903L2_D18_02B
USNM#	1580875
DSCRTP Catalog Number	Not available

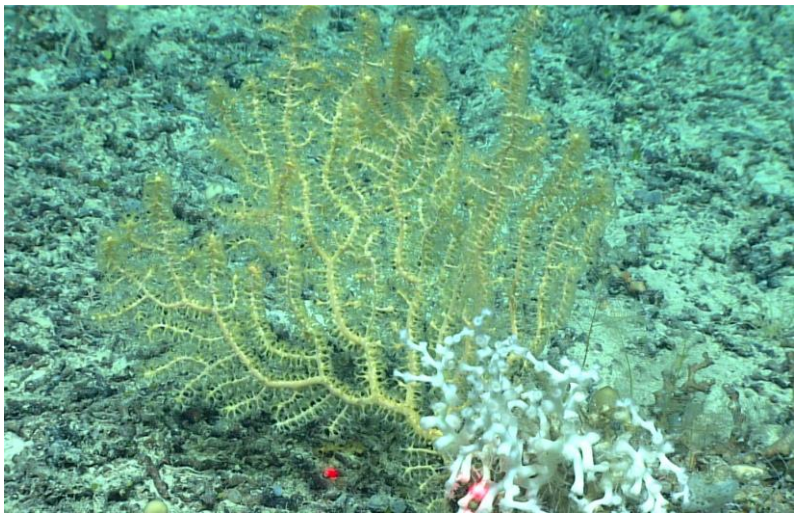
Description Red-white, thick knoby branches, large polyps

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.** ALC044

Scientific Name Authorship **Kölliker, 1865**

Identified by Salgado, Enrique



EX1806_IMG_20180619T190102Z_ROVHD.jpg

EX1806_IMG_20180619T190004Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.37058
Longitude	-79.72882
Depth (m)	714

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968734

Description Yellow, planar and dense arborescent branching, dense bilateral calices

Specimen not collected

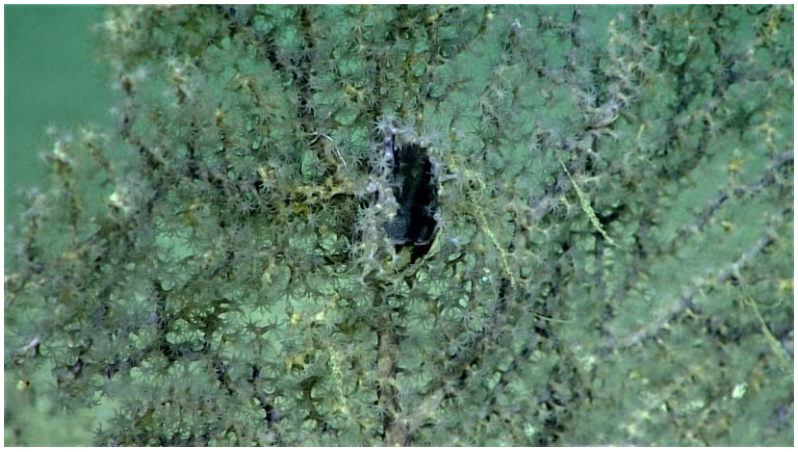
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.** ALC075

Scientific Name Authorship **Kölliker, 1865**

Identified by Basset, Rachel

EX1711_IMG_20171217T214121Z_ROVHD



EX1711_IMG_20171217T214121Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1711
EventID	Dive14
Region	Gulf of Mexico
Locality	Penchant Basin
Latitude	27.66330
Longitude	-91.35070
Depth (m)	760

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	950107

Description Yellow and purple, planar branching, large polyps and calices

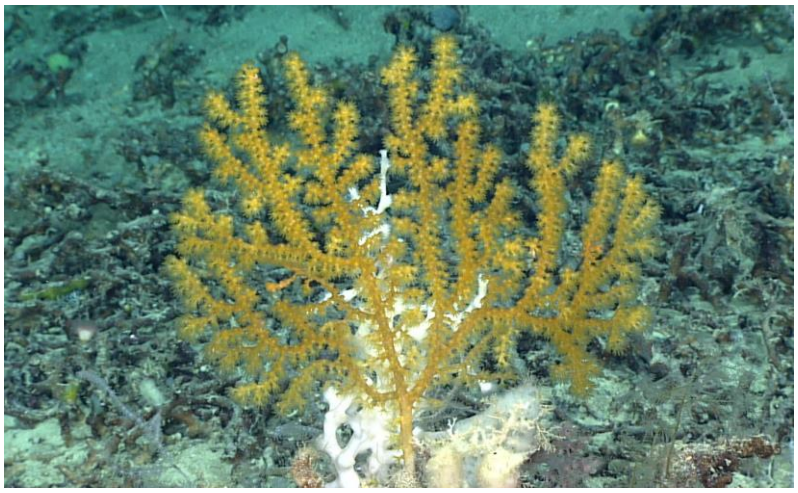
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.** ALC053

Scientific Name Authorship **Kölliker, 1865**

Identified by Salgado, Enrique



EX1806_IMG_20180619T153123Z_ROVHD.jpg

EX1806_IMG_20180619T153217Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.36787
Longitude	-79.72844
Depth (m)	727

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968578

Description Yellow-orange, planar and dense arborescent branching, sparse radial calices

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.**

ALC069

Scientific Name Authorship **Kölliker, 1865**

Identified by Cordeiro, Raif

EX1811_IMG_20181107T194854Z_ROVHD

EX1811_IMG_20181107T194712Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*
ID Verification Status	**confirmed by taxonomic analysis**

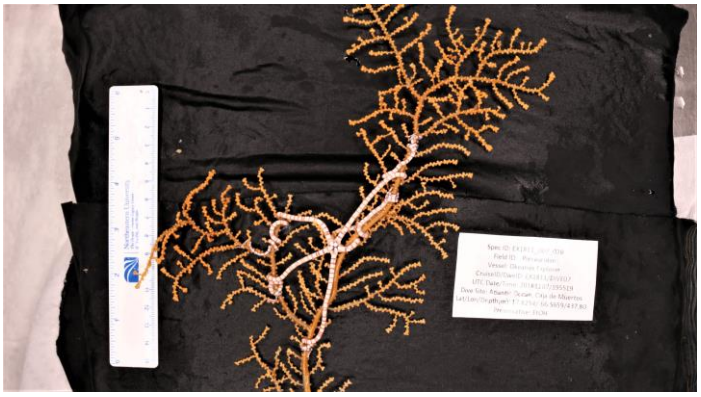
Metadata

SurveyID	EX1811
EventID	Dive07
Region	US Caribbean
Locality	Caja de Muertos
Latitude	17.82540
Longitude	-66.56590
Depth (m)	437.4

Sample Information

Field Sample Number	EX1811_D07_02B
USNM#	1550637
DSCRTP Catalog Number	Not available

Description Yellow-brown, complex planar branching, large polyps



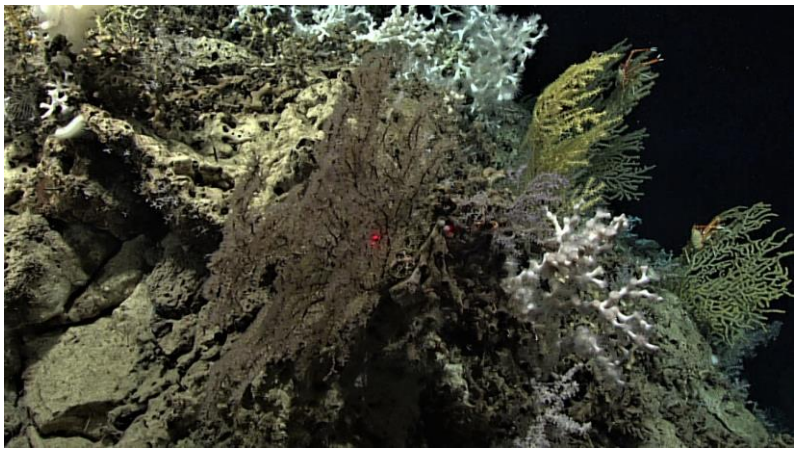
EX1811_IMG_20181107T195519Z_SMPSTL_D2_DIVE07_SPEC02BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.** ALC052

Scientific Name Authorship **Kölliker, 1865**

Identified by Wagner, Daniel



EX1803_IMG_20180428T192434Z_ROVHD

EX1803_IMG_20180428T192701Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1803
EventID	Dive11
Region	Gulf of Mexico
Locality	South of Long Mound
Latitude	26.37999
Longitude	-84.76999
Depth (m)	472

Sample Information

Field Sample Number	D11_SPEC04_BIO
USNM#	1507302
DSCRTP Catalog Number	971324

Description Brown-purple, complex branching, dense polyps

EX1803_IMG_20180428T194008Z_SMPSTL_D2_DIVE11_SPEC04BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paramuricea* sp.** ALC051

Scientific Name Authorship **Kölliker, 1865**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190709T193533Z_ROVHD

EX1903L2_IMG_20190709T193533Z_ROVHDb

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Paramuricea*

ID Verification Status **unconfirmed**

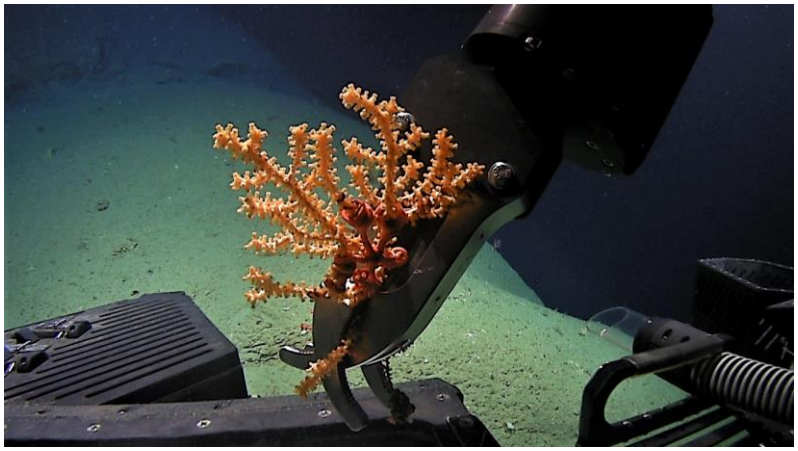
Metadata

SurveyID	EX1903
EventID	Dive17
Region	Southeast US
Locality	Wilmington Canyon
Latitude	38.32170
Longitude	-73.42690
Depth (m)	1398

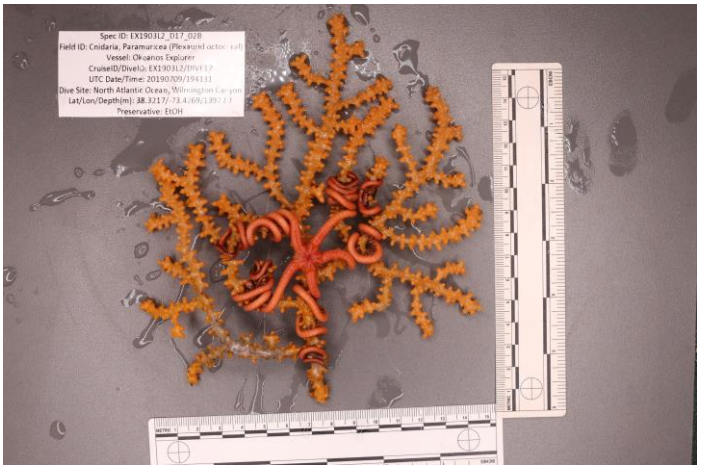
Sample Information

Field Sample Number	EX1903L2_D17_02B_A
USNM#	1580867
DSCRTP Catalog Number	Not available

Description Yellow-grey, planar branching, sparse large polyps.



EX1903L2_IMG_20190709T194008Z_D17_02B_04



EX1903L2_IMG_20190709T194131Z_SMPSTL_D17_02B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Placogorgia* sp.**

ALC040

Scientific Name Authorship **Gray, 1859**

Identified by Cordeiro, Raif

EX1811_IMG_20181113T142800Z_ROVHD

EX1811_IMG_20181113T142730Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Placogorgia*
ID Verification Status	**confirmed by taxonomic analysis**

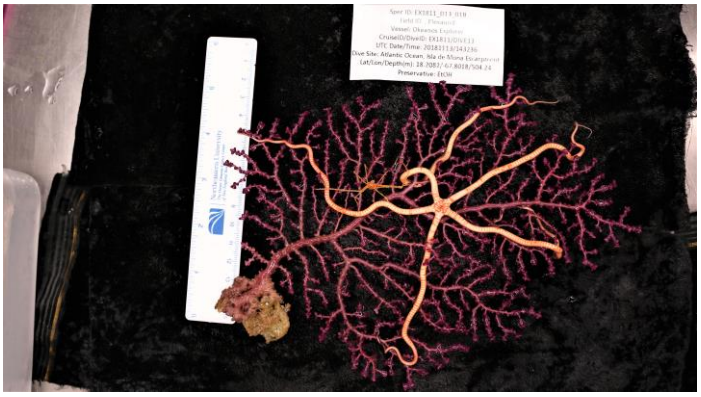
Metadata

SurveyID	EX1811
EventID	Dive13
Region	US Caribbean
Locality	Mona Escarpment
Latitude	18.20820
Longitude	-67.80180
Depth (m)	504

Sample Information

Field Sample Number	EX1811_D13_01B
USNM#	1550647
DSCRTP Catalog Number	Not available

Description Purple, planar complex branching, alternating polyps



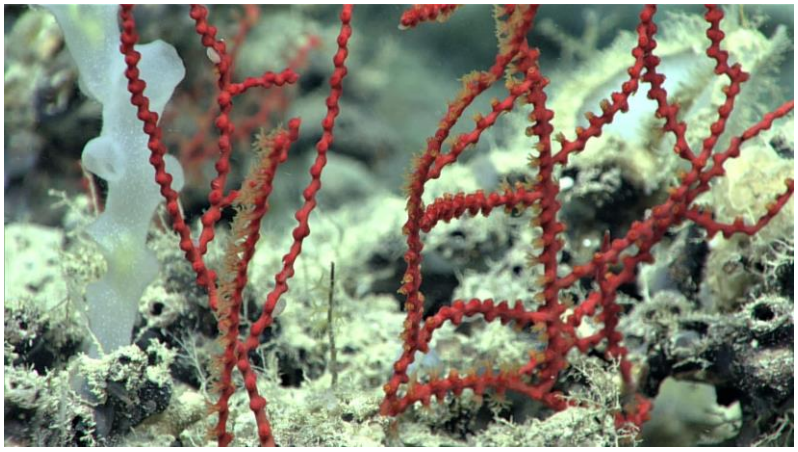
EX1811_IMG_20181113T143236Z_SMPSTL_D2_DIVE13_SPEC01BIO_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Swiftia koreni*** ALC077

Scientific Name Authorship **Duchassaing & Michelotti, 1864** Identified by Frometa, Janessy

EX1907_IMG_20191115T182715Z_ROVHD



EX1907_IMG_20191115T182629Z_ROVHD

EX1907_IMG_20191119T153235Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Swiftia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive08
Region	Southeast US
Locality	Miami Terrace
Latitude	25.56387
Longitude	-79.88334
Depth (m)	535

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Red, simple rectangular branching, alternating polyps with large calices

Specimen not collected

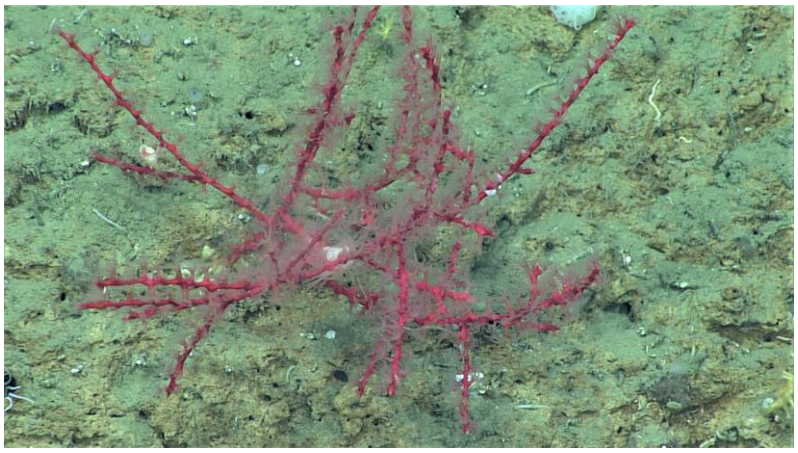
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Swiftia* sp.**

ALC048

Scientific Name Authorship **Gray, 1859**

Identified by Salgado, Enrique



EX1903L2_IMG_20190709T190603Z_ROVHD

EX1903L2_IMG_20190709T163057Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Swiftia*

ID Verification Status **unconfirmed**

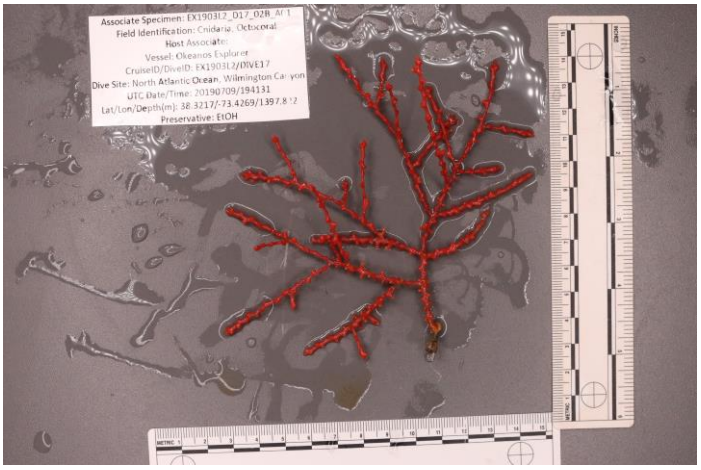
Metadata

SurveyID	EX1903
EventID	Dive17
Region	Southeast US
Locality	Wilmington Canyon
Latitude	38.32170
Longitude	-73.42690
Depth (m)	1398

Sample Information

Field Sample Number	EX1903L2_D17_02B_A
USNM#	1580868
DSCRTP Catalog Number	Not available

Description Red, simple branching, large polyps



EX1903L2_IMG_20190709T194131Z_SMPSTL_D17_02B_A01_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Swiftia* sp.** ALC054

Scientific Name Authorship **Duchassaing & Michelotti, 1864** Identified by France, Scott

EX1806_IMG_20180619T182452Z_ROVHD.jpg

EX1806_IMG_20180619T183234Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Swiftia*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.37035
Longitude	-79.72858
Depth (m)	711

Sample Information

Field Sample Number	D05_SPEC05_BIO
USNM#	1490558
DSCRTP Catalog Number	968703

Description White, planar and sparse arborescent branching, sparse bilateral calices

EX1806_IMG_20180619T183625Z_SMPSTL_D2_DIVE05_SPEC05BIO_L05.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC041

Scientific Name Authorship **Gray, 1859**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190627T172234Z_ROVHD

EX1903L2_IMG_20190627T172214Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

