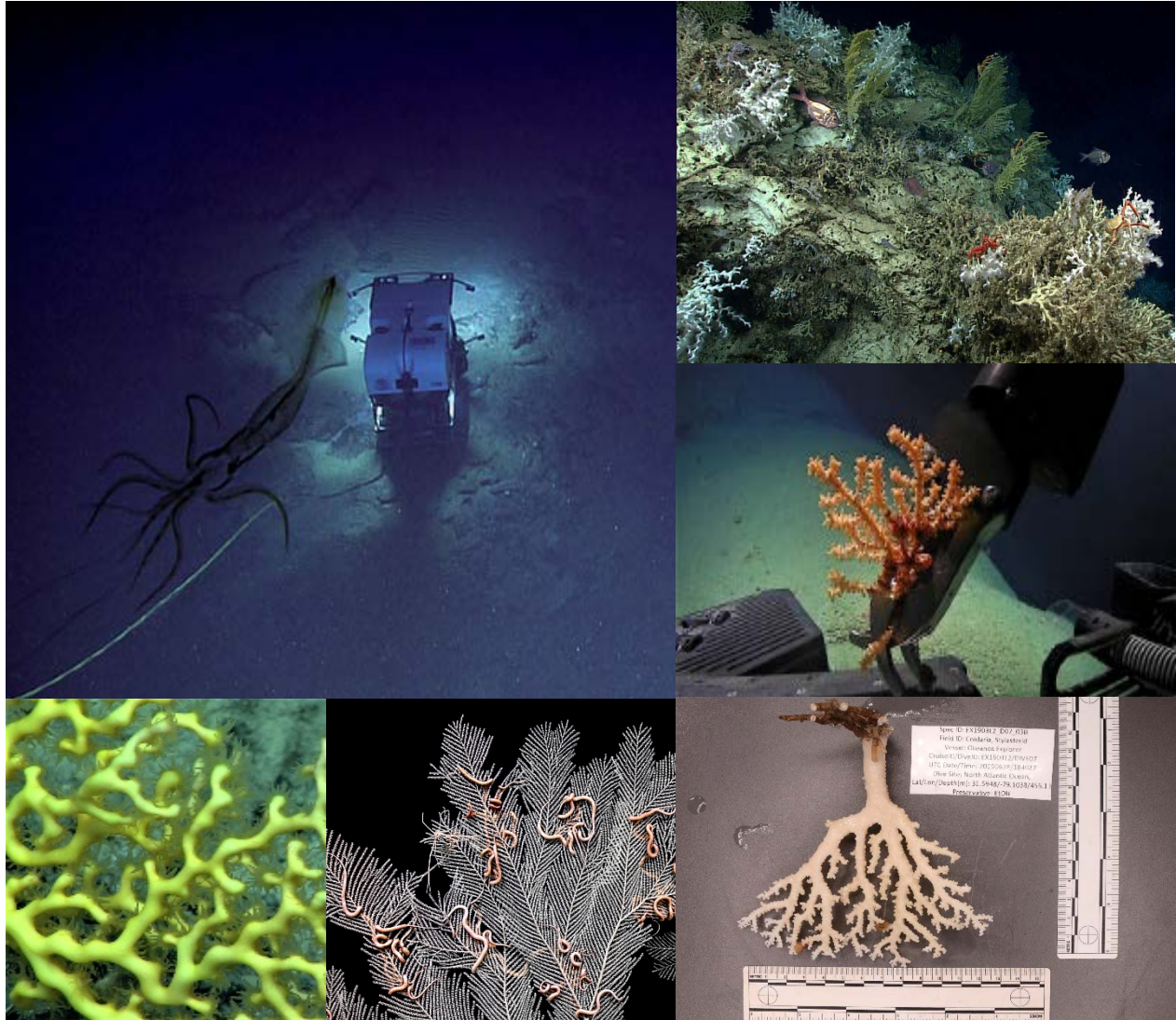

Photographic catalog of deep-sea corals collected from the US West Atlantic margin by NOAA ship *Okeanos Explorer* in years 2017- 2019



Enrique J. Salgado and Peter J. Etnoyer



NOAA Technical Memorandum
NOS NCCOS 273
March 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 273

March 2020



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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.