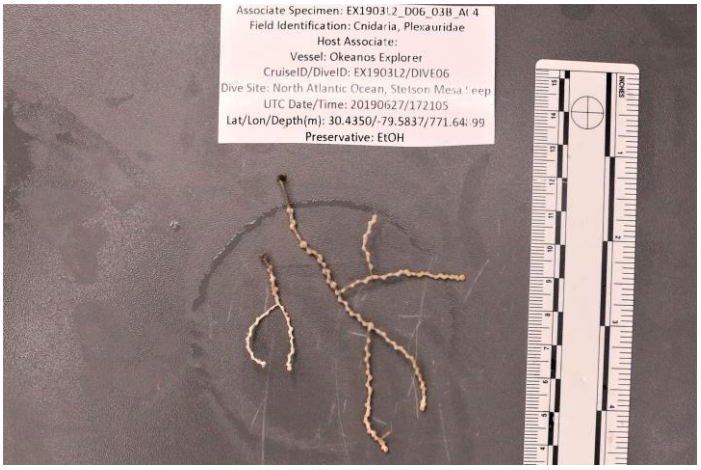
Metadata

SurveyID	EX1903
EventID	Dive06
Region	Southeast US
Locality	Stetson Mesa Seep
Latitude	30.43500
Longitude	-79.58370
Depth (m)	772

Sample Information

Field Sample Number	EX1903L2_D06_03B_A
USNM#	1580803
DSCRTP Catalog Number	Not available

Description White, simple branching, polyps alternating bilaterally



EX1903L2_IMG_20190627T172105Z_SMPSTL_D06_03B_A04_L01

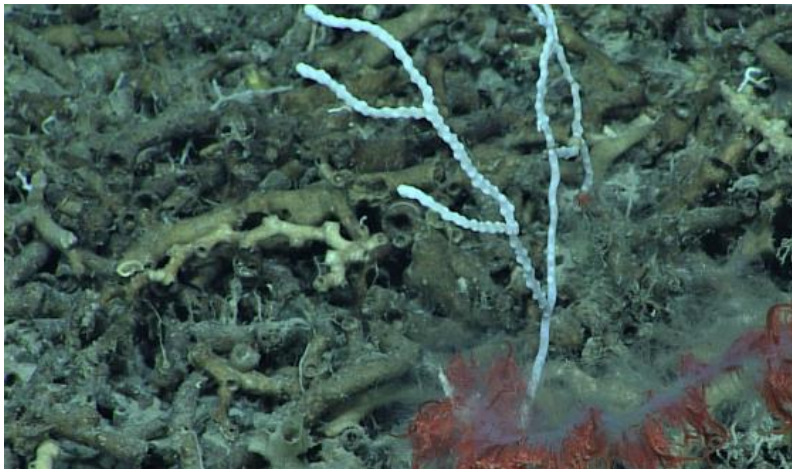
Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC042

Scientific Name Authorship **Gray, 1859**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190624T192930Z_ROVHD



EX1903L2_IMG_20190624T192435Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1903
EventID	Dive04
Region	Southeast US
Locality	Blake Plateau Knolls
Latitude	29.64920
Longitude	-78.45530
Depth (m)	769

Sample Information

Field Sample Number	EX1903L2_D04_04B
USNM#	1580792
DSCRTP Catalog Number	Not available

Description White, simple branching, polyps alternating bilaterally

EX1903L2_IMG_20190624T181516Z_SMPSTL_D04_04B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC043

Scientific Name Authorship **Gray, 1859**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190701T184131Z_ROVHD

EX1903L2_IMG_20190701T184104Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

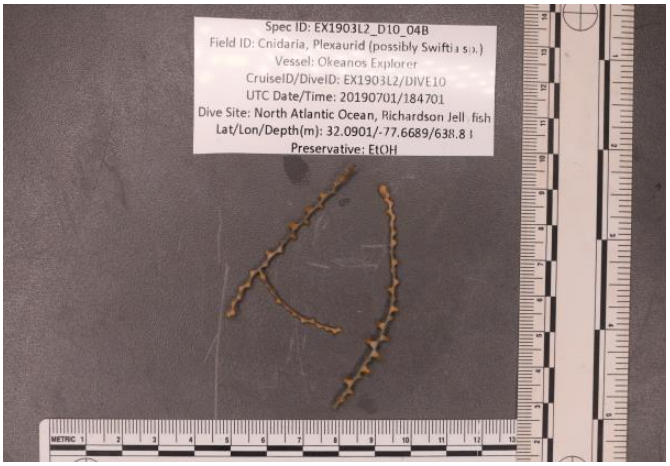
Metadata

SurveyID	EX1903
EventID	Dive10
Region	Southeast US
Locality	Richardson Jellyfish
Latitude	32.09010
Longitude	-77.66890
Depth (m)	639

Sample Information

Field Sample Number	EX1903L2_D10_04B
USNM#	1580842
DSCRTP Catalog Number	Not available

Description White-yellow, simple branching, alternating polyps



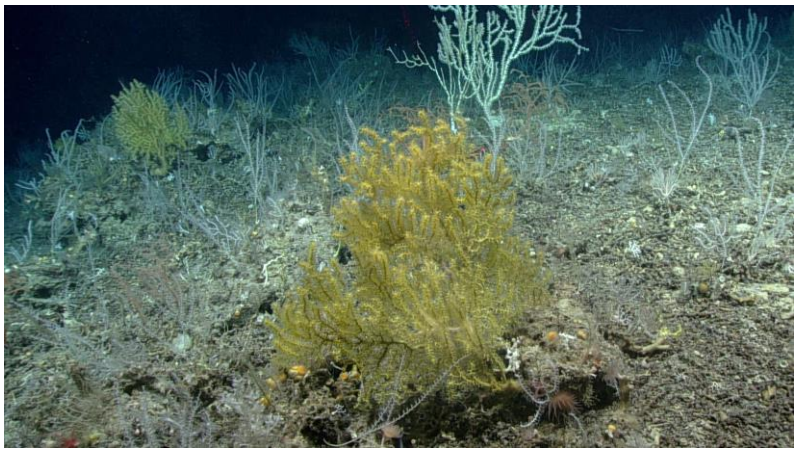
EX1903L2_IMG_20190701T184701Z_SMPSTL_D10_04B_L01

Order Alcyonacea (sea fans and soft corals)

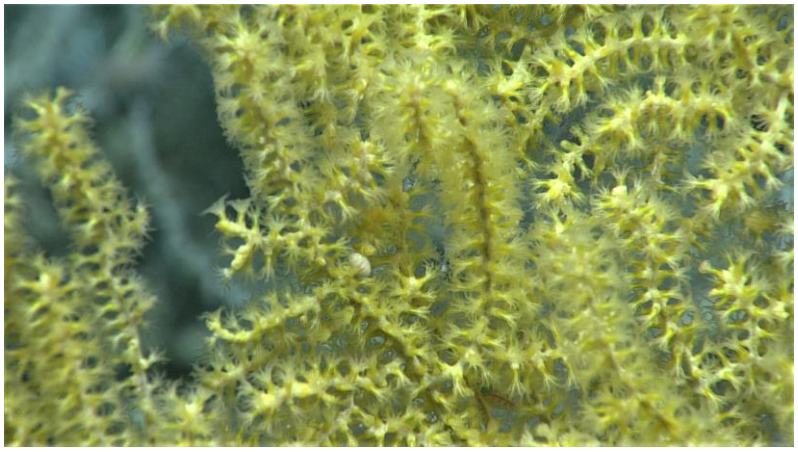
Scientific Name **Plexauridae** ALC076

Scientific Name Authorship **Gray, 1859**

Identified by Salgado, Enrique



EX1907_IMG_20191102T164937Z_ROVHD



EX1907_IMG_20191102T164532Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

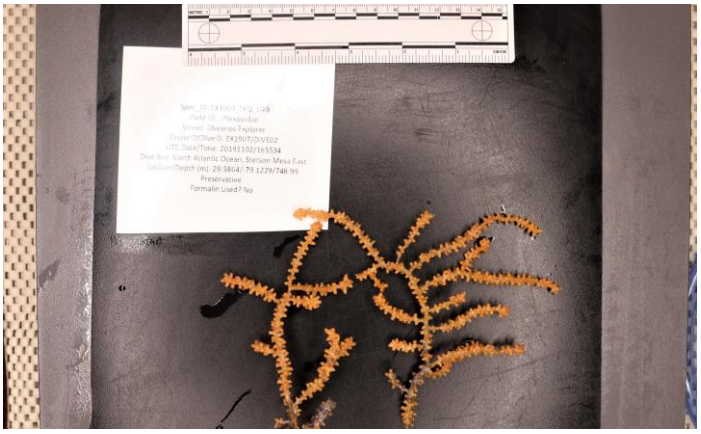
Metadata

SurveyID	EX1907
EventID	Dive02
Region	Southeast US
Locality	Stetson Mesa East
Latitude	29.58640
Longitude	-79.12290
Depth (m)	749

Sample Information

Field Sample Number	EX1907_D02_04B
USNM#	1607539
DSCRTP Catalog Number	Not available

Description Yellow-orange, complex branching, elongated polyps



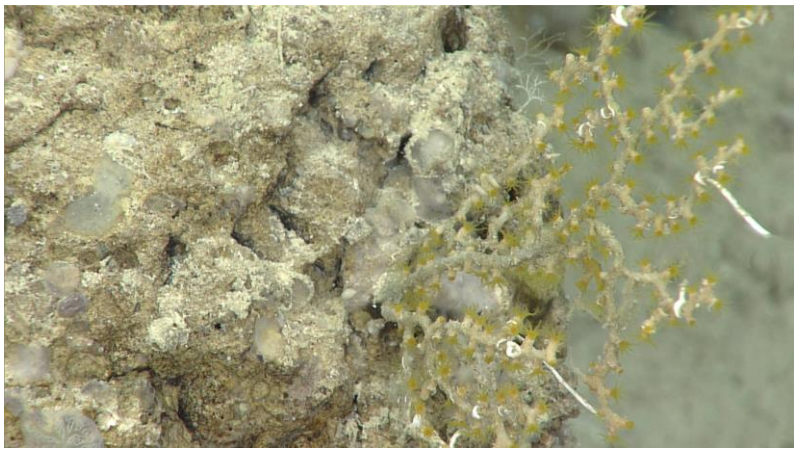
EX1907_IMG_20191102T165534Z_SMPSTL_D02_04B_L03

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC049

Scientific Name Authorship **Gray, 1859**

Identified by Auscavitch, Steve



EX1811_IMG_20181104T183234Z_ROVHD

EX1811_IMG_20181104T183736Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

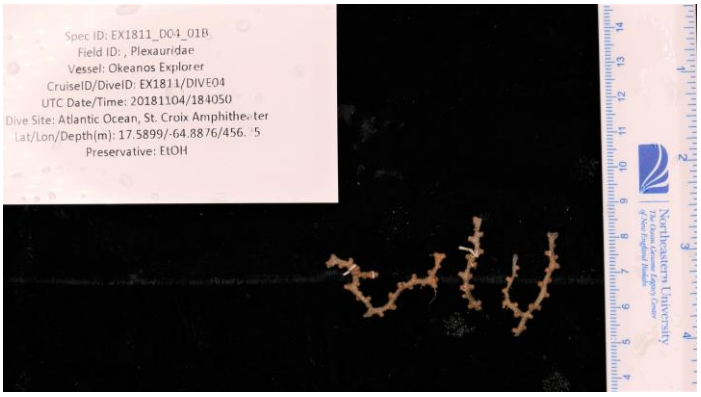
Metadata

SurveyID	EX1811
EventID	Dive04
Region	US Caribbean
Locality	St. Croix Amphitheater
Latitude	17.58990
Longitude	-64.88760
Depth (m)	457

Sample Information

Field Sample Number	EX1811_D04_01B
USNM#	1550627
DSCRTP Catalog Number	Not available

Description Yellow-grey, planar branching, sparse large polyps.



EX1811_IMG_20181104T184050Z_SMPSTL_D2_DIVE04_SPEC01BIO_L02

Order Alcyonacea (sea fans and soft corals)

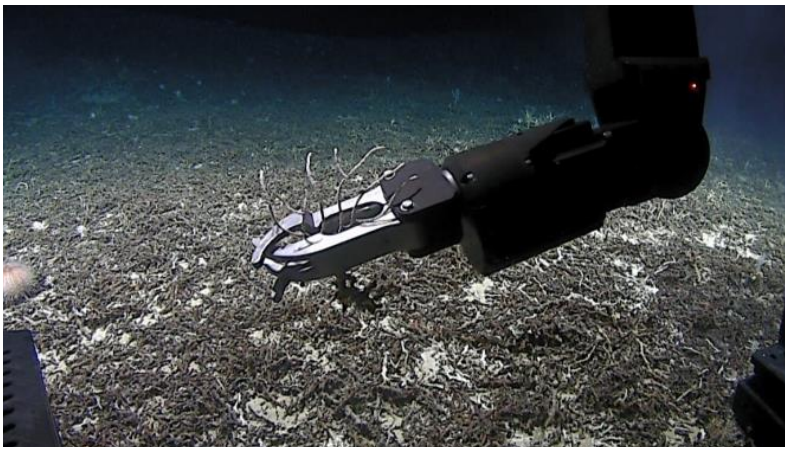
Scientific Name **Plexauridae** ALC046

Scientific Name Authorship **Gray, 1859**

Identified by Weinnig, Alexis

EX1903L2_IMG_20190622T182220Z_ROVHD

EX1903L2_IMG_20190622T182204Z_ROVHD



EX1903L2_IMG_20190622T182500Z_D02_02B_04

EX1903L2_IMG_20190622T182609Z_SMPSTL_D02_02B_L01

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1903
EventID	Dive02
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.10990
Longitude	-79.44670
Depth (m)	740

Sample Information

Field Sample Number	EX1903L2_D02_02B
USNM#	1580767
DSCRTP Catalog Number	Not available

Description White, simple branching, polyps alternating bilaterally

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC045

Scientific Name Authorship **Gray, 1859**

Identified by Salgado, Enrique

EX1811_IMG_20181104T175314Z_ROVHD

EX1811_IMG_20181104T175413Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive04
Region	US Caribbean
Locality	St. Croix Amphitheater
Latitude	17.59012
Longitude	-64.88807
Depth (m)	458

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow-grey, arborescent branching, large polyps.

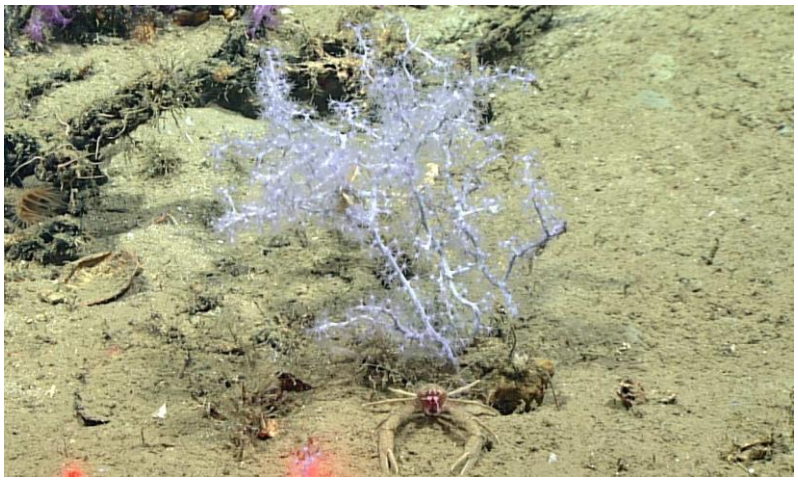
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC050

Scientific Name Authorship **Gray, 1859**

Identified by Wagner, Daniel



EX1711_IMG_20171211T154647Z_ROVHD.jpg

EX1711_IMG_20171211T154758Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

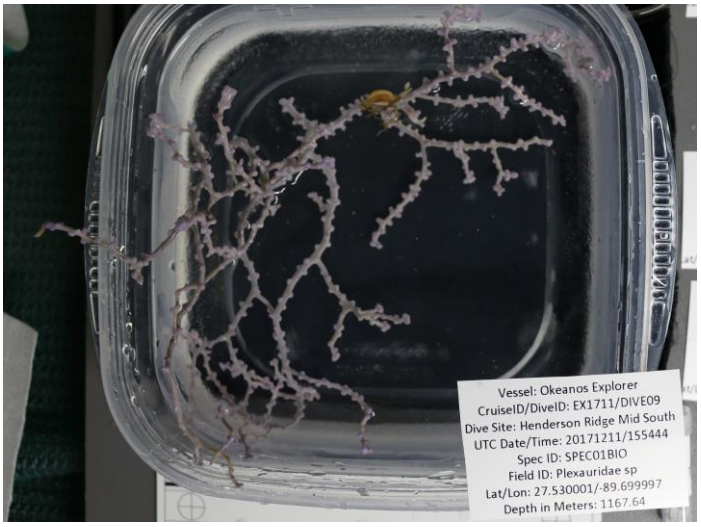
Metadata

SurveyID	EX1711
EventID	Dive09
Region	Gulf of Mexico
Locality	Henderson Ridge Mid-South
Latitude	27.53001
Longitude	-89.69990
Depth (m)	1168

Sample Information

Field Sample Number	D09_SPEC01_BIO
USNM#	1483006
DSCRTP Catalog Number	949896

Description Light purple, complex and dense arborescent branching, sparse bilateral calices



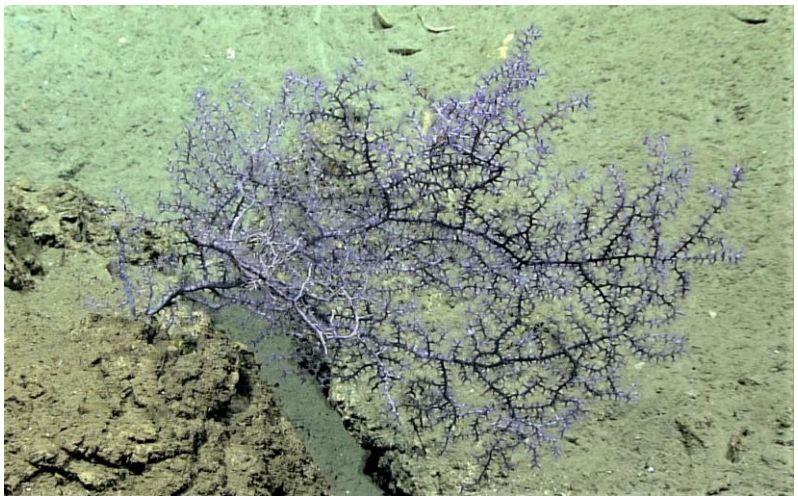
EX1711_IMG_20171211T155444Z_SMPSTL_D2_DIVE09_SPEC01BIO_L03.jpg

Order Alcyonacea (sea fans and soft corals)

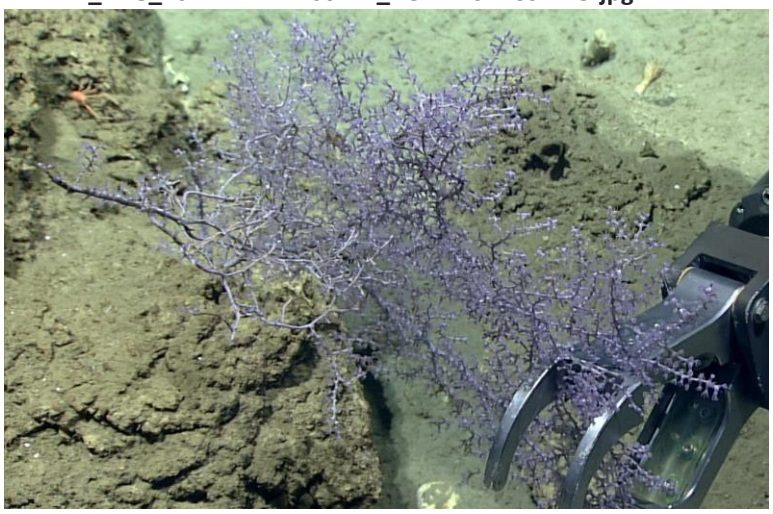
Scientific Name **Plexauridae** ALC047

Scientific Name Authorship **Gray, 1859**

Identified by Amon, Diva



EX1711_IMG_20171217T210024Z_ROVHDSPEC02BIO.jpg



EX1711_IMG_20171217T210421Z_ROVHDSPEC02BIO.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

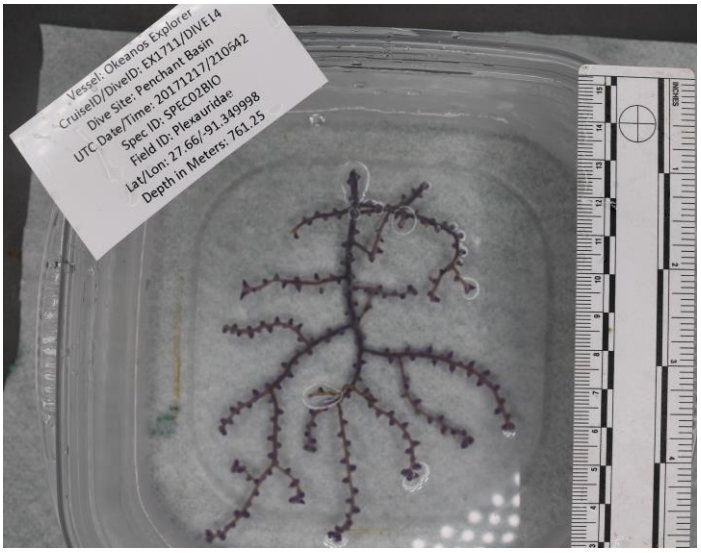
Metadata

SurveyID	EX1711
EventID	Dive14
Region	Gulf of Mexico
Locality	Penchant Basin
Latitude	27.66018
Longitude	-91.34999
Depth (m)	761

Sample Information

Field Sample Number	D14_SPEC02_BIO
USNM#	1483041
DSCRTP Catalog Number	950100

Description Purple, planar and dense arborescent branching, sparse bilateral calices



EX1711_IMG_20171217T210642Z_SMPSTL_D2_DIVE14_SPEC02BIO_L02.jpg

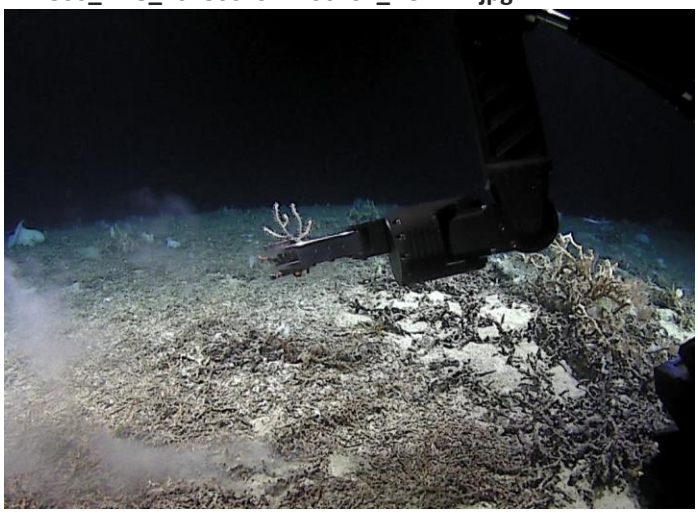
Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae** ALC039

Scientific Name Authorship **Gray, 1859**

Identified by Morrison, Cheryl

EX1806_IMG_20180619T143045Z_ROVHD.jpg



EX1806_IMG_20180619T143525Z_D2_DIVE05_SPEC01BIO_04.jpg

Taxonomy

Order	Alcyonacea
Family	Plexauridae
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.36741
Longitude	-79.72904
Depth (m)	731

Sample Information

Field Sample Number	D05_SPEC01_BIO
USNM#	1490555
DSCRTP Catalog Number	968522

Description White, planar and sparse arborescent branching, sparse bilateral calices

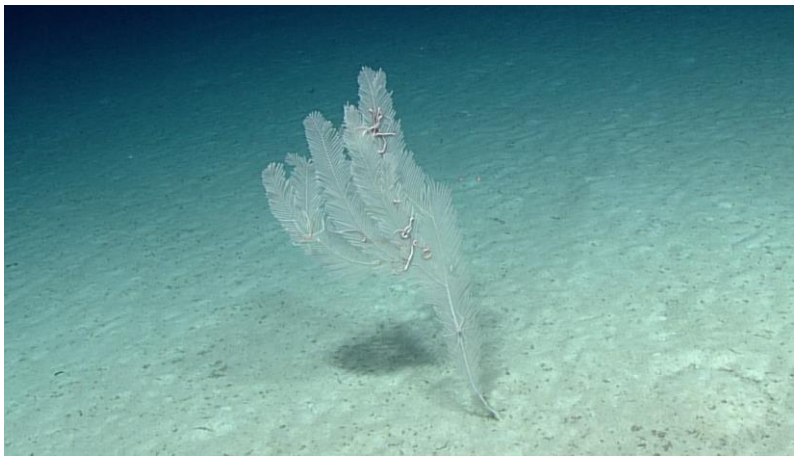
EX1806_IMG_20180619T143813Z_SMPSTL_D2_DIVE05_SPEC01BIO_L02.jpg

Order Alcyonacea (sea fans and soft corals)

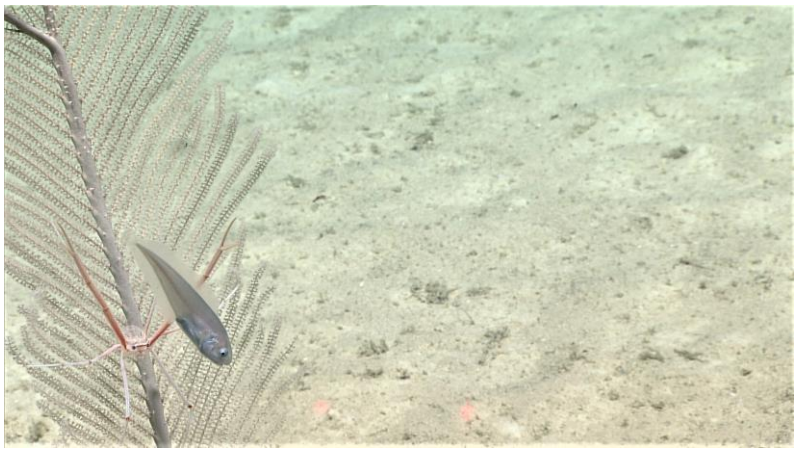
Scientific Name ***Callogorgia americana*** ALC061

Scientific Name Authorship **Cairns & Bayer, 2002**

Identified by Cordeiro, Raif

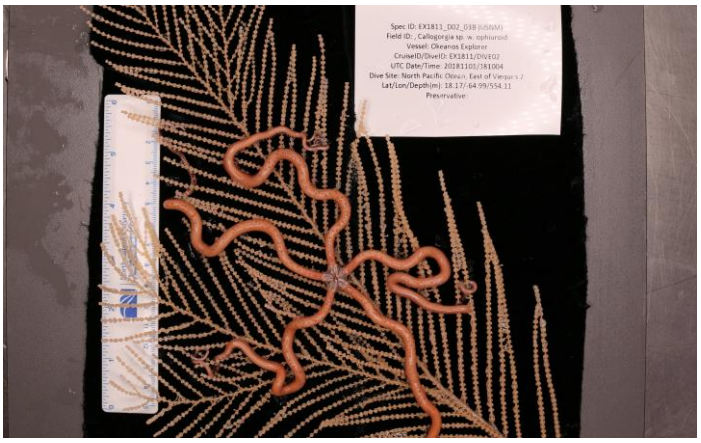


EX1811_IMG_20181101T180357Z_ROVHD



EX1811_IMG_20181101T180504Z_ROVHD

EX1811_IMG_20181101T180306Z_ROVHD



EX1811_IMG_20181101T181004Z_SMPSTL_D2_DIVE02_SPEC03BIO_L01

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Callogorgia*

ID Verification Status **confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive02
Region	US Caribbean
Locality	East of Vieques 2
Latitude	18.17000
Longitude	-64.99000
Depth (m)	554

Sample Information

Field Sample Number	EX1811_D02_03B
USNM#	1550626
DSCRTP Catalog Number	Not available

Description Grey-white, planar pinnate branching, sets of four opposing very small polyps

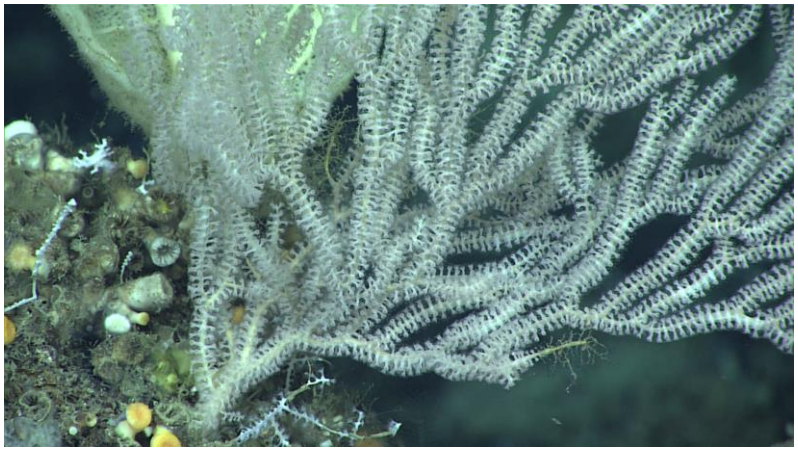
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Candidella imbricata*** ALC062

Scientific Name Authorship **(Johnson, 1862)**

Identified by Cairns, Stephen

Candidella_GM1085b_Candidella_510.jpg



Candidella_GM1075b_Candidella_512.jpg

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Candidella*
ID Verification Status	**confirmed by taxonomic analysis**

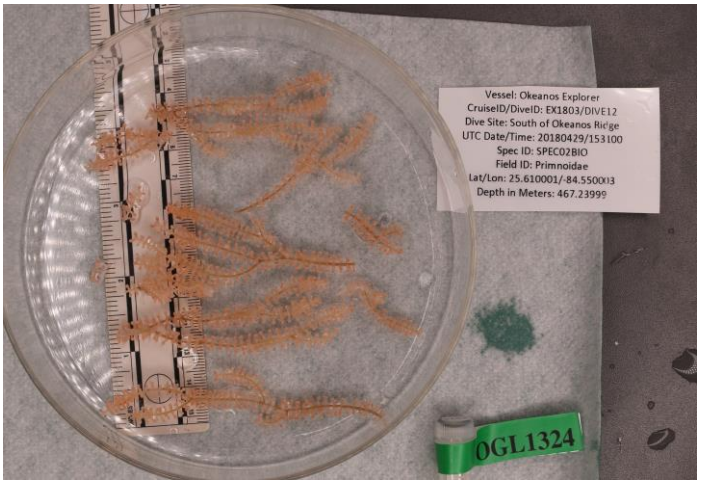
Metadata

SurveyID	EX1803
EventID	Dive12
Region	Gulf of Mexico
Locality	Okeanos Ridge
Latitude	25.61000
Longitude	-84.55000
Depth (m)	467

Sample Information

Field Sample Number	D12_SPEC02_BIO
USNM#	1507318
DSCRTP Catalog Number	971520

Description White, branching, small dense polyps



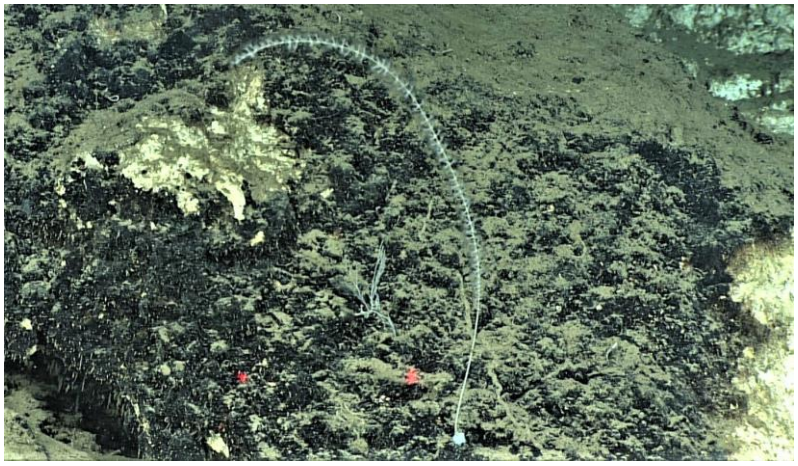
EX1803_IMG_20180429T153100Z_SMPSTL_D2_DIVE12_SPEC02BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Narella spectabilis*** ALC057

Scientific Name Authorship **Cairns & Bayer, 2003**

Identified by Cairns, Stephen



EX1811_IMG_20181112T172353Z_ROVHD

EX1811_IMG_20181112T172240Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive12
Region	US Caribbean
Locality	Mona Canyon East Wall
Latitude	18.54420
Longitude	-67.29380
Depth (m)	2265

Sample Information

Field Sample Number	EX1811_D12_02B
USNM#	1550645
DSCRTP Catalog Number	Not available

Description White, unbranched, pairs of opposing polyps

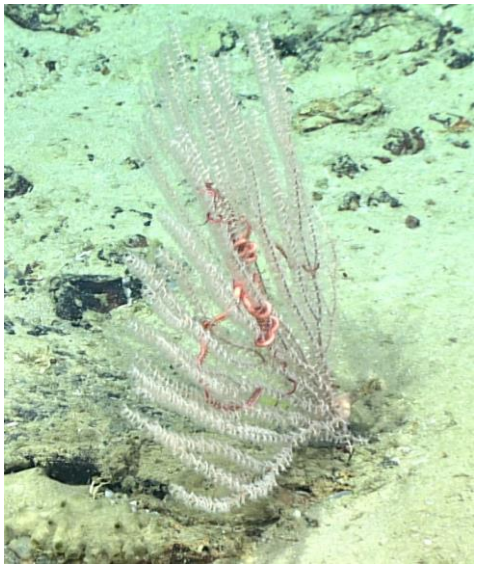
EX1811_IMG_20181112T173430Z_SMPSTL_D2_DIVE12_SPEC02BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Narella* sp.** ALC015

Scientific Name Authorship **Gray, 1870**

Identified by Salgado, Enrique



EX1806_IMG_20180614T185215Z_ROVHD.jpg

EX1806_IMG_20180614T185243Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive01
Region	Southeast US
Locality	Blake Escarpment North
Latitude	32.05354
Longitude	-76.84636
Depth (m)	1683

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	967834

Description White, dichotomous branching, dense polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Narella spectabilis*** ALC060

Scientific Name Authorship **Cairns & Bayer, 2003**

Identified by Cairns, Stephen

EX1803_IMG_20180426T161447Z_ROVHD

EX1803_IMG_20180426T161512Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*
ID Verification Status	**confirmed by taxonomic analysis**

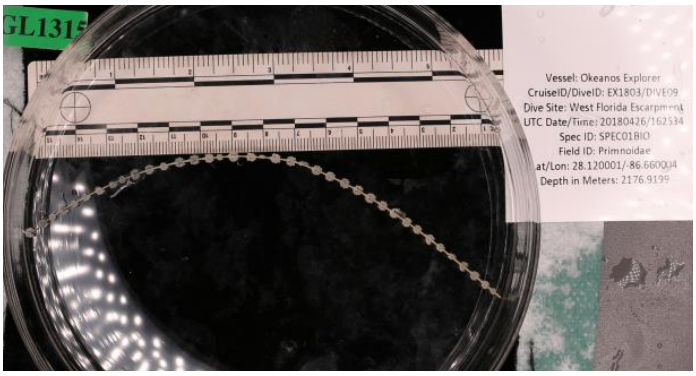
Metadata

SurveyID	EX1803
EventID	Dive09
Region	Gulf of Mexico
Locality	West Florida Escarpment
Latitude	28.12000
Longitude	-86.66000
Depth (m)	2177

Sample Information

Field Sample Number	D09_SPEC01_BIO
USNM#	1507291
DSCRTP Catalog Number	970632

Description White, unbranched, small pairs of opposing polyps



EX1803_IMG_20180426T162534Z_SMPSTL_D2_DIVE09_SPEC01BIO_L01

Order Alcyonacea (sea fans and soft corals)

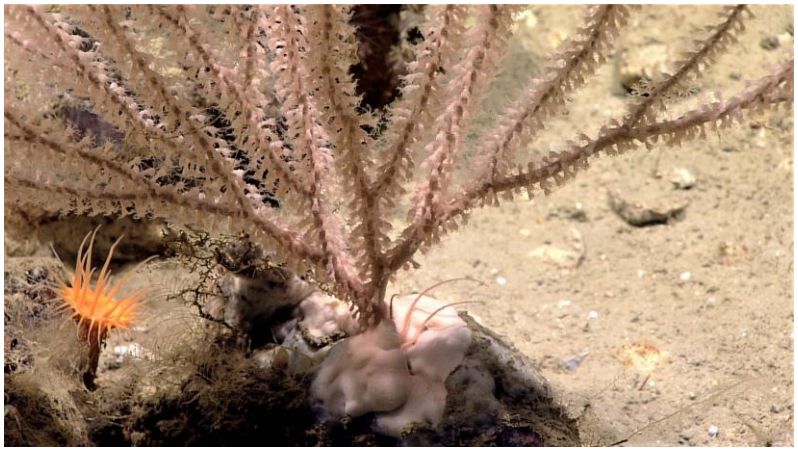
Scientific Name ***Narella pauciflora*** ALC035

Scientific Name Authorship **Deichmann, 1936**

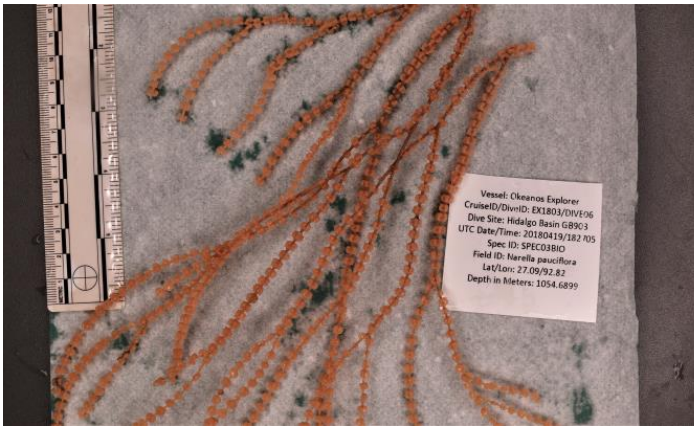
Identified by Wagner, Daniel

EX1803_IMG_20180419T181824Z_ROVHD

EX1803_IMG_20180419T181852Z_ROVHD



EX1803_IMG_20180419T182124Z_ROVHD



EX1803_IMG_20180419T182705Z_SMPSTL_D2_DIVE06_SPEC03BIO_L05

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1803
EventID	Dive06
Region	Gulf of Mexico
Locality	Hidalgo Basin GB903
Latitude	27.09000
Longitude	-92.82000
Depth (m)	1055