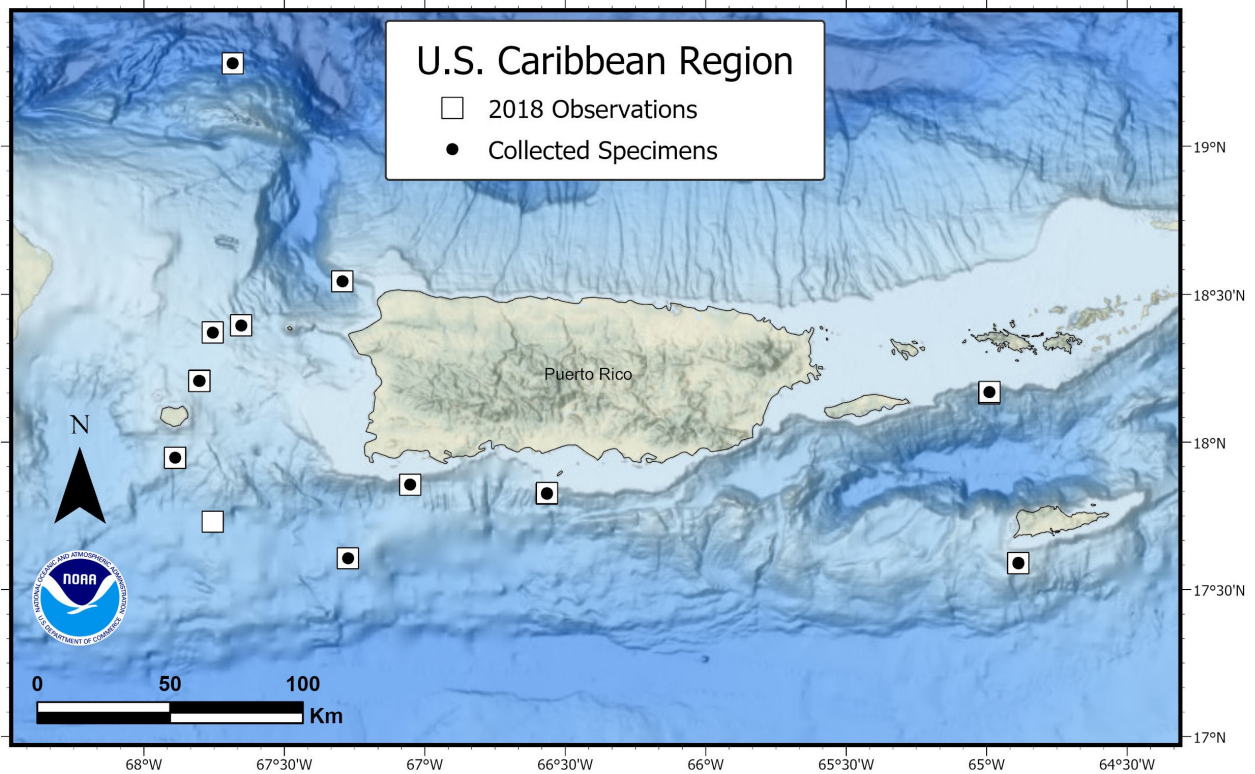


Figure 1. Map of U.S. Caribbean region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent observations, and black dots indicate where physical specimens were collected.

The data were queried from these cruises for taxa of interest within the region. All relevant metadata and location information for sampled specimens were 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.

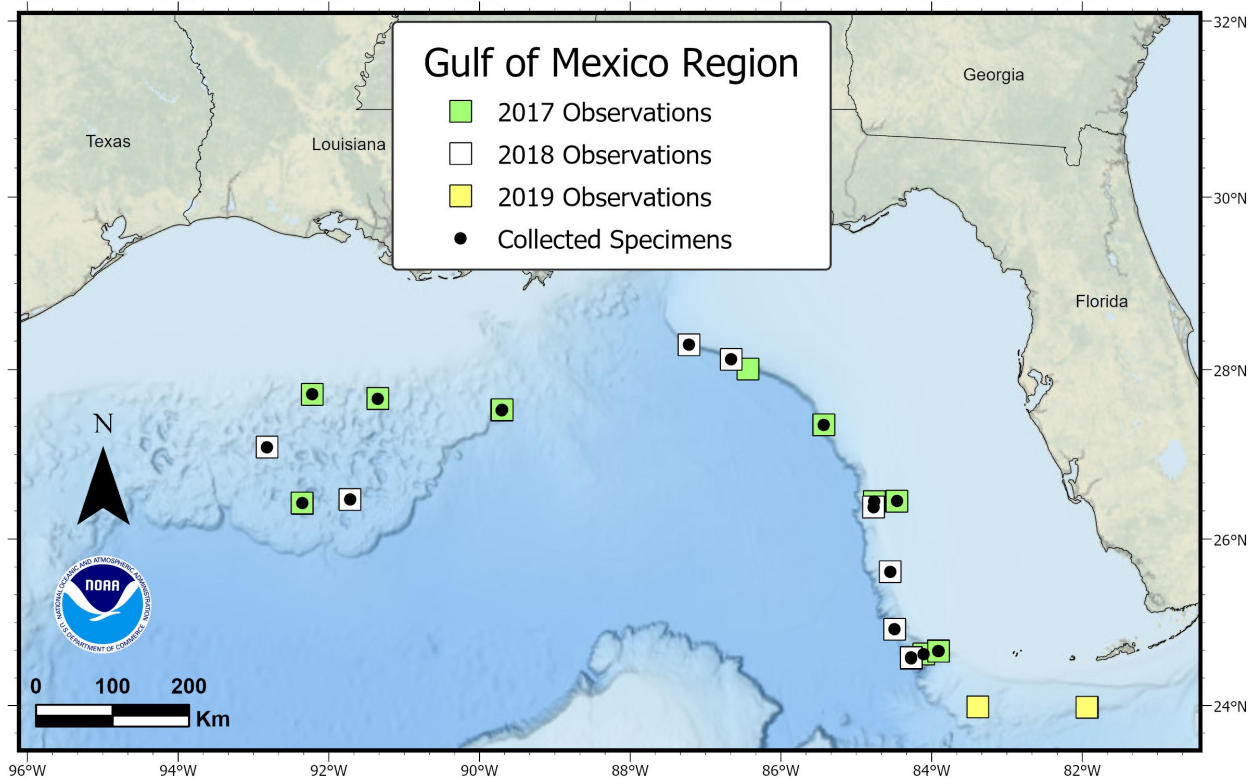


Figure 2. Map of Gulf of Mexico region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent photographic observations, and black dots indicate where physical specimens were collected. Fieldwork in the Gulf occurred in 2017 and 2018, with two dives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