Sample Information

Field Sample Number	D06_SPEC03_BIO
USNM#	1507278
DSCRTP Catalog Number	970193

Description Grey-white, branching at base, sets of four opposing polyps

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Narella versluysi*** ALC055

Scientific Name Authorship **(Hickson, 1909)**

Identified by Cairns, Stephen

EX1806_IMG_20180620T162711Z_ROVHD.jpg

EX1806_IMG_20180620T162057Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*
ID Verification Status	**confirmed by taxonomic analysis**

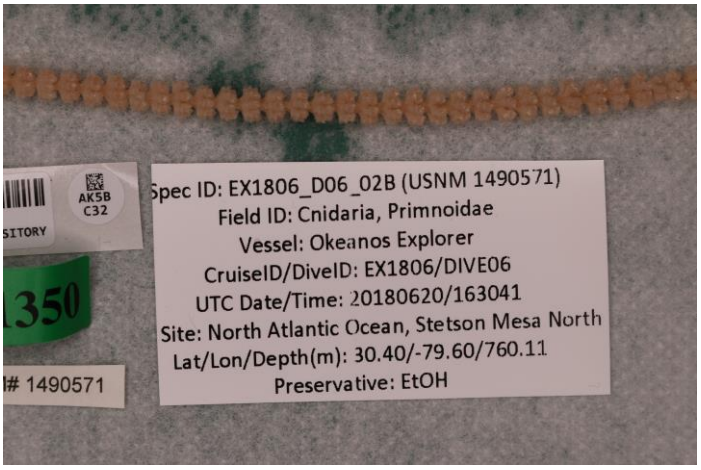
Metadata

SurveyID	EX1806
EventID	Dive06
Region	Southeast US
Locality	Stetson Mesa North
Latitude	30.40407
Longitude	-79.59904
Depth (m)	761

Sample Information

Field Sample Number	D06_SPEC02_BIO
USNM#	1490571
DSCRTP Catalog Number	968884

Description White, un-branched, small dense opposing polyps



EX1806_IMG_20180620T163041Z_SMPSTL_D2_DIVE06_SPEC02BIO_L04.jpg

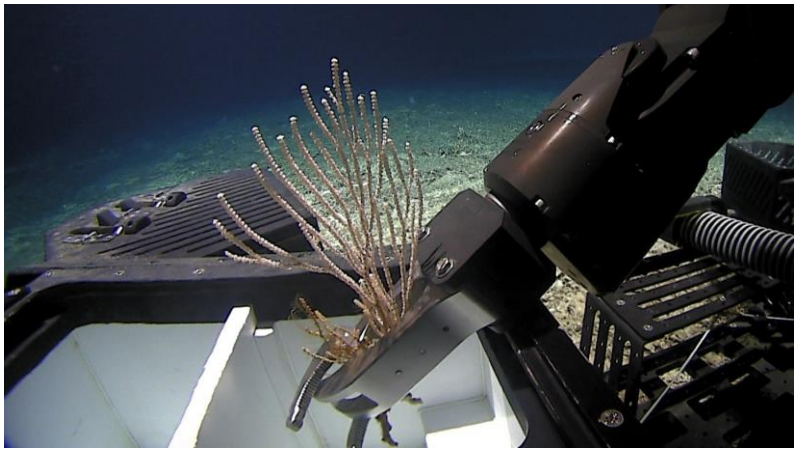
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Narella regularis*** ALC058

Scientific Name Authorship **(Duchassaing & Michelotti, 1860** Identified by Cairns, Stephen

EX1903L2_IMG_20190623T162754Z_ROVHD

EX1903L2_IMG_20190623T161625Z_ROVHD



EX1903L2_IMG_20190623T162934Z_D03_01B_04

EX1903L2_IMG_20190623T162956Z_SMPSTL_D03_01B_A02_L01

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Narella*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1903
EventID	Dive03
Region	Southeast US
Locality	Stetson Mesa South Scarp
Latitude	29.75260
Longitude	-79.57260
Depth (m)	868

Sample Information

Field Sample Number	EX1903L2_D03_01B_A
USNM#	1580776
DSCRTP Catalog Number	Not available

Description Grey, dichotomous branching from base, sets of four opposing small polyps

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Thouarella hilgendorfi*** ALC064

Scientific Name Authorship **Cairns, 2006**

Identified by Cairns, Stephen

EX1806_IMG_20180617T145335Z_ROVHD.jpg

EX1806_IMG_20180617T145519Z_ROVHD_exSitu.jpg

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Thouarella*
ID Verification Status	**confirmed by taxonomic analysis**

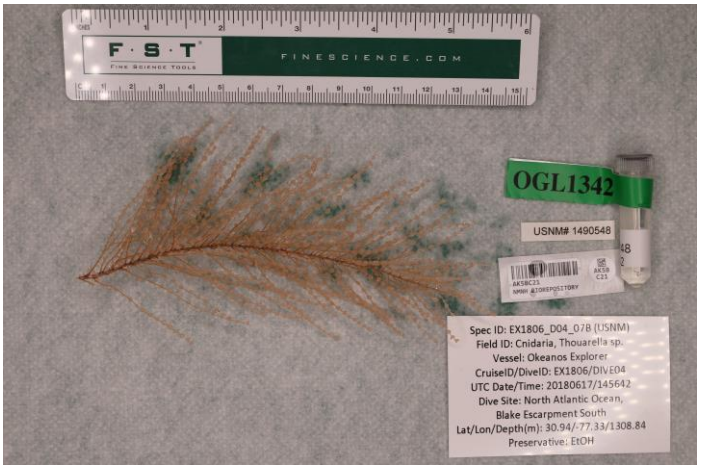
Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94007
Longitude	-77.32915
Depth (m)	1307

Sample Information

Field Sample Number	D04_SPEC07_BIO
USNM#	1490548
DSCRTP Catalog Number	967953

Description White, dense short bottlebrush branching, small opposing polyps



EX1806_IMG_20180617T145642Z_SMPSTL_D2_DIVE04_SPEC07BIO_L09.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Plumarella pourtalesii***

ALC063

Scientific Name Authorship **(Verrill, 1883)**

Identified by Cairns, Stephen

EX1806_IMG_20180622T152002Z_ROVHD.jpg

EX1806_IMG_20180622T173253Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Plumarella*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09341
Longitude	-77.16236
Depth (m)	893

Sample Information

Field Sample Number	D08_SPEC04_BIO
USNM#	1490608
DSCRTP Catalog Number	969500

Description White, complex planar branching, small opposing polyps

EX1806_IMG_20180622T173727Z_SMPSTL_D2_DIVE08_SPEC04BIO_L01.jpg

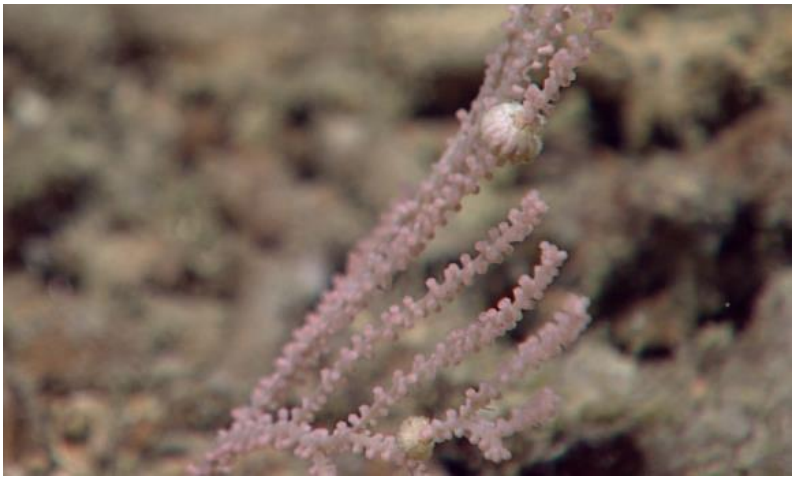
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Plumarella laxiramosa*** ALC059

Scientific Name Authorship **Cairns & Bayer, 2004**

Identified by Cairns, Stephen

EX1903L2_IMG_20190701T193910Z_ROVHD



EX1903L2_IMG_20190701T194106Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Plumarella*
ID Verification Status	**confirmed by taxonomic analysis**

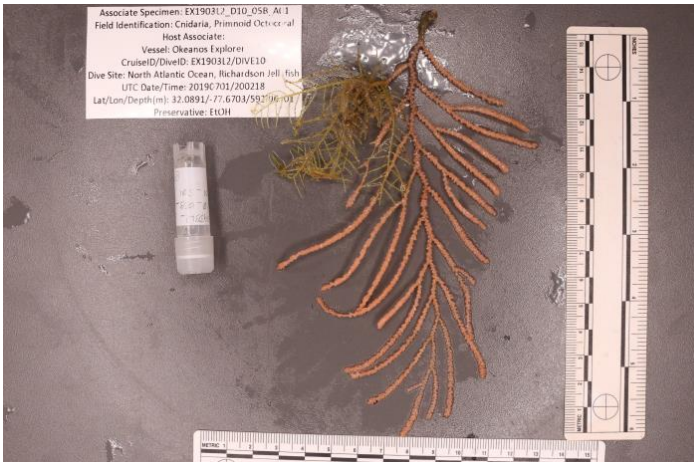
Metadata

SurveyID	EX1903
EventID	Dive10
Region	Southeast US
Locality	Richardson Jellyfish
Latitude	32.08910
Longitude	-77.67030
Depth (m)	593

Sample Information

Field Sample Number	EX1903L2_D10_05B_A
USNM#	1580845
DSCRTP Catalog Number	Not available

Description Pink, planar branching, alternating pairs of polyps



EX1903L2_IMG_20190701T200218Z_SMPSTL_D10_05B_A01_L01

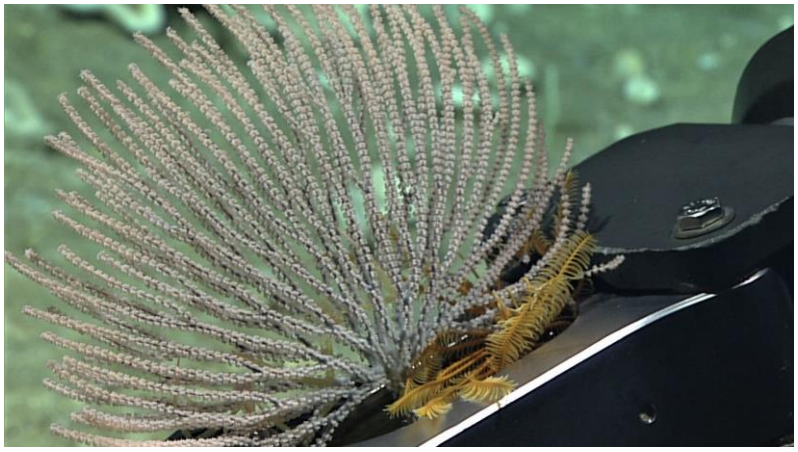
Order Alcyonacea (sea fans and soft corals)

Scientific Name ***Paracalyptrophora duplex*** ALC056

Scientific Name Authorship **Cairns & Bayer, 2004**

Identified by Auscavitch, Steve

EX1811_IMG_20181118T190545Z_ROVHD



EX1811_IMG_20181118T190931Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Primnoidae
Genus	*Paracalyptrophora*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive18
Region	US Caribbean
Locality	Desecheo Ridge
Latitude	18.39550
Longitude	-67.65400
Depth (m)	352

Sample Information

Field Sample Number	EX1811_D18_02B
USNM#	1550659
DSCRTP Catalog Number	Not available

Description Pink-grey, branching radially from main axis, groups of four opposing polyps

EX1811_IMG_20181118T191136Z_SMPSTL_D2_DIVE18_SPEC02BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Alcyonacea (Unknown)** ALC071

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

EX1811_IMG_20181115T170258Z_ROVHD

EX1811_IMG_20181115T170228Z_ROVHD

EX1811_IMG_20181115T170150Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Unknown
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive15
Region	US Caribbean
Locality	Pichincho Wall East
Latitude	18.37137
Longitude	-67.75518
Depth (m)	262

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow, thick branches, raised calices around full circumference

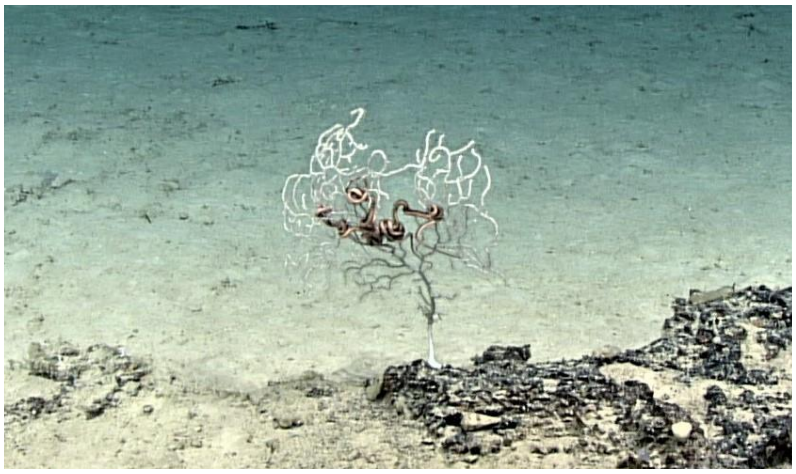
Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Alcyonacea (Unknown)** ALC073

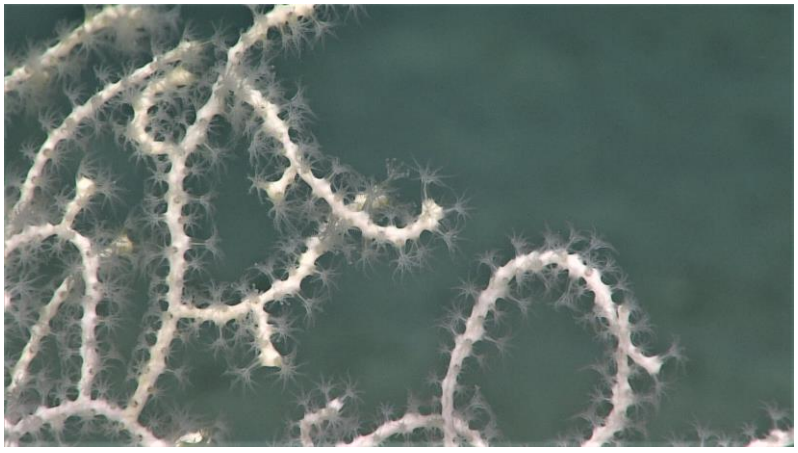
Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique



EX1811_IMG_20181101T161844Z_ROVHD

EX1811_IMG_20181101T161952Z_ROVHD



EX1811_IMG_20181101T162223Z_ROVHD

Taxonomy

Order	Alcyonacea
Family	Unknown
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive02
Region	US Caribbean
Locality	East of Vieques 2
Latitude	18.16557
Longitude	-64.99116
Depth (m)	600

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Lilac-white, complex planar branching, alternating polyps

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Alcyonacea (Unknown)** ALC065

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

EX1806_IMG_20180624T182129Z_ROVHD.jpg

EX1806_IMG_20180624T182008Z_ROVHD.jpg

Taxonomy

Order	Alcyonacea
Family	Unknown
Genus	*Unknown*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive10
Region	Southeast US
Locality	Cape Fear
Latitude	33.57414
Longitude	-76.46511
Depth (m)	388

Sample Information

Field Sample Number	D10_SPEC05_BIO
USNM#	1490637
DSCRTP Catalog Number	969851

Description Yellow-orange, complex and dense arborescent branching, elongated polyps

EX1806_IMG_20180624T182849Z_SMPSTL_D2_DIVE10_SPEC05BIO_L02.jpg

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name ***Stylaster erubescens*** STY004

Scientific Name Authorship **Pourtales, 1868**

Identified by Cairns, Stephen

EX1711_IMG_20171203T174455Z_ROVHD.jpg

EX1711_IMG_20171203T174551Z_ROVHD.jpg

Taxonomy

Order	Anthoathecata
Family	Stylasteridae
Genus	*Stylaster*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1711
EventID	Dive04
Region	Gulf of Mexico
Locality	Long Mounds
Latitude	26.44600
Longitude	-84.76060
Depth (m)	402

Sample Information

Field Sample Number	D04_SPEC01_BIO
USNM#	1482973
DSCRTP Catalog Number	949512

Description White, complex planar branching, very small polyps

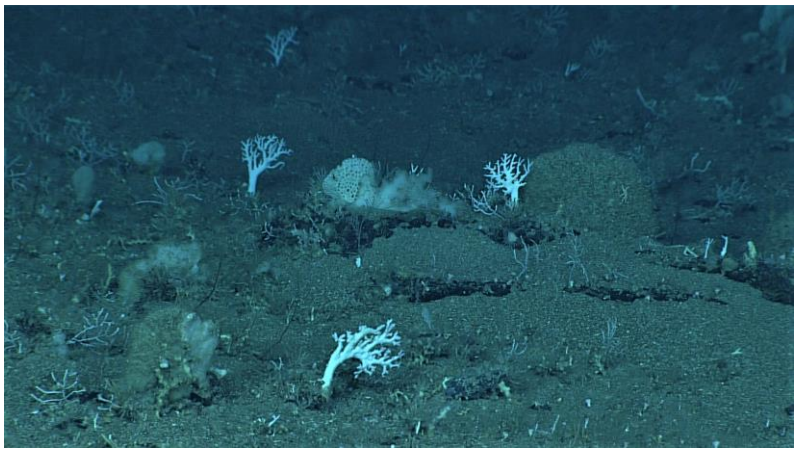
EX1711_IMG_20171203T180022Z_SMPSTL_D2_DIVE04_SPEC01BIO_L04.jpg

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name ***Stylaster erubescens*** STY001

Scientific Name Authorship **Pourtales, 1868**

Identified by Cairns, Stephen



EX1903L2_IMG_20190628T183221Z_ROVHD

EX1903L2_IMG_20190628T183318Z_ROVHD

Taxonomy

Order	Anthoathecata
Family	Stylasteridae
Genus	*Stylaster*
ID Verification Status	**confirmed by taxonomic analysis**

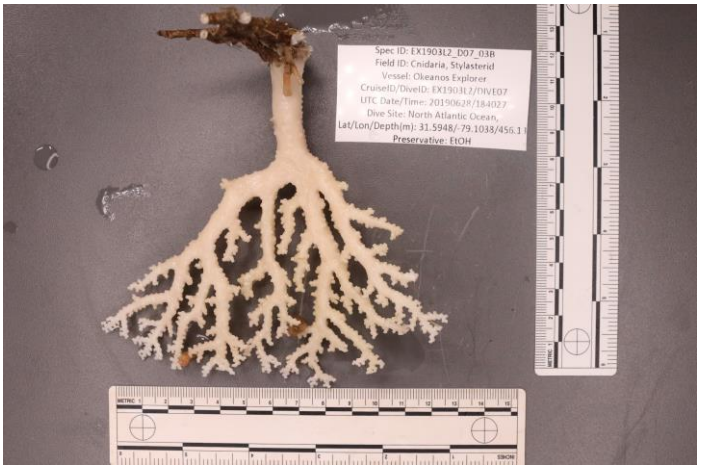
Metadata

SurveyID	EX1903
EventID	Dive07
Region	Southeast US
Locality	South Carolina Shark Rock
Latitude	31.59480
Longitude	-79.10380
Depth (m)	456