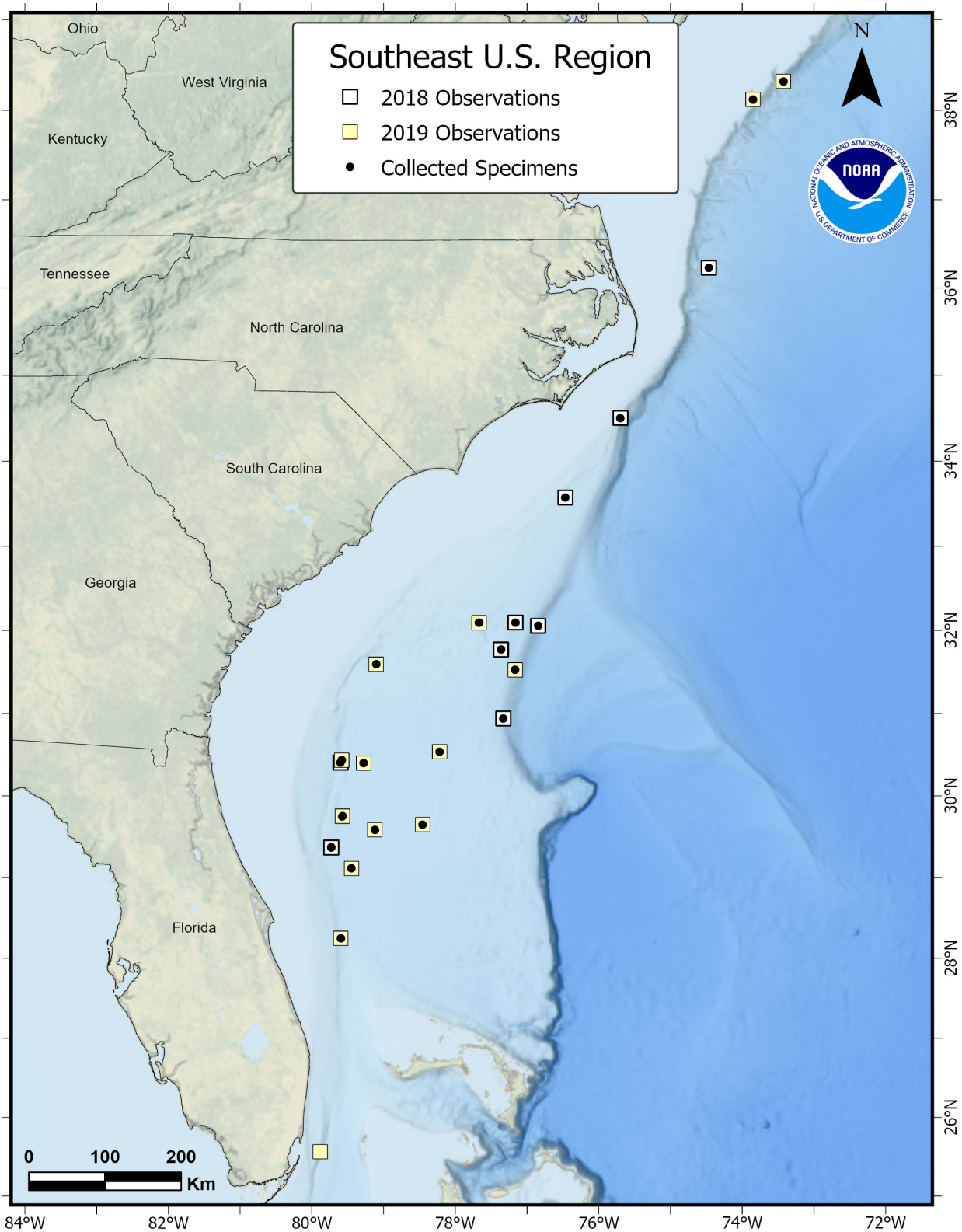


Figure 3. Map of Southeast U.S. region showing locations of samples collected by calendar year by NOAA Ship *Okeanos Explorer*. Squares represent photographic observations, and black dots indicate where physical specimens were collected. Fieldwork in the Southeast U.S. occurred in 2018 and 2019.

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.

Photographic catalog of deep-sea corals samples on the US West Atlantic margin

ScientificName **Paragorgia sp.**

ScientificNameAuthorship Milne Edwards, 1857

VerbatimScientificName Paragorgia sp.

Species

Order **Aleyonacea** FieldSampleNumber EX1903L2_D18_02

Family **Paragorgiidae** USNM 1580875

Genus **Paragorgia** DSCRTPCatalogNumber Not available

SurveyID **EX1903** EventID **Dive18**

Region **Southeast US** PhysicalSample

Locality **Baltimore Canyon** NeedsTaxonReview

Latitude **38.12050** ReviewedBy Weinnig, Alexis

Longitude **-73.84930** ReviewDate 7/1/2019

Depth **508** ImageQuality 4

In situ image names: EX1903L2_IMG_20190710T192456Z_BOVHD, EX1903L2_IMG_20190710T193157Z_D18_02B_04, EX1903L2_IMG_20190710T193304Z_SMPST1_D18_02B_101, EX1903L2_IMG_20190710T190414Z_BOVHD

Iconic image: EX1903L2_IMG_20190710T193157Z_D18_02B_04

Record number: ALC037

Morphospecies

Identification Verification Status **unconfirmed**

Morphological Description Red-white, thick knobby branches, large polyps

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 to this catalog would 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.