Sample Information

Field Sample Number	EX1903L2_D07_03B
USNM#	1580813
DSCRTP Catalog Number	Not available

Description White, planar branching, small laterally compressed polyps



EX1903L2_IMG_20190628T184027Z_SMPSTL_D07_03B_L01

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name ***Stylaster laevigatus*** STY003

Scientific Name Authorship **Cairns, 1986**

Identified by Cairns, Stephen

EX1811_IMG_20181115T162318Z_ROVHD

EX1811_IMG_20181115T162536Z_ROVHDcrop

Taxonomy

Order	Anthoathecata
Family	Stylasteridae
Genus	*Stylaster*
ID Verification Status	**confirmed by taxonomic analysis**

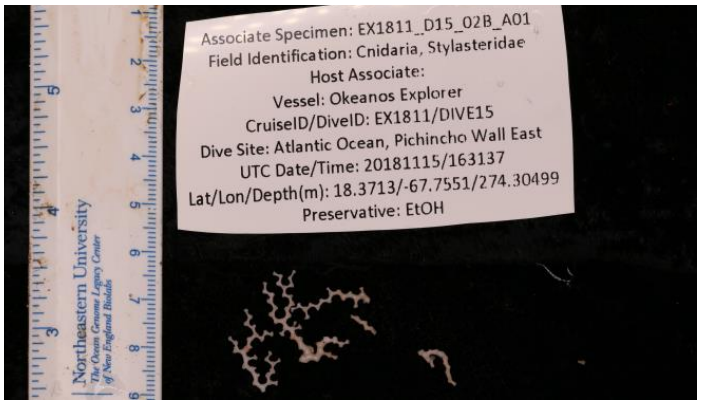
Metadata

SurveyID	EX1811
EventID	Dive15
Region	US Caribbean
Locality	Pichincho Wall East
Latitude	18.37130
Longitude	-67.75510
Depth (m)	274

Sample Information

Field Sample Number	EX1811_D15_02B_A01
USNM#	1550693
DSCRTP Catalog Number	Not available

Description White, planar branching, small



EX1811_IMG_20181115T163137Z_SMPSTL_D2_DIVE15_SPEC02BIO_A01_L01

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name ***Crypthelia insolita***

STY005

Scientific Name Authorship **Cairns, 1986**

Identified by Cairns, Stephen

EX1811_IMG_20181101T154940Z_ROVHD

EX1811_IMG_20181101T155432Z_ROVHD

Taxonomy

Order	Anthoathecata
Family	Stylasteridae
Genus	*Crypthelia*
ID Verification Status	**confirmed by taxonomic analysis**

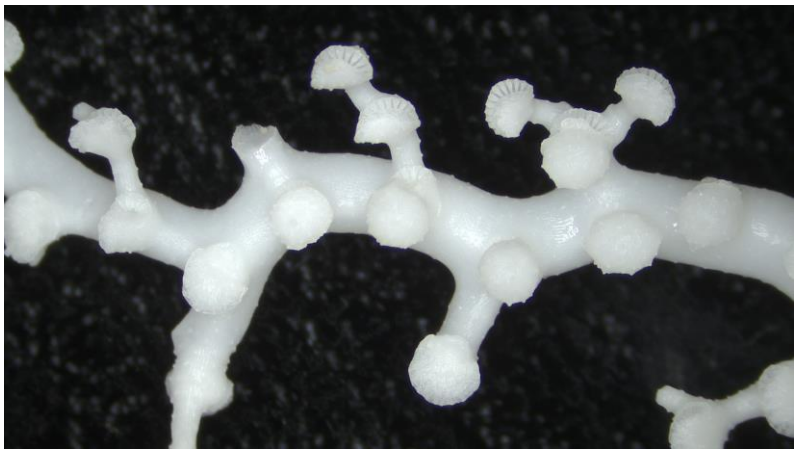
Metadata

SurveyID	EX1811
EventID	Dive02
Region	US Caribbean
Locality	East of Vieques 2
Latitude	18.17000
Longitude	-64.99000
Depth (m)	603

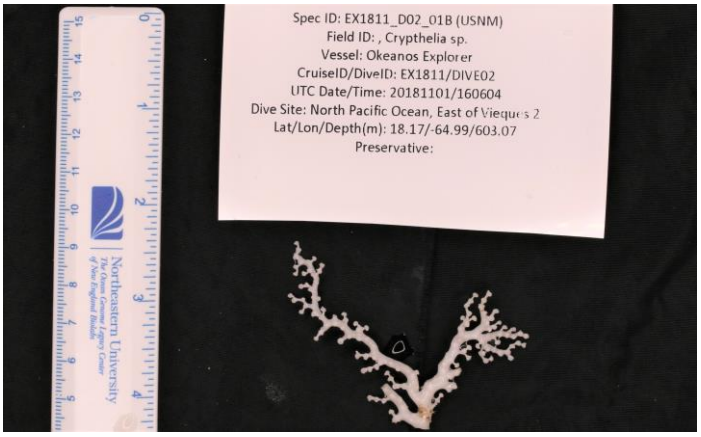
Sample Information

Field Sample Number	EX1811_D02_01B
USNM#	1550624
DSCRTP Catalog Number	Not available

Description White, planar branching, small laterally compressed polyps



EX1811_IMG_20181101T160604Z_MICRO_D2_DIVE02_SPEC01BIO_M01



EX1811_IMG_20181101T160604Z_SMPSTL_D2_DIVE02_SPEC01BIO_L01

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name ***Distichophora* sp.** STY002

Scientific Name Authorship **Lamarck, 1816**

Identified by Salgado, Enrique

EX1811_IMG_20181116T132939Z_ROVHD

EX1811_IMG_20181116T132939Z_ROVHD_crop

Taxonomy

Order	Anthoathecata
Family	Stylasteridae
Genus	*Distichopora*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive16
Region	US Caribbean
Locality	Desecheo Island NW
Latitude	18.51794
Longitude	-67.83257
Depth (m)	434

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow, planar finger-like branching, small flush polyps

Specimen not collected

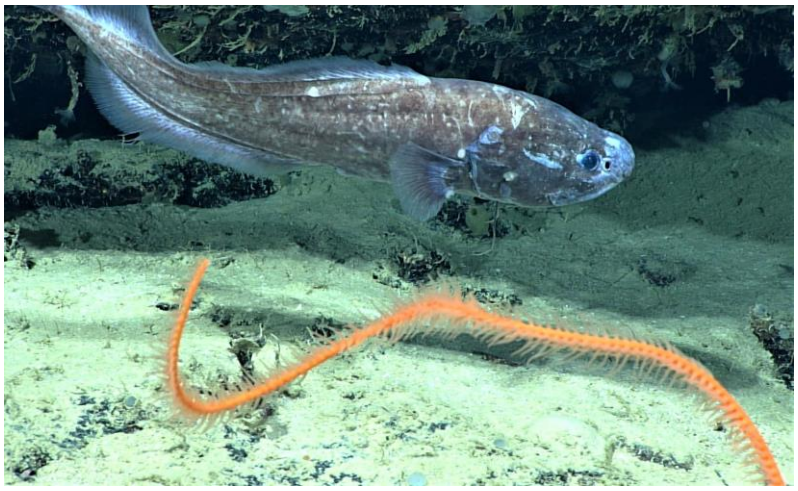
Order Antipatharia (black corals)

Scientific Name ***Stichopathes* sp.**

ANT004

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



EX1806_IMG_20180617T160633Z_ROVHD.jpg

EX1806_IMG_20180617T154952Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Antipathidae
Genus	*Stichopathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94006
Longitude	-77.32976
Depth (m)	1279

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	967993

Description Brown-orange, un-branched, thick polyps.

Specimen not collected

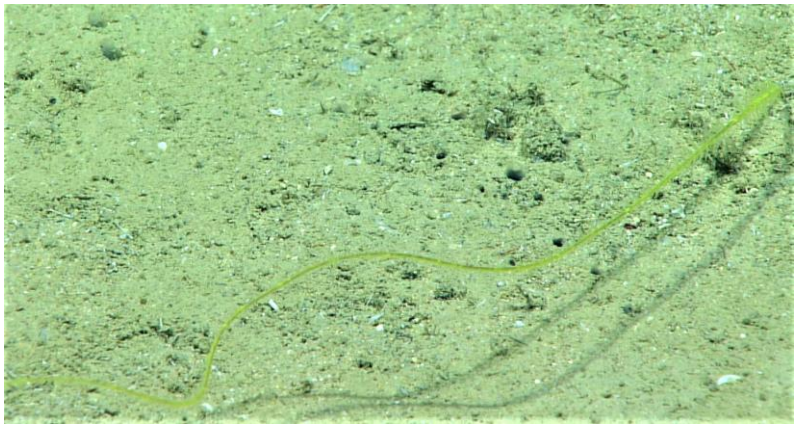
Order Antipatharia (black corals)

Scientific Name ***Stichopathes* sp.**

ANT003

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



EX1806_IMG_20180617T133655Z_ROVHD.jpg

EX1806_IMG_20180617T133751Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Antipathidae
Genus	*Stichopathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94017
Longitude	-77.32857
Depth (m)	1321

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	967914

Description Yellow-green, un-branched, clear polyps.

Specimen not collected

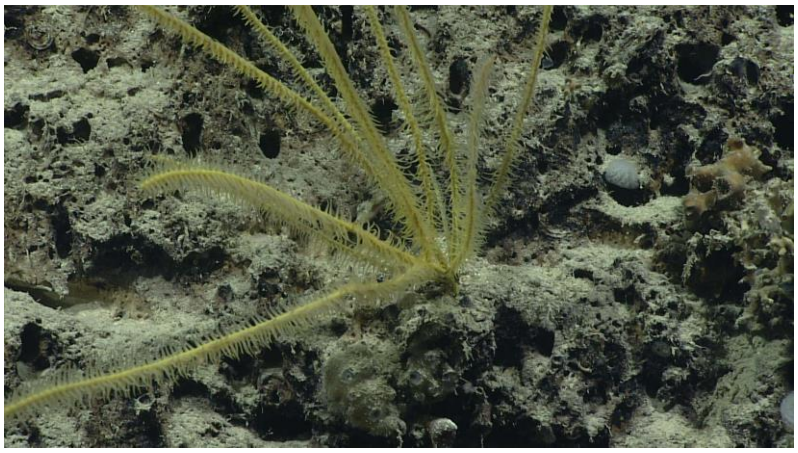
Order Antipatharia (black corals)

Scientific Name ***Allopathes denhartogi***

ANT001

Scientific Name Authorship **Opresko, 2003**

Identified by Opresko, Dennis



EX1711_IMG_20171130T194932Z_ROVHDSPEC03BIO.jpg

EX1711_IMG_20171130T195402Z_ROVHDSPEC03BIO.jpg

Taxonomy

Order	Antipatharia
Family	Antipathidae
Genus	*Allopathes*

ID Verification Status **confirmed by taxonomic analysis**

Metadata

SurveyID	EX1711
EventID	Dive01
Region	Gulf of Mexico
Locality	South Reed
Latitude	24.65620
Longitude	-83.90790
Depth (m)	701

Sample Information

Field Sample Number	D01_SPEC03_BIO
USNM#	1482944
DSCRTP Catalog Number	948996

Description Yellow, branching from base, large polyps.

EX1711_IMG_20171130T195641Z_SMPSTL_D2_DIVE01_SPEC03BIO_L03.jpg

Order Antipatharia (black corals)

Scientific Name ***Aphanipathes* sp.**

ANT002

Scientific Name Authorship **Ehrenberg, 1834**

Identified by Opresko, Dennis

EX1803_IMG_20180429T180430Z_ROVHD

EX1803_IMG_20180429T175940Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Antipathidae
Genus	*Aphanipathes*
ID Verification Status	**confirmed by taxonomic analysis**

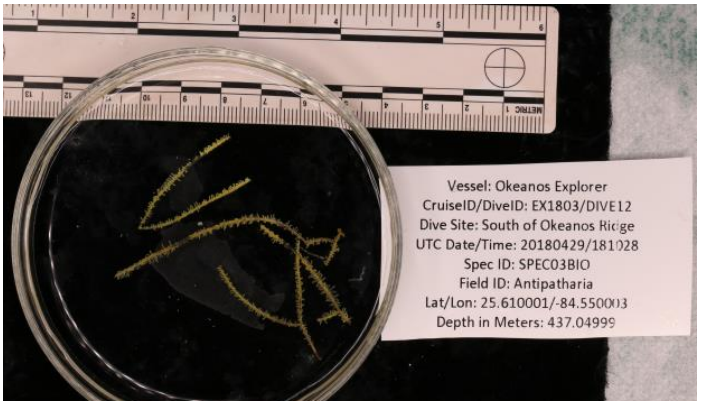
Metadata

SurveyID	EX1803
EventID	Dive12
Region	Gulf of Mexico
Locality	Okeanos Ridge
Latitude	25.61000
Longitude	-84.55000
Depth (m)	437

Sample Information

Field Sample Number	D12_SPEC03_BIO
USNM#	1507320
DSCRTP Catalog Number	971470

Description Yellow, simple branching from base, small bilaterally opposing polyps



EX1803_IMG_20180429T181028Z_SMPSTL_D2_DIVE12_SPEC03BIO_L01

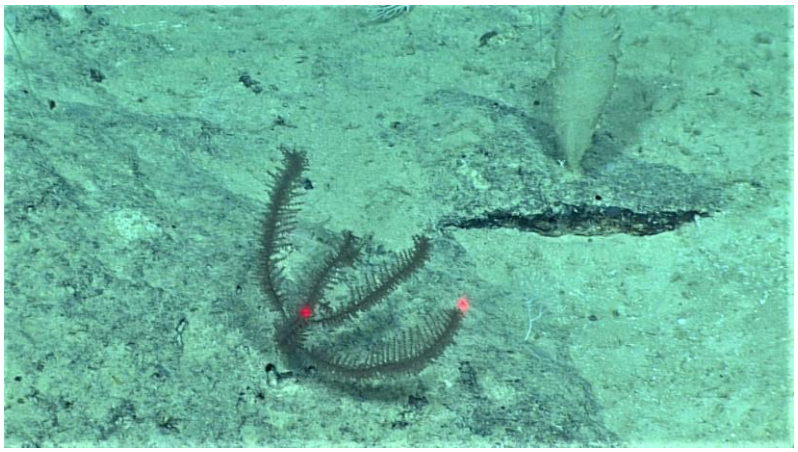
Order Antipatharia (black corals)

Scientific Name ***Trissopathes* sp.**

ANT019

Scientific Name Authorship **Opresko, 2003**

Identified by Opresko, Dennis



EX1811_IMG_20181117T135234Z_ROVHD

EX1811_IMG_20181117T135320Z_ROVHD

EX1811_IMG_20181117T135413Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Cladopathidae
Genus	*Trissopathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive17
Region	US Caribbean
Locality	Mona South Ridge
Latitude	17.94720
Longitude	-67.88930
Depth (m)	1193

Sample Information

Field Sample Number	EX1811_D17_01B
USNM#	1550656
DSCRTP Catalog Number	Not available

Description Red-brown, branching from base, small spindle polyps

EX1811_IMG_20181117T140037Z_SMPSTL_D2_DIVE17_SPEC01BIO_L01

Order Antipatharia (black corals)

Scientific Name ***Trissopathes* sp.**

ANT022

Scientific Name Authorship **Opresko, 2003**

Identified by Salgado, Enrique

EX1907_IMG_20191119T144013Z_ROVHD

EX1907_IMG_20191119T144102Z_ROVHD

EX1907_IMG_20191119T202631Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Cladopathidae
Genus	*Trissopathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive12
Region	Southeast US
Locality	'Berg Bits' SW of Dry Tortug
Latitude	23.98390
Longitude	-83.38647
Depth (m)	970

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Light-brown, bottlebrush branching, small spindle polyps

Specimen not collected

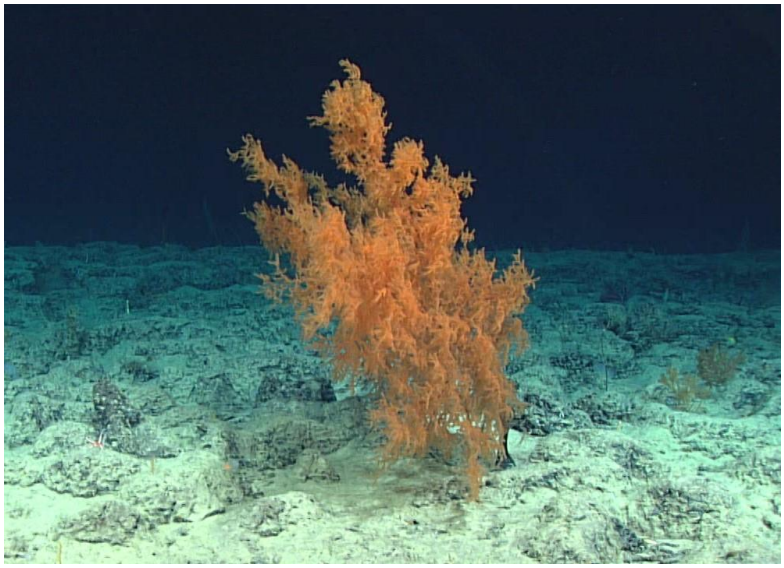
Order Antipatharia (black corals)

Scientific Name ***Leiopathes glaberrima***

ANT005

Scientific Name Authorship **(Esper, 1788)**

Identified by Opresko, Dennis



EX1806_IMG_20180617T185528Z_ROVHD.jpg

EX1806_IMG_20180619T162802Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Leiopathidae
Genus	*Leiopathes*
ID Verification Status	**confirmed by taxonomic analysis**

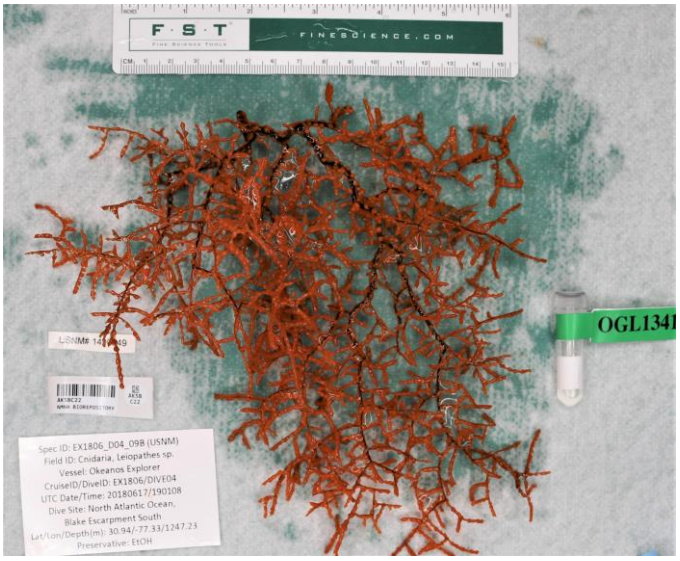
Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94151
Longitude	-77.33010
Depth (m)	1248

Sample Information

Field Sample Number	D04_SPEC09_BIO
USNM#	1490549
DSCRTP Catalog Number	968429

Description Brown-orange, complex branching, small dense polyps.



EX1806_IMG_20180617T190108Z_SMPSTL_D2_DIVE04_SPEC09BIO_L03.jpg

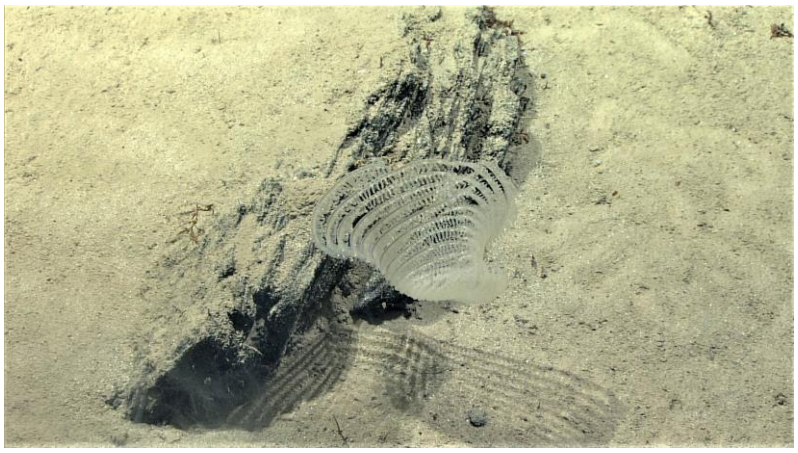
Order Antipatharia (black corals)

Scientific Name ***Abyssopathes lyra***

ANT009

Scientific Name Authorship **(Brook, 1889)**

Identified by Opresko, Dennis



EX1811_IMG_20181119T163543Z_ROVHD

EX1811_IMG_20181119T163543Z_ROVHD

EX1811_IMG_20181119T163017Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Abyssopathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive19
Region	US Caribbean
Locality	Mona Seamount
Latitude	19.27860
Longitude	-67.68390
Depth (m)	4966

Sample Information

Field Sample Number	EX1811_D19_02B
USNM#	1550662
DSCRTP Catalog Number	Not available

Description Translucent-white, pinnate curled branches forming funnel

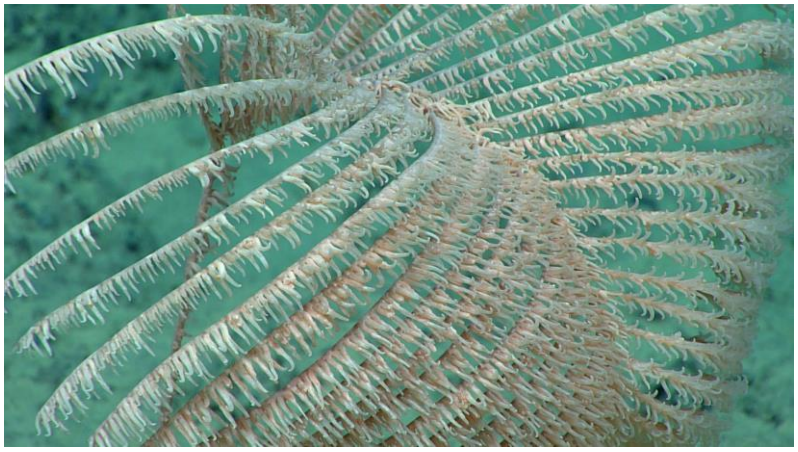
EX1811_IMG_20181119T164139Z_SMPSTL_D2_DIVE19_SPEC02BIO_L02

Order Antipatharia (black corals)

Scientific Name ***Alternatipathes* sp.** ANT010

Scientific Name Authorship **Molodtsova & Opresko, 2017** Identified by Salgado, Enrique

EX1806_IMG_20180617T165556Z_ROVHD.jpg



EX1806_IMG_20180617T165547Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Alternatipathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94020
Longitude	-77.33020
Depth (m)	1248

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968117

Description Pink, simple bifurcated branching, long stipe with polyps, dense polyps

Specimen not collected

Order Antipatharia (black corals)

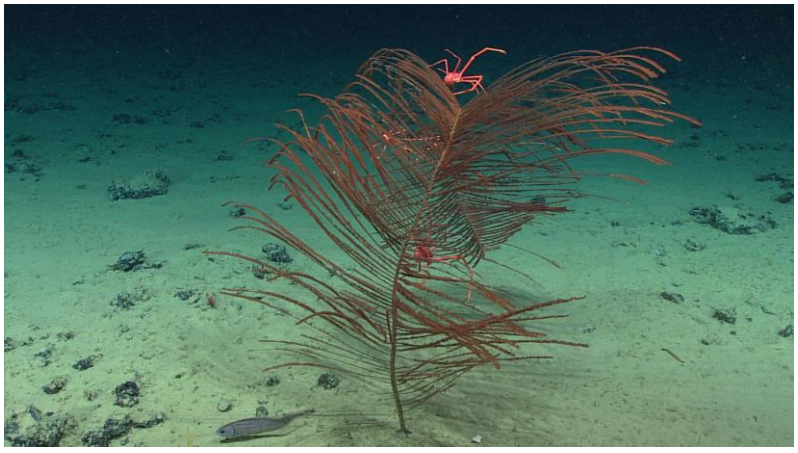
Scientific Name ***Bathypathes* sp.** ANT013

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique

EX1806_IMG_20180622T133427Z_ROVHD.jpg

EX1806_IMG_20180622T133504Z_ROVHD.jpg



SE1061a_Bathypathes_890.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Bathypathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09292
Longitude	-77.15948
Depth (m)	1006

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969344

Description Red, simple bifurcated branching, long stipe, small dense polyps

Specimen not collected

Order Antipatharia (black corals)

Scientific Name ***Bathypathes* sp.**

ANT014

Scientific Name Authorship **Brook, 1889**

Identified by Opresko, Dennis

EX1806_IMG_20180617T134543Z_ROVHD.jpg

EX1806_IMG_20180617T134636Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Bathypathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94012
Longitude	-77.32859
Depth (m)	1321

Sample Information

Field Sample Number	D04_SPEC02_BIO
USNM#	1490547
DSCRTP Catalog Number	967918

Description Pink, simple bifurcated branching, small dense polyps

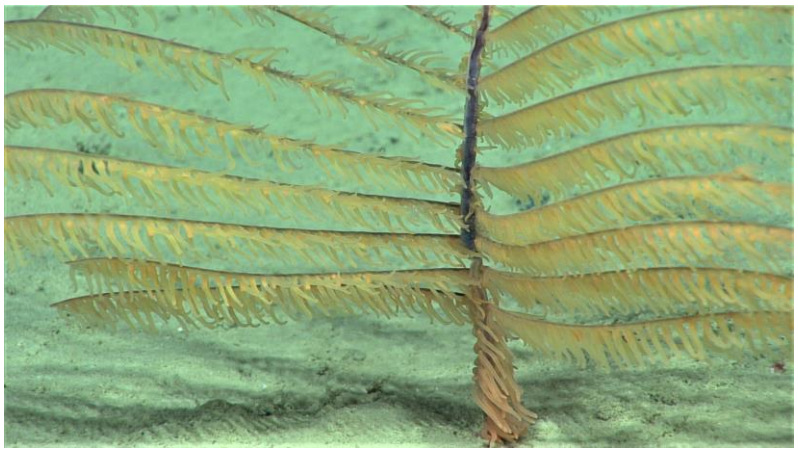
EX1806_IMG_20180617T140638Z_SMPSTL_D2_DIVE04_SPEC02BIO_L47.jpg

Order Antipatharia (black corals)

Scientific Name ***Bathypathes* sp.** ANT012

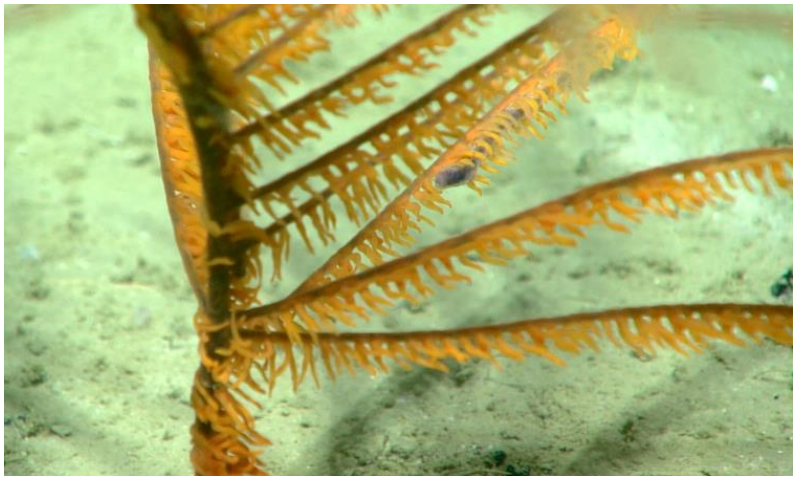
Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



SE1060b_Bathypathes_966.jpg

SE1054a_Bathypathes_966.jpg



SE1054b_Bathypathes_966.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Bathypathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09333
Longitude	-77.16100
Depth (m)	966

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969539

Description Orange, simple bifurcated branching, small dense polyps, basal tentacles.

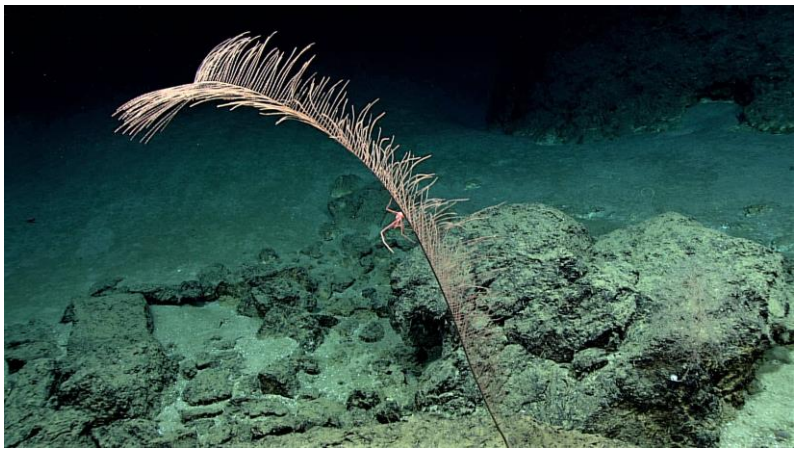
Specimen not collected

Order Antipatharia (black corals)

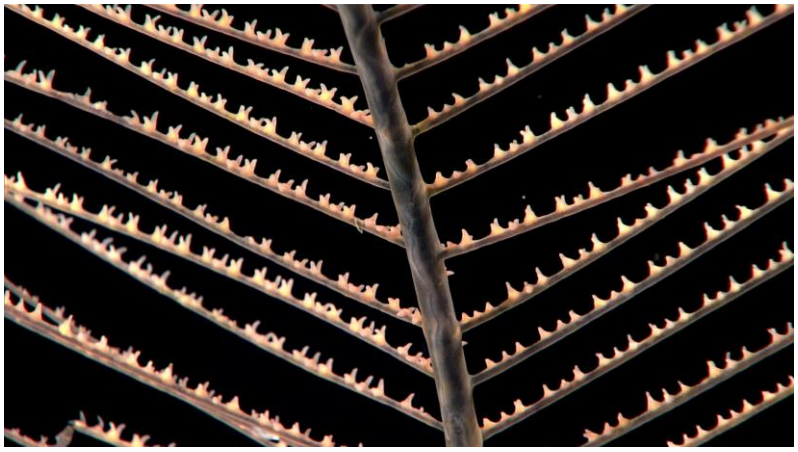
Scientific Name ***Bathypathes* sp.** ANT011

Scientific Name Authorship **Brook, 1889**

Identified by Wagner, Daniel



EX1803_IMG_20180425T191343Z_ROVHD



EX1803_IMG_20180425T191551Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Bathypathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1803
EventID	Dive08
Region	Gulf of Mexico
Locality	DeSoto Canyon
Latitude	28.29000
Longitude	-87.22000
Depth (m)	2325

Sample Information

Field Sample Number	D08_SPEC03_BIO
USNM#	1507290
DSCRTP Catalog Number	970407

Description Orange-brown, pinnate baranching, small unidirectional polyps

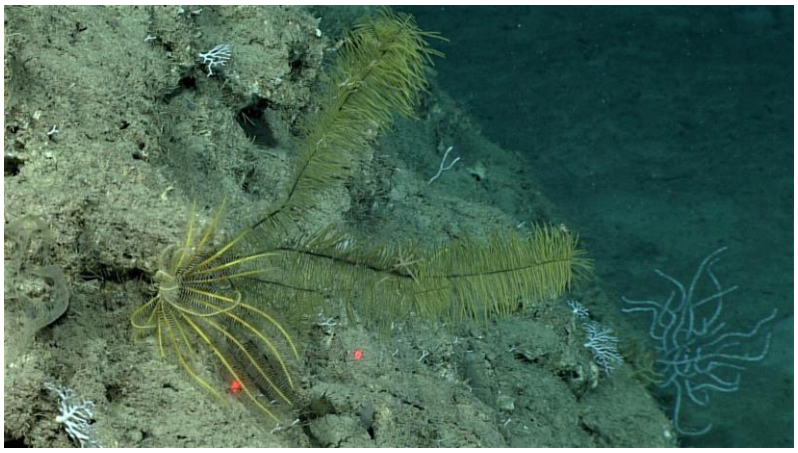
EX1803_IMG_20180425T192206Z_SMPSTL_D2_DIVE08_SPEC03BIO_L03

Order Antipatharia (black corals)

Scientific Name ***Elatopathes* sp.** ANT006

Scientific Name Authorship **Opresko, 2004**

Identified by Salgado, Enrique



EX1811_IMG_20181107T212436Z_ROVHD

EX1811_IMG_20181107T212421Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Elatopathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive07
Region	US Caribbean
Locality	Caja de Muertos
Latitude	17.82770
Longitude	-66.56490
Depth (m)	408

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow, simple branching at base with pinnate secondary branches, small polyps

Specimen not collected

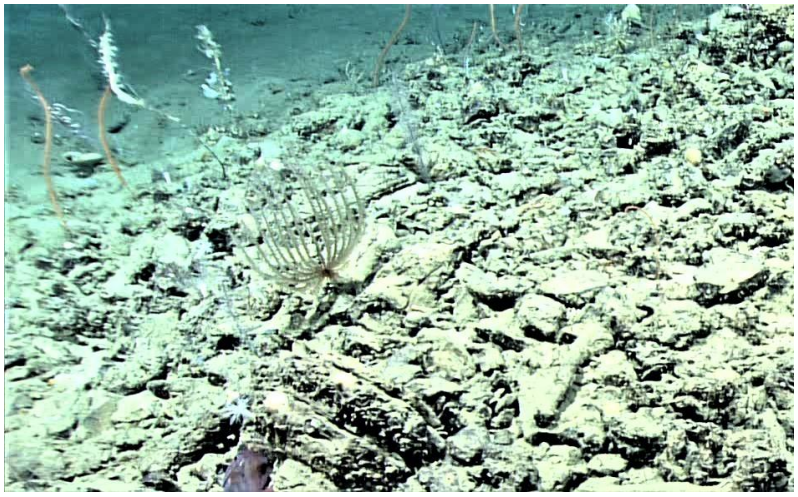
Order Antipatharia (black corals)

Scientific Name ***Heteropathes americana***

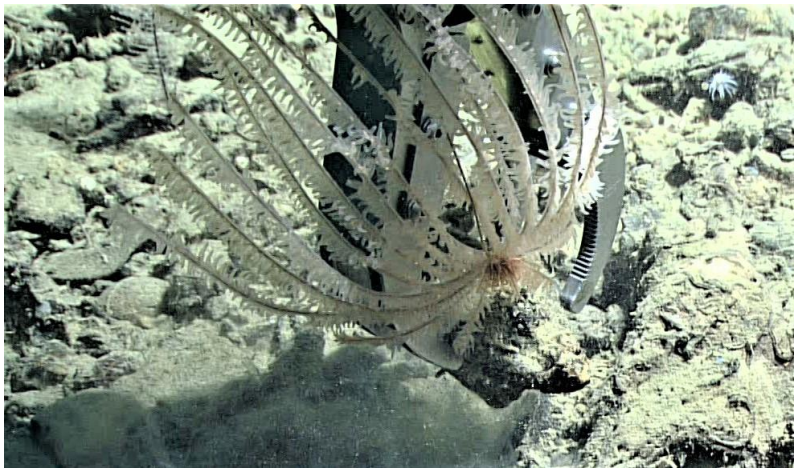
ALC070

Scientific Name Authorship **(Opresko, 2003)**

Identified by Opresko, Dennis



EX1711_IMG_20171216T175900Z_ROVHD



EX1711_IMG_20171216T181513Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Heteropathes*
ID Verification Status	**confirmed by taxonomic analysis**

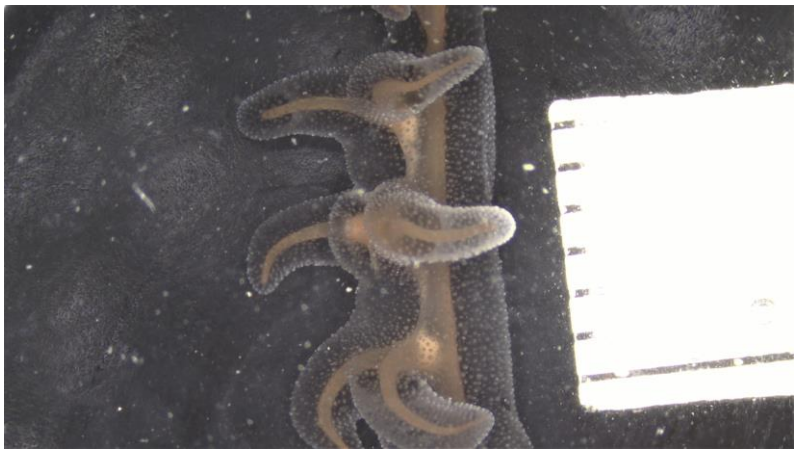
Metadata

SurveyID	EX1711
EventID	Dive13
Region	Gulf of Mexico
Locality	Tunica Mound
Latitude	27.71000
Longitude	-92.22000
Depth (m)	402

Sample Information

Field Sample Number	D13_SPEC02_GEO_A01
USNM#	1483032
DSCRTP Catalog Number	950084

Description brown-translucent, branches from one point.



EX1711_IMG_20171216T181731Z_MICRO_D2_DIVE13_SPEC02GEO_A01_M01

EX1711_IMG_20171216T181731Z_SMPSTL_D2_DIVE13_SPEC02GEO_L02

Order Antipatharia (black corals)

Scientific Name ***Lillipathes* sp.**

ANT008

Scientific Name Authorship **Opresko, 2002**

Identified by Salgado, Enrique

EX1711_IMG_20171217T212852Z_ROVHD.jpg

EX1711_IMG_20171217T212940Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Lillipathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1711
EventID	Dive14
Region	Gulf of Mexico
Locality	Penchant Basin
Latitude	27.66330
Longitude	-91.35080
Depth (m)	761

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	950105

Description Purple-grey, perpendicular branches with secondary pinnate short branches, small polyps.