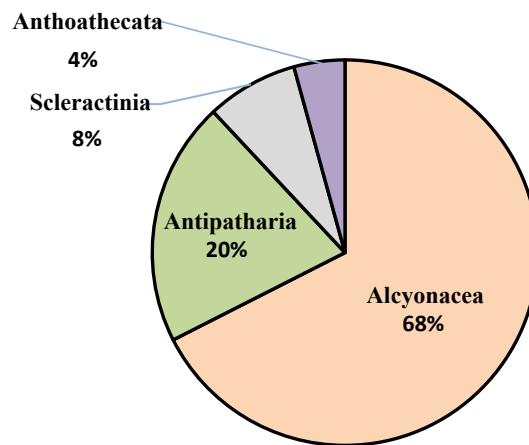


Figure 5. Number and proportion of samples obtained in the U.S. West Atlantic margin by NOAA Ship *Okeanos Explorer* included in this volume. A total of 117 samples are included in this catalog.

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

Calendar Year	Alcyonacea		Antipatharia		Scleractinia		Anthoathecata	
	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.

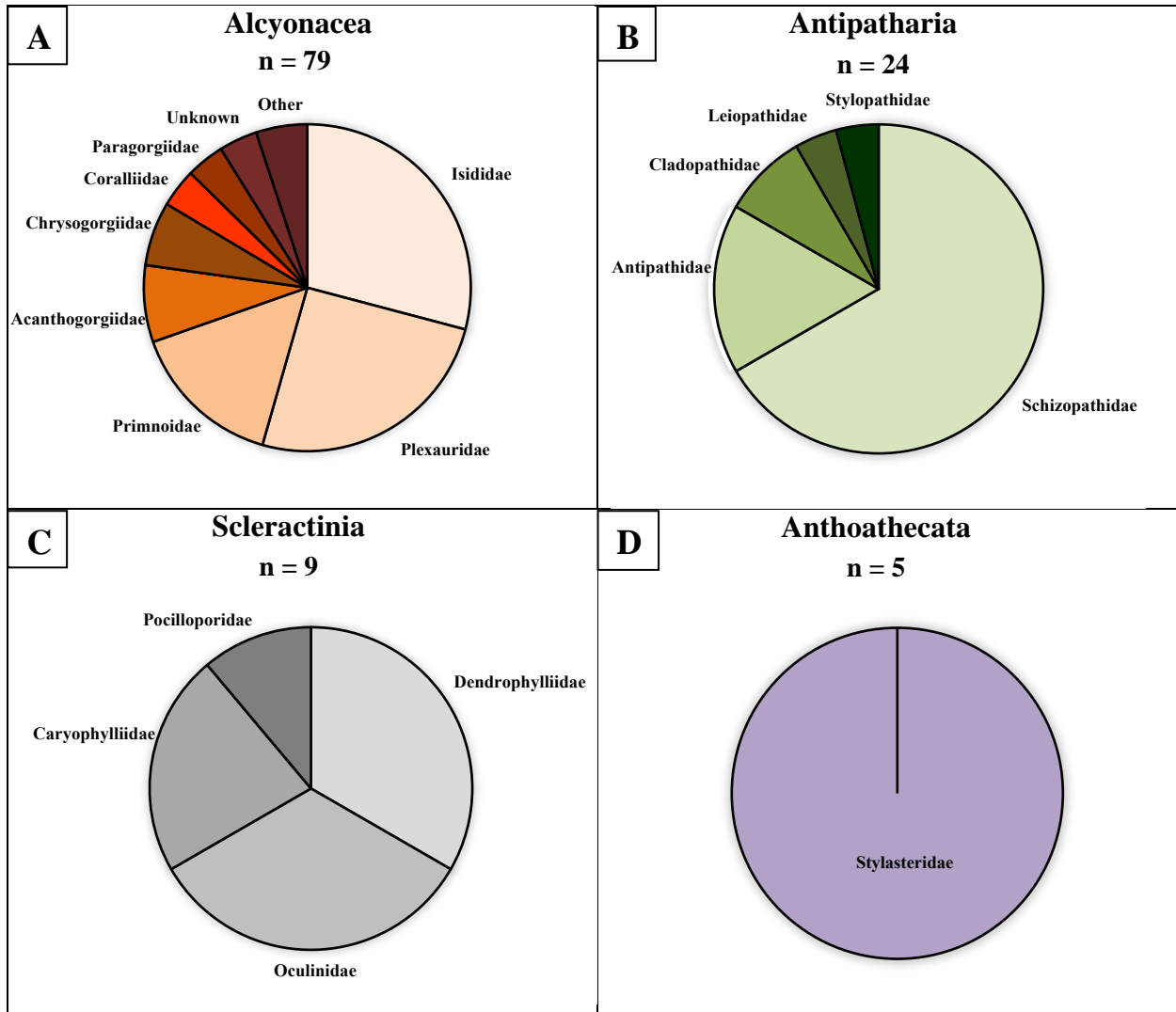


Figure 6. Number and proportion of samples collected from four orders of deep-sea corals in the U.S. West Atlantic margin by NOAA Ship *Okeanos Explorer* included in this guide. Octocorals in the order Alcyonacea (A) comprised 79 samples; black corals in the order Antipatharia (B) include 24 samples;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

Of all 117 samples curated for this volume, 25 have been identified to species level, 72 have been identified to genus level, and the 17 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	25
Genus	72
Family	17
Order	3
Total	117

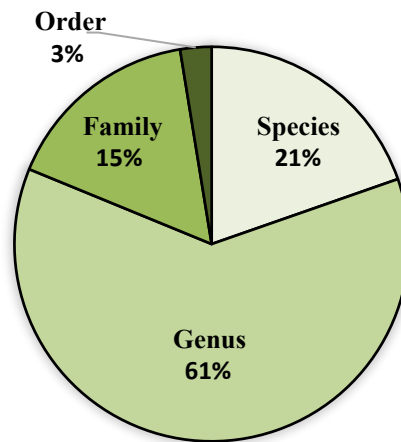


Figure 7. Level of taxonomic resolution as percentage of total samples collected and included in this volume (n = 117).