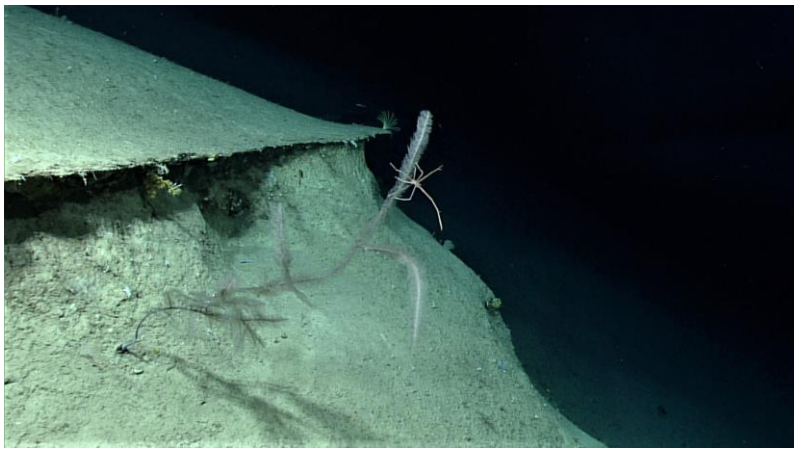
Specimen not collected

Order Antipatharia (black corals)

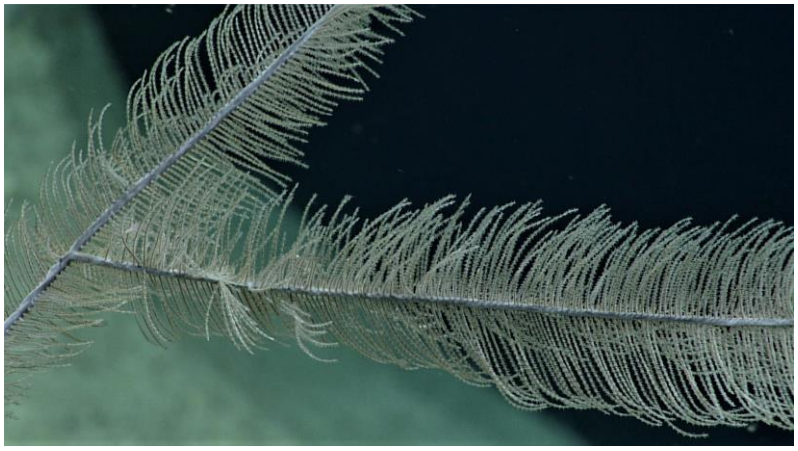
Scientific Name ***Parantipathes tetrasticha*** ANT007

Scientific Name Authorship **(Pourtalès, 1868)**

Identified by Opresko, Dennis



EX1811_IMG_20181104T192345Z_ROVHD



EX1811_IMG_20181104T191603Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Parantipathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive04
Region	US Caribbean
Locality	St. Croix Amphitheater
Latitude	17.58970
Longitude	-64.88740
Depth (m)	447

Sample Information

Field Sample Number	EX1811_D04_02B
USNM#	1550628
DSCRTP Catalog Number	Not available

Description Grey-brown, simple perpendicular branches with short pinnate branches, very small polyps

EX1811_IMG_20181104T193116Z_SMPSTL_D2_DIVE04_SPEC02BIO_L05

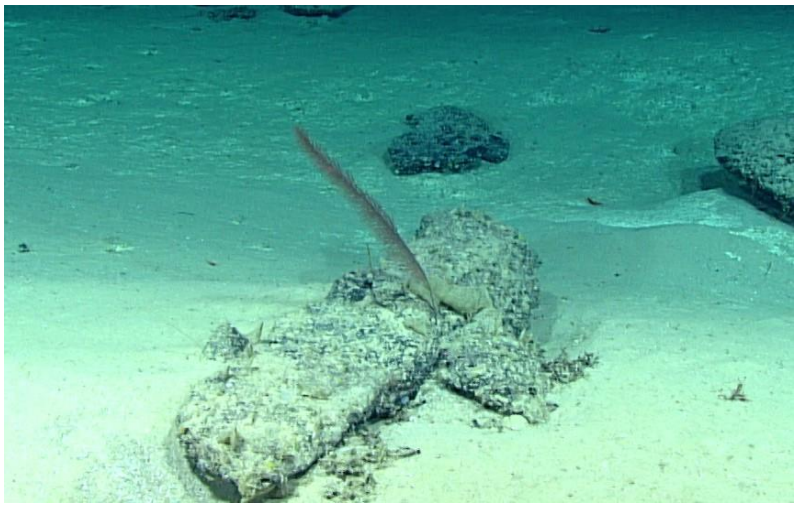
Order Antipatharia (black corals)

Scientific Name ***Parantipathes* sp.**

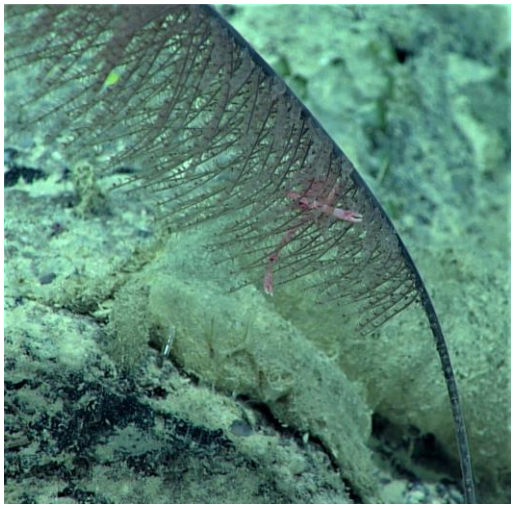
ANT018

Scientific Name Authorship **Brook, 1889**

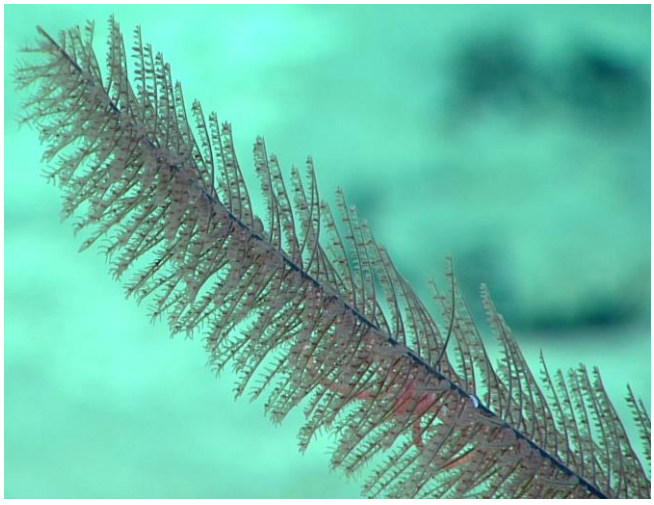
Identified by Salgado, Enrique



EX1806_IMG_20180617T141304Z_ROVHD.jpg



EX1806_IMG_20180617T141351Z_ROVHD.jpg



EX1806_IMG_20180617T141443Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Parantipathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94004
Longitude	-77.32870
Depth (m)	1319

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	967919

Description Brown-purple, simple pinnate branching, small dense polyps.

Specimen not collected

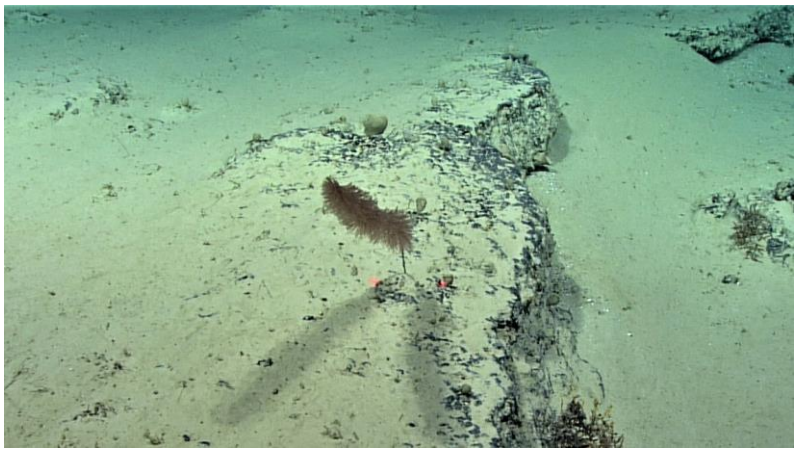
Order Antipatharia (black corals)

Scientific Name ***Parantipathes* sp.**

ANT020

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



EX1903L2_IMG_20190630T173715Z_ROVHD

EX1903L2_IMG_20190630T173742Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Parantipathes*

ID Verification Status **unconfirmed**

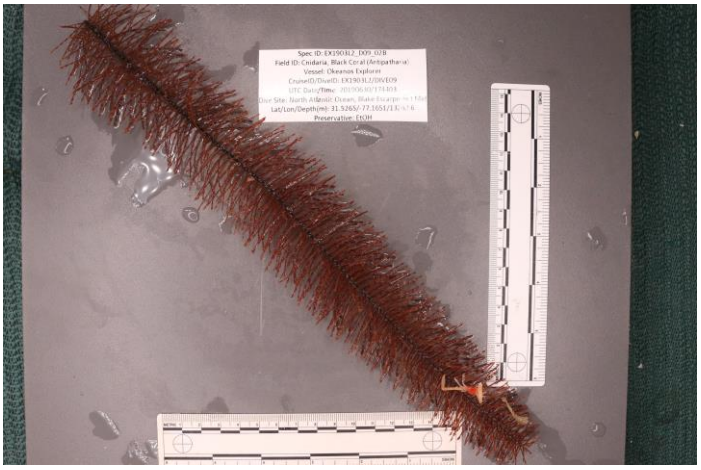
Metadata

SurveyID	EX1903
EventID	Dive09
Region	Southeast US
Locality	Blake Escarpmetn Mid
Latitude	31.52650
Longitude	-77.16510
Depth (m)	1326

Sample Information

Field Sample Number	EX1903L2_D09_02B
USNM#	1580831
DSCRTP Catalog Number	Not available

Description Pink-brown, dense pinnate branching, bottlebrush



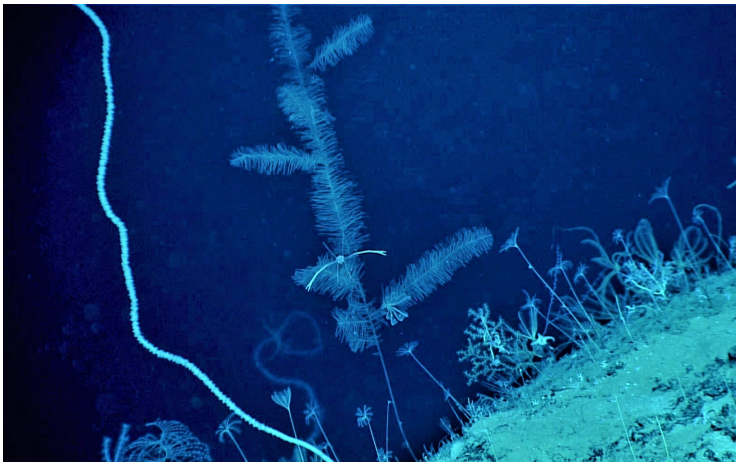
EX1903L2_IMG_20190630T174403Z_SMPSTL_D09_02B_L01

Order Antipatharia (black corals)

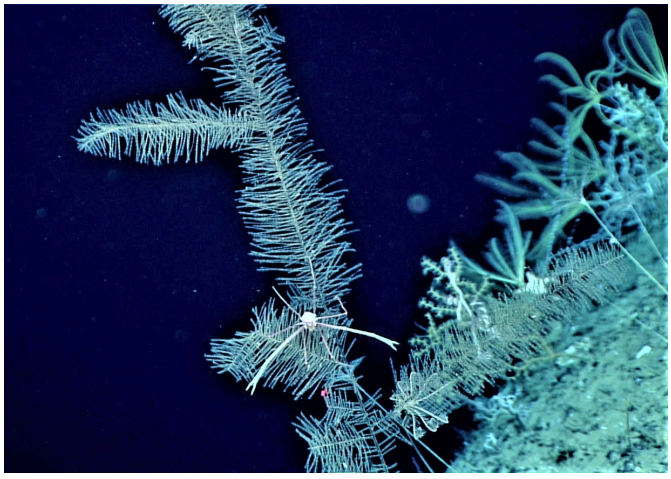
Scientific Name ***Parantipathes* sp.** ANT015

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



EX1711_IMG_20171205T202549Z_ROVHD.jpg



EX1711_IMG_20171205T202638Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Parantipathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1711
EventID	Dive06
Region	Gulf of Mexico
Locality	Smooth Escarpment Ridge
Latitude	28.00650
Longitude	-86.43760
Depth (m)	1715

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	949861

Description Yellow-brown, simple perpendicular branching and pinnate branches, small polyps

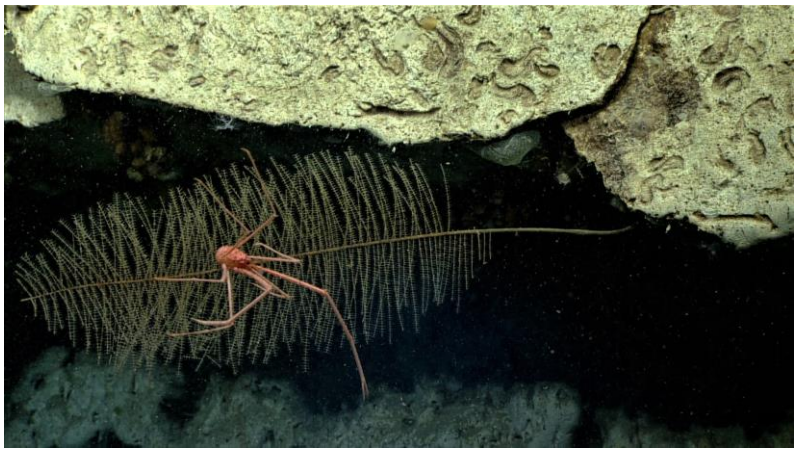
Specimen not collected

Order Antipatharia (black corals)

Scientific Name ***Parantipathes* sp.** ANT023

Scientific Name Authorship **Brook, 1889**

Identified by Salgado, Enrique



EX1907_IMG_20191118T195246Z_ROVHD

EX1907_IMG_20191118T181229Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Parantipathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive11
Region	Southeast US
Locality	Key West Deep
Latitude	23.97903
Longitude	-81.93961
Depth (m)	1172

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow-brown, thin pinnate branches, very small polyps

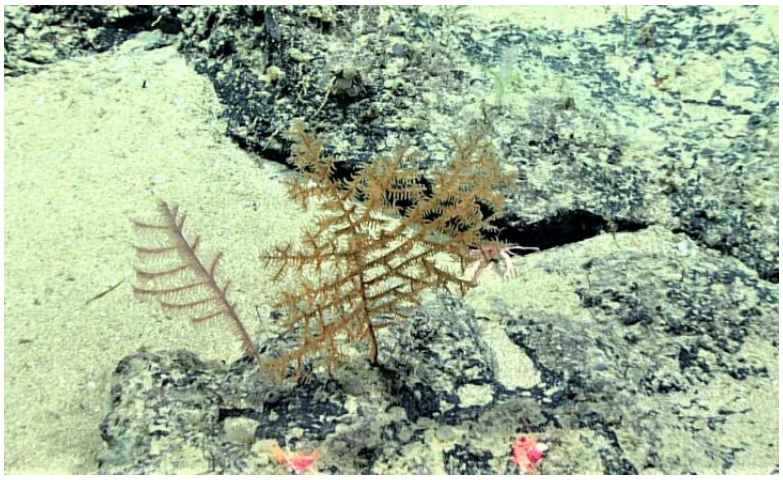
Specimen not collected

Order Antipatharia (black corals)

Scientific Name ***Stauropathes punctata*** ANT016

Scientific Name Authorship **(Roule, 1905)**

Identified by Opresko, Dennis



EX1806_IMG_20180617T134708Z_ROVHD.jpg

EX1806_IMG_20180617T134740Z_ROVHD.jpg

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Stauropathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94012
Longitude	-77.32859
Depth (m)	1321

Sample Information

Field Sample Number	D04_SPEC01_BIO
USNM#	1490546
DSCRTP Catalog Number	967917

Description Orange-brown, pinnate branching with secondary perpendicular branches, dense polyps

EX1806_IMG_20180617T135702Z_SMPSTL_D2_DIVE04_SPEC01BIO_L04.jpg

Order Antipatharia (black corals)

Scientific Name ***Telopathes* sp.** ANT017

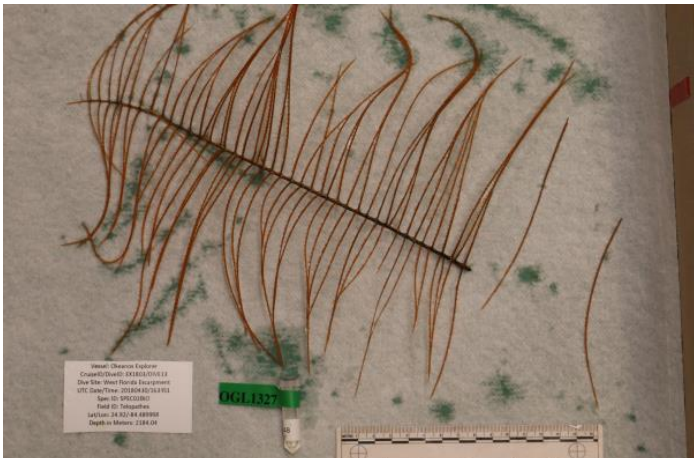
Scientific Name Authorship **Brook, 1889**

Identified by Opresko, Dennis

EX1803_IMG_20180430T162528Z_ROVHD

EX1803_IMG_20180430T162439Z_ROVHD

EX1803_IMG_20180430T162343Z_ROVHD



EX1803_IMG_20180430T163451Z_SMPSTL_D2_DIVE13_SPEC02BIO_L01

Taxonomy

Order	Antipatharia
Family	Schizopathidae
Genus	*Telopathes*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1803
EventID	Dive13
Region	Gulf of Mexico
Locality	West Florida Escarpment
Latitude	24.92000
Longitude	-84.48990
Depth (m)	2184

Sample Information

Field Sample Number	D13_SPEC02_BIO
USNM#	1507327
DSCRTP Catalog Number	971682

Description Orange-brown, pinnate baranching with infrequent dichotomous branch, small