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 families, 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
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, 24 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

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

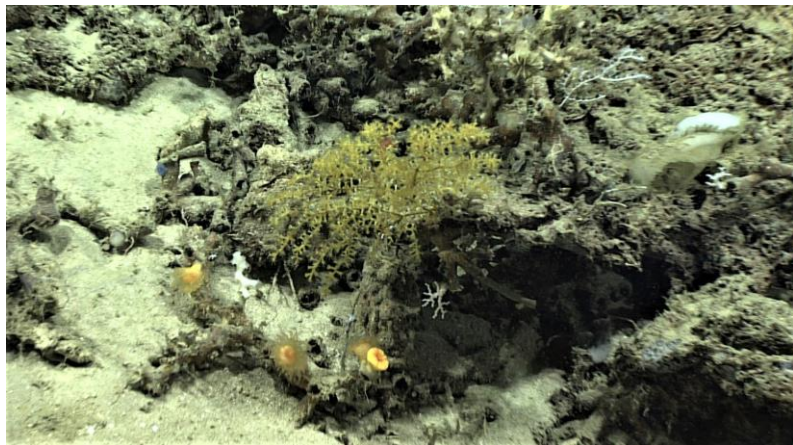
Sample Information

Field Sample Number D11_SPEC02_BIO

USNM# 1507298

DSCRTP Catalog Number 971112

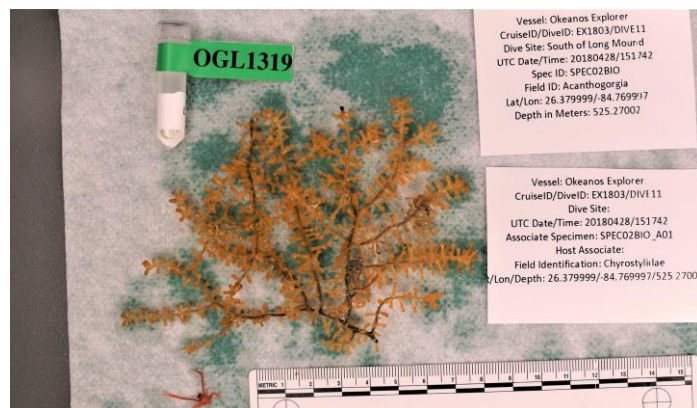
Description Yellow, dense planar branching with dark axis, large thin elongated polyps



EX1803_IMG_20180428T150940Z_ROVHD



EX1803_IMG_20180428T151024Z_ROVHD



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

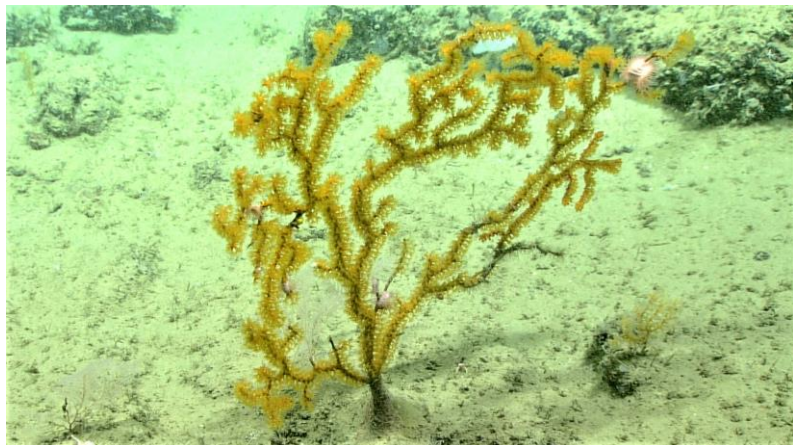
Taxonomy

Order Alcyonacea

Family Acanthogorgiidae

Genus *Acanthogorgia*

ID Verification Status unconfirmed



SE1058a_Acanthogorgia_914.jpg

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



SE1058b_Acanthogorgia_914.jpg

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Acanthogorgia sp.*

ALC066

Scientific Name Authorship Gray, 1857

Identified by Cordeiro, Raif

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



EX1811_IMG_20181113T170032Z_ROVHD



EX1811_IMG_20181113T165957Z_ROVHD



EX1811_IMG_20181113T164856Z_ROVHD



EX1811_IMG_20181113T170547Z_SMPSTL_D2_DIVE13_SPEC3BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Acanthogorgia sp.*

ALC001

Scientific Name Authorship Gray, 1857

Identified by Amon, Diva

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

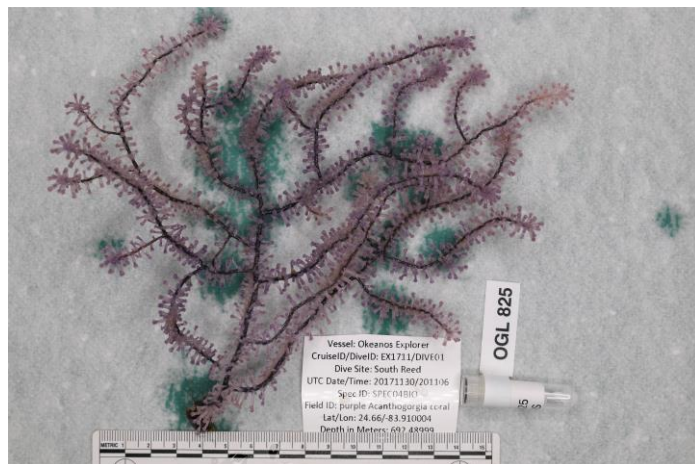
Description Light purple, dense planar branching with dark axis, large thin elongated polyps