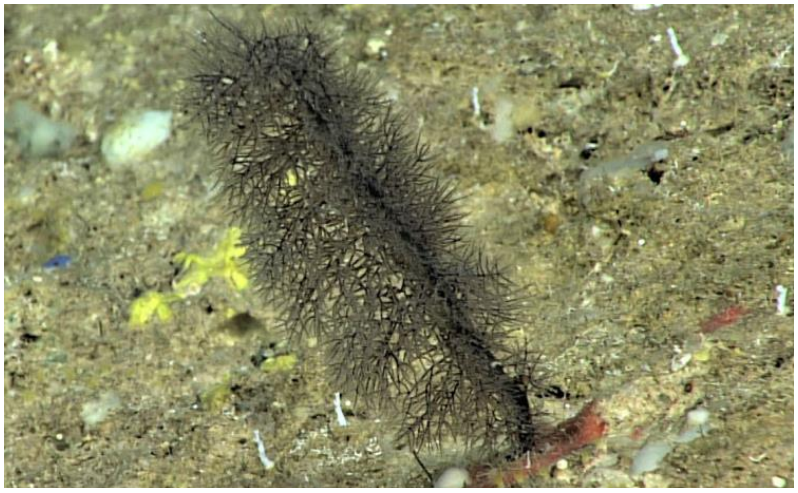
Order Antipatharia (black corals)

Scientific Name ***Stylopathes* sp.** ANT021

Scientific Name Authorship **Opresko, 2006**

Identified by Salgado, Enrique

EX1811_IMG_20181115T153513Z_ROVHD



EX1811_IMG_20181115T153326Z_ROVHD

Taxonomy

Order	Antipatharia
Family	Stylopathidae
Genus	*Stylopathes*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1811
EventID	Dive15
Region	US Caribbean
Locality	Pichincho Wall East
Latitude	17.73039
Longitude	-67.75507
Depth (m)	296

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

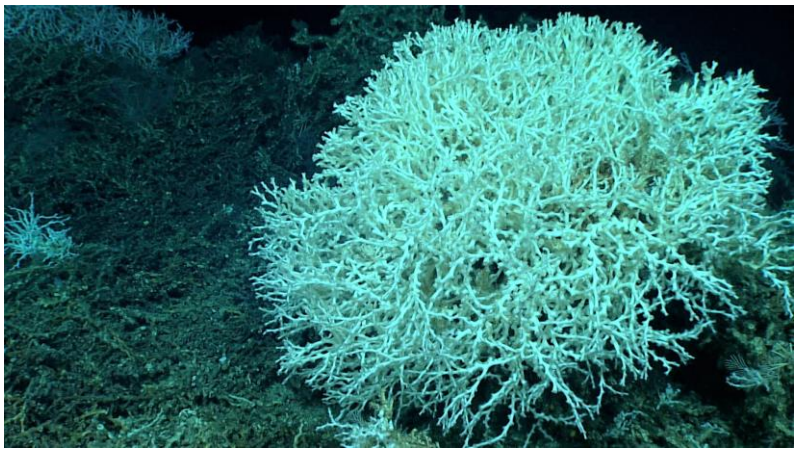
Description Red-brown, bottlebrush branching with very small secondary branches, very small polyps

Specimen not collected

Order Scleractinia (stony corals)

Scientific Name ***Lophelia pertusa* (*Desmophyllum pertusum*)** SCL001

Scientific Name Authorship **(Linnaeus, 1758)** Identified by Morrison, Cheryl



EX1806_IMG_20180621T210027Z_ROVHD.jpg

Lophelia_Dive07_InSitu.jpg

Taxonomy

Order	Scleractinia
Family	Caryophylliidae
Genus	*Lophelia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive07
Region	Southeast US
Locality	Richardson Ridge
Latitude	31.77031
Longitude	-77.36416
Depth (m)	789

Sample Information

Field Sample Number	D07_SPEC02_BIO
USNM#	1490593
DSCRTP Catalog Number	969303

Description white, branching, bushy

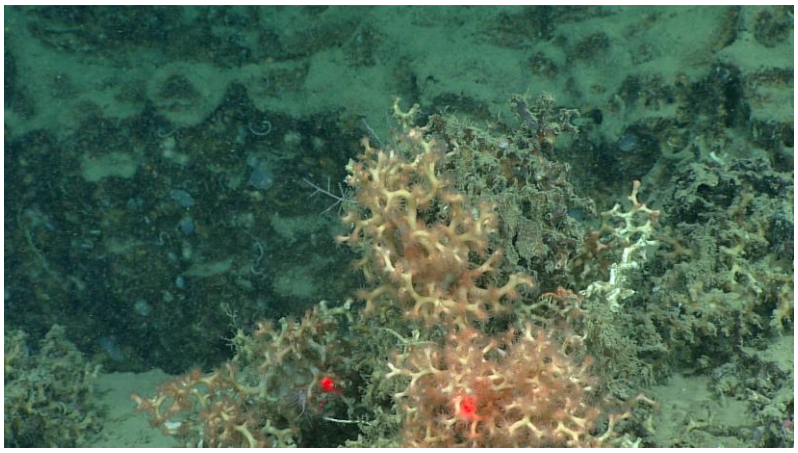
EX1806_IMG_20180621T212634Z_SMPSTL_D2_DIVE07_SPEC02BIO_L24.jpg

Order Scleractinia (stony corals)

Scientific Name ***Solenosmilia variabilis*** SCL002

Scientific Name Authorship **Duncan, 1873**

Identified by Cairns, Stephen



SE1024a_Solenosmillia_920.jpg

SE1024b_Solenosmillia_920.jpg

Taxonomy

Order	Scleractinia
Family	Caryophylliidae
Genus	*Solenosmilia*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive08
Region	Southeast US
Locality	Richardson Scarp
Latitude	32.09349
Longitude	-77.16114
Depth (m)	920

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	969438

Description Pink-orange, meandering branches, long tubular calices

Specimen not collected

Order Scleractinia (stony corals)

Scientific Name ***Enallopsammia rostrata*** SCL005

Scientific Name Authorship **(Pourtalès, 1878)**

Identified by Salgado, Enrique

SE1058a_Enallopsammia_891.jpg

SE1058b_Enallopsammia_891.jpg

Taxonomy

Order	Scleractinia
Family	Dendrophylliidae
Genus	*Enallopsammia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive04
Region	Southeast US
Locality	Blake Escarpment South
Latitude	30.94008
Longitude	-77.32953
Depth (m)	1289

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	967991

Description Yellow, planar branching, polyps facing one side

Specimen not collected

Order Scleractinia (stony corals)

Scientific Name ***Enallopsammia profunda*** SCL009

Scientific Name Authorship **(Pourtalès, 1868)**

Identified by Salgado, Enrique

EX1907_IMG_20191104T195306Z_ROVHD

EX1907_IMG_20191104T195137Z_ROVHD

EX1907_IMG_20191104T141943Z_ROVHD

Taxonomy

Order	Scleractinia
Family	Dendrophylliidae
Genus	*Enallopsammia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1907
EventID	Dive04
Region	Southeast US
Locality	Stetson Mesa Mound Field
Latitude	30.39840
Longitude	-79.27720
Depth (m)	817

Sample Information

Field Sample Number	EX1907_D04_06B
USNM#	Not available
DSCRTP Catalog Number	Not available

Description Yellow, meandering branches, polyps opposing with rounded calices

EX1907_IMG_20191104T200831Z_SMPSTL_D04_06B_L02

Order Scleractinia (stony corals)

Scientific Name ***Enallopsammia profunda*** SCL004

Scientific Name Authorship **(Pourtalès, 1868)**

Identified by Salgado, Enrique

Enallopsammia_crop.jpg

Enallopsammia_closeup.jpg

Taxonomy

Order	Scleractinia
Family	Dendrophylliidae
Genus	*Enallopsammia*

ID Verification Status **unconfirmed**

Metadata

SurveyID	EX1806
EventID	Dive05
Region	Southeast US
Locality	Stetson Mesa South
Latitude	29.36725
Longitude	-79.72885
Depth (m)	731

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	968513

Description White, meandering branches, polyps opposing with rounded calices

Specimen not collected

Order Scleractinia (stony corals)

Scientific Name ***Madrepora oculata*** SCL007

Scientific Name Authorship **Linnaeus, 1758**

Identified by Cairns, Stephen

EX1806_IMG_20180620T184223Z_ROVHD.jpg

EX1806_IMG_20180620T183941Z_ROVHD.jpg

Taxonomy

Order	Scleractinia
Family	Oculinidae
Genus	*Madrepora*
ID Verification Status	**confirmed by taxonomic analysis**

Metadata

SurveyID	EX1806
EventID	Dive07
Region	Southeast US
Locality	Richardson Ridge
Latitude	31.77006
Longitude	-77.36385
Depth (m)	790

Sample Information

Field Sample Number	D07_SPEC01_BIO
USNM#	1490592
DSCRTP Catalog Number	969302

Description Pink-white, branching in zigzag pattern, opposing calices

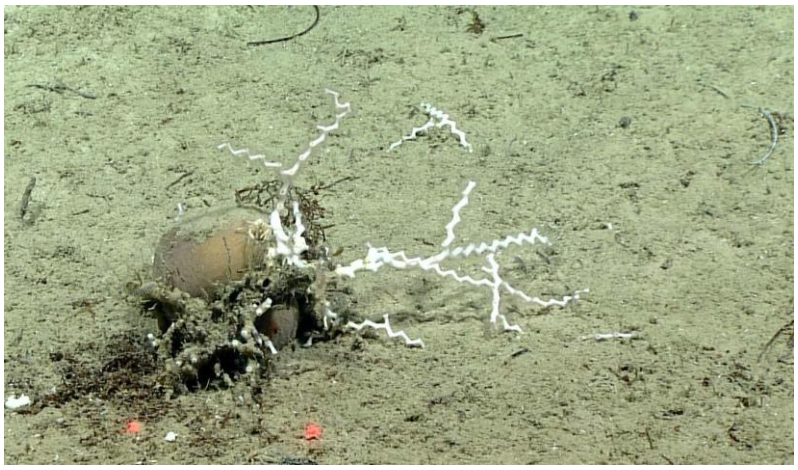
EX1806_IMG_20180621T212230Z_SMPSTL_D2_DIVE07_SPEC01BIO_L06.jpg

Order Scleractinia (stony corals)

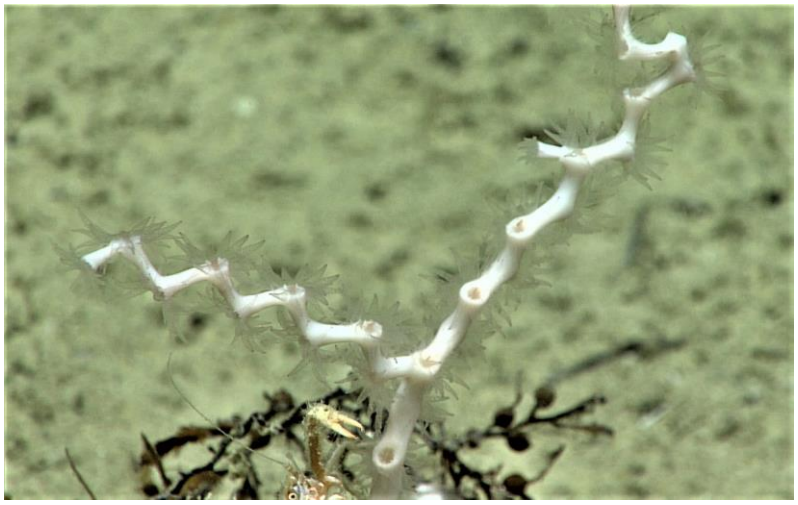
Scientific Name ***Madrepora oculata*** SCL006

Scientific Name Authorship **(Linnaeus, 1758)**

Identified by Cairns, Stephen



EX1811_IMG_20181108T173742Z_ROVHD



EX1811_IMG_20181108T173626Z_ROVHD

Taxonomy

Order	Scleractinia
Family	Oculinidae
Genus	*Madrepora*
ID Verification Status	**confirmed by taxonomic analysis**

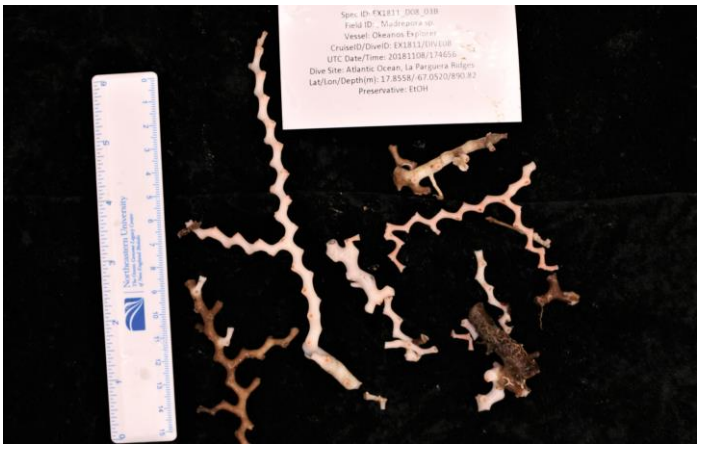
Metadata

SurveyID	EX1811
EventID	Dive08
Region	US Caribbean
Locality	La Parguera Ridges
Latitude	17.85580
Longitude	-67.05200
Depth (m)	891

Sample Information

Field Sample Number	EX1811_D08_03B
USNM#	1550641
DSCRTP Catalog Number	Not available

Description White, branching in zigzag pattern, opposing calices



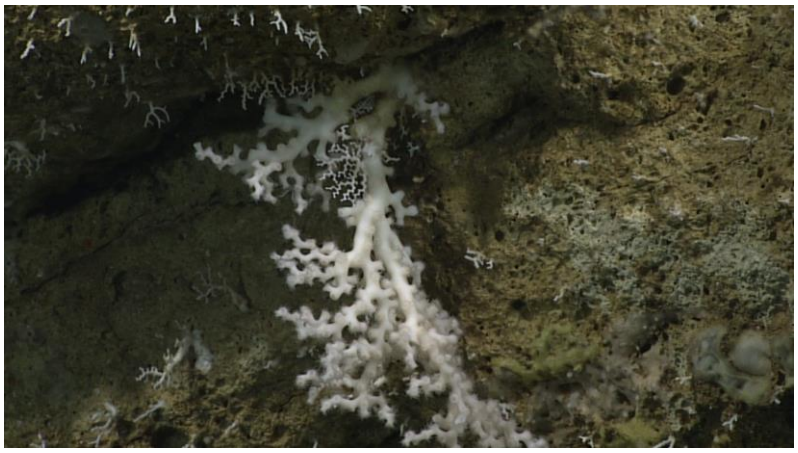
EX1811_IMG_20181108T174656Z_SMPSTL_D2_DIVE08_SPEC03BIO_L14

Order Scleractinia (stony corals)

Scientific Name ***Madrepora carolina*** SCL003

Scientific Name Authorship **(Pourtalès, 1871)**

Identified by Cairns, Stephen



EX1811_IMG_20181115T162536Z_ROVHD

EX1811_IMG_20181115T155525Z_ROVHD

Taxonomy

Order	Scleractinia
Family	Oculinidae
Genus	*Madrepora*
ID Verification Status	**confirmed by taxonomic analysis**

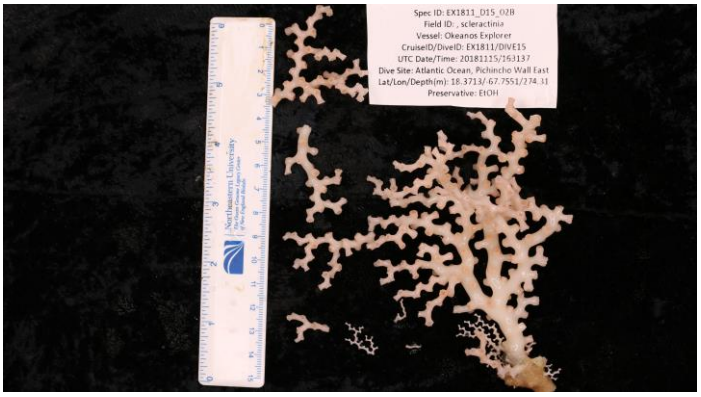
Metadata

SurveyID	EX1811
EventID	Dive15
Region	US Caribbean
Locality	Pichincho Wall East
Latitude	18.37130
Longitude	-67.75510
Depth (m)	274

Sample Information

Field Sample Number	EX1811_D15_02B
USNM#	1550651
DSCRTP Catalog Number	Not available

Description White, branching in compact zigzag pattern, opposing calices



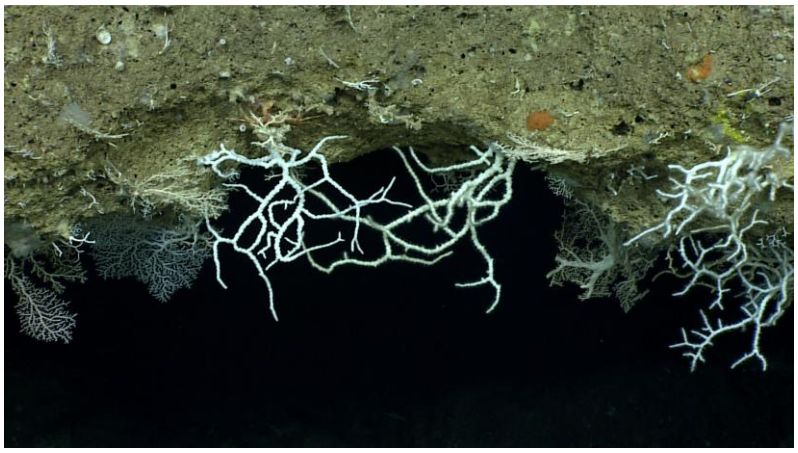
EX1811_IMG_20181115T163137Z_SMPSTL_D2_DIVE15_SPEC02BIO_L02

Order Scleractinia (stony corals)

Scientific Name ***Madracis myriaster*** SCL008

Scientific Name Authorship **Edwards & Haime, 1850**

Identified by Cairns, Stephen



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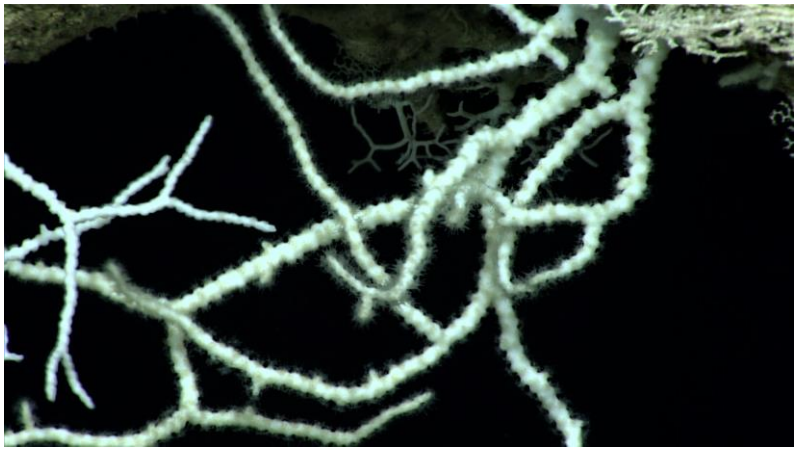

EX1811_IMG_20181115T155044Z_ROVHD

EX1811_IMG_20181115T155013Z_ROVHD

Taxonomy

Order	Scleractinia
Family	Pocilloporidae
Genus	*Madracis*

ID Verification Status **confirmed by taxonomic analysis**

Metadata

SurveyID	EX1811
EventID	Dive15
Region	US Caribbean
Locality	Pichincho Wall East
Latitude	18.37130
Longitude	-67.75510
Depth (m)	275

Sample Information

Field Sample Number	Not collected
USNM#	Not available
DSCRTP Catalog Number	Not available

Description White, simple meandering brambly branches, short calices

Specimen not collected

References

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