EX1711_IMG_20171130T200731Z_ROVHDSPEC04BIO.jpg



EX1711_IMG_20171130T200536Z_ROVHDSPEC04BIO.jpg



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

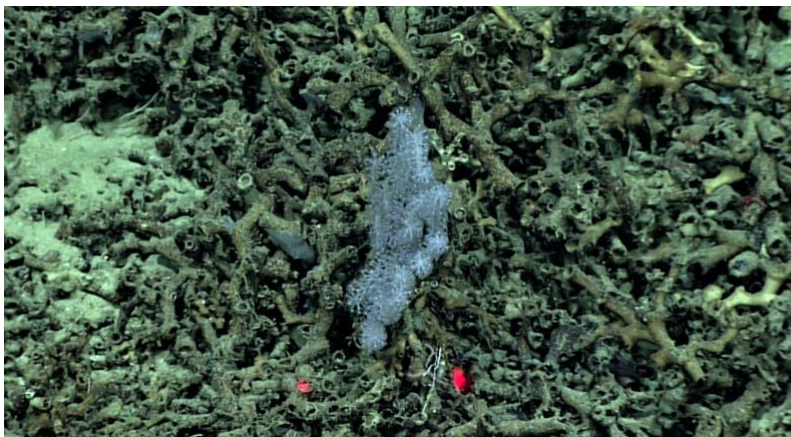
Taxonomy

Order Alcyonacea

Family Acanthogorgiidae

Genus *Acanthogorgia*

ID Verification Status unconfirmed



EX1803_IMG_20180428T160246Z_ROVHD

Metadata

SurveyID EX1803

EventID Dive11

Region Gulf of Mexico

Locality South of Long Mound

Latitude 26.37990

Longitude -84.76999

Depth (m) 521

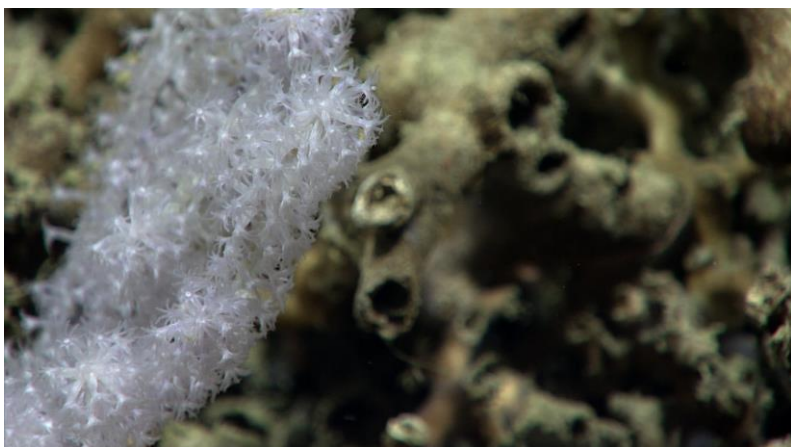
Sample Information

Field Sample Number D11_SPEC03_BIO

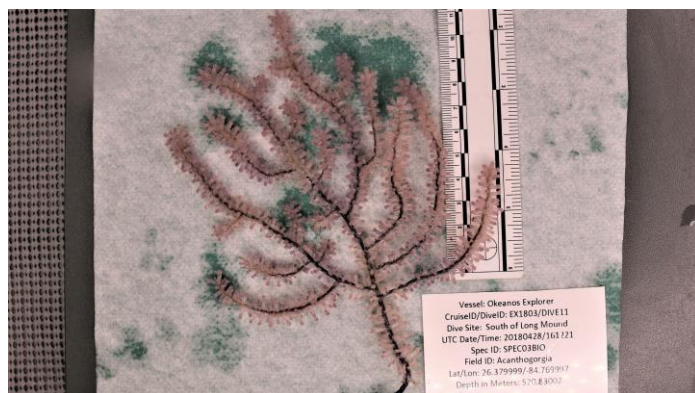
USNM# 1507301

DSCRTP Catalog Number 970871

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



EX1803_IMG_20180428T160521Z_ROVHD



EX1803_IMG_20180428T161221Z_SMPSTL_D2_DIVE11_SPEC03BIO_L03.jpg

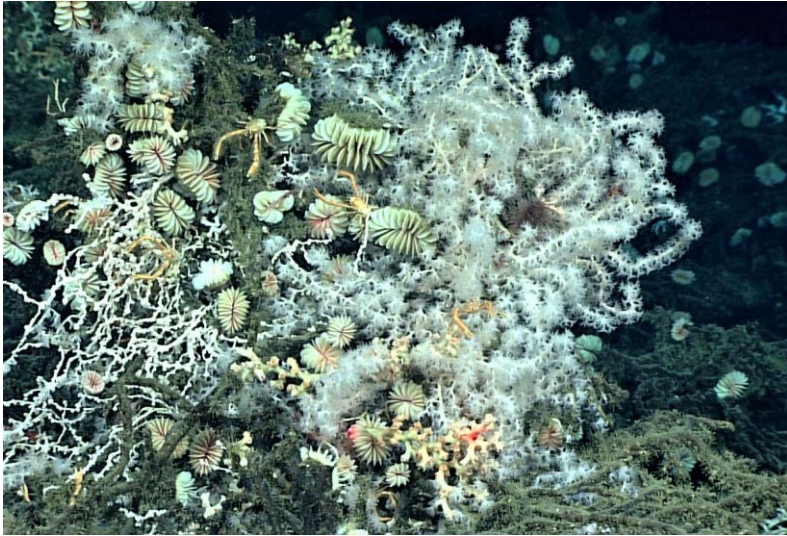
Order Alcyonacea (sea fans and soft corals)

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

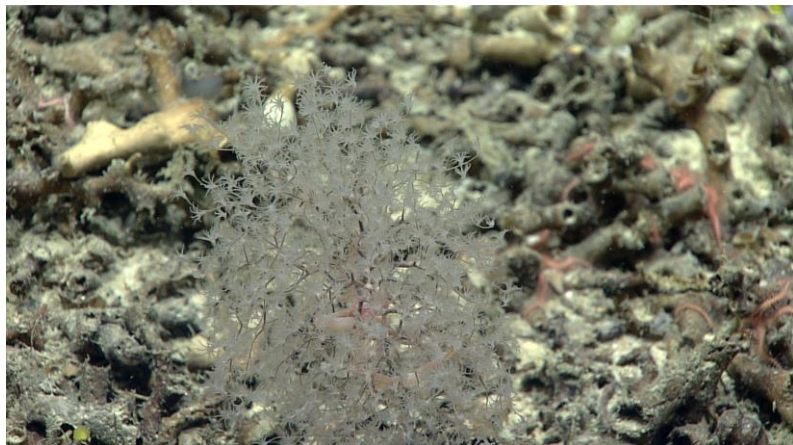
Scientific Name Authorship Duchassaing & Michelotti, 1864

Identified by Weinnig, Alexis

Taxonomy

Order Alcyonacea
Family Chrysogorgiidae
Genus *Chrysogorgia*

ID Verification Status unconfirmed



EX1903L2_IMG_20190625T172425Z_ROVHD



EX1903L2_IMG_20190625T172524Z_ROVHD

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

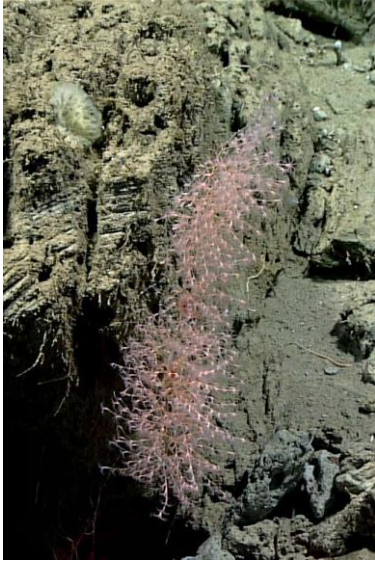
Order Alcyonacea (sea fans and soft corals)

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

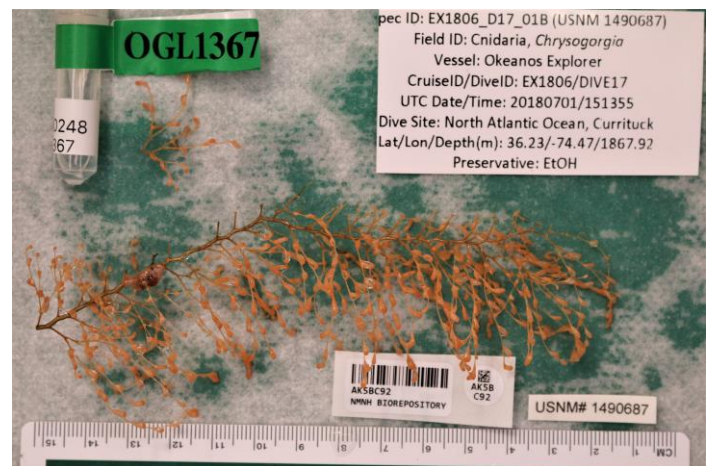
Metadata

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_SPEC01_BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Chrysogorgia sp.*

ALC007

Scientific Name Authorship Duchassaing & Michelotti, 1864

Identified by Amon, Diva

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

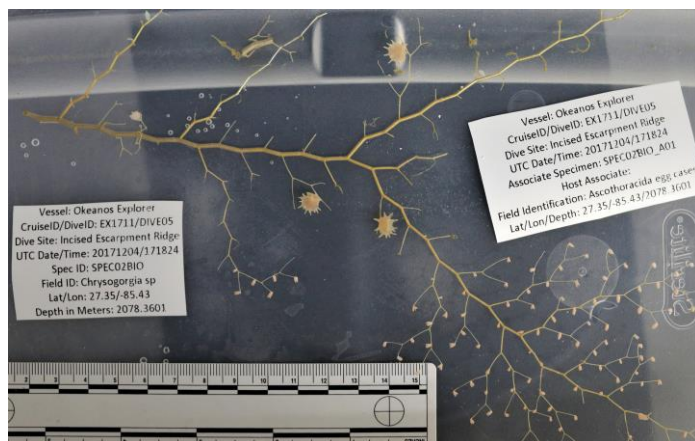
Description Yellow-white, thin repeatedly bifurcating branches, serial polyps with thin coenenchyme



EX1711_IMG_20171204T171220Z_ROVHD.jpg



EX1711_IMG_20171204T170916Z_ROVHD.jpg



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

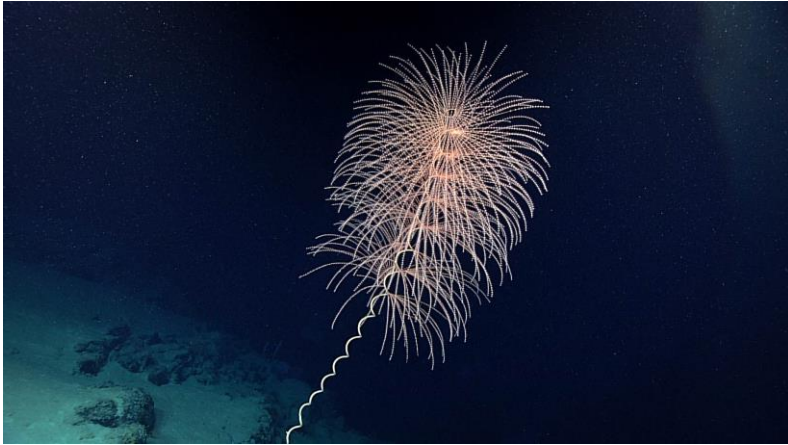
Taxonomy

Order Alcyonacea

Family Chrysogorgiidae

Genus *Iridogorgia*

ID Verification Status unconfirmed



EX1803_IMG_20180501T155442Z_ROVHD_CC

Metadata

SurveyID EX1803

EventID Dive14

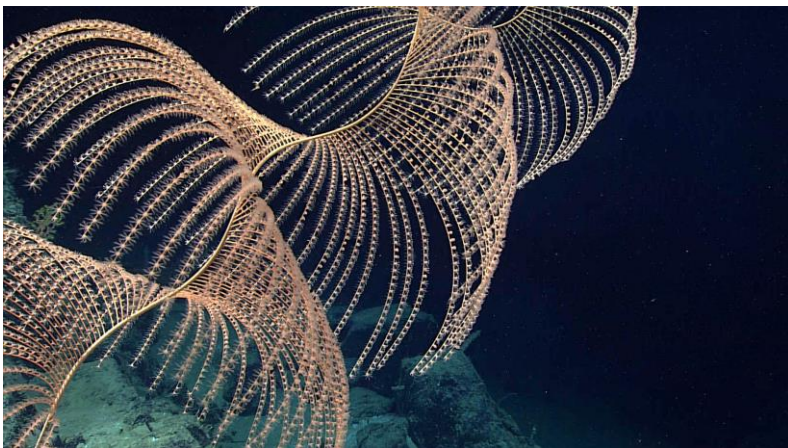
Region Gulf of Mexico

Locality Southern West FL Escarpmen

Latitude 24.57700

Longitude -84.27042

Depth (m) 2350



EX1803_IMG_20180501T185927Z_ROVHD_CC

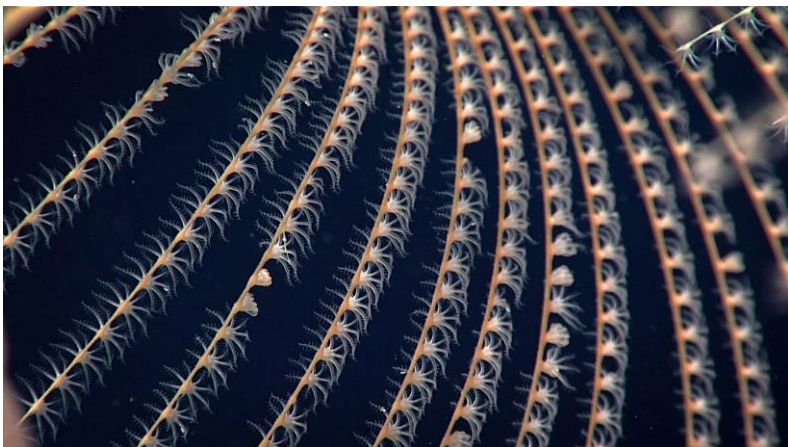
Sample Information

Field Sample Number Not collected

USNM# Not available

DSCRTP Catalog Number 971819

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



EX1803_IMG_20180501T185905Z_ROVHD_CC

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Metallogorgia sp.*

ALC010

Scientific Name Authorship Versluys, 1902

Identified by Salgado, Enrique

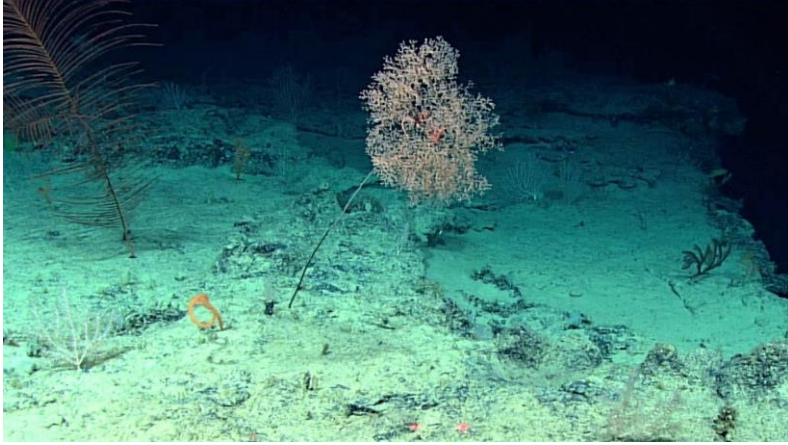
Taxonomy

Order Alcyonacea

Family Chrysogorgiidae

Genus *Metallogorgia*

ID Verification Status **unconfirmed**



EX1806_IMG_20180617T170845Z_ROVHD.jpg



EX1806_IMG_20180617T170814Z_ROVHD.jpg



EX1803_IMG_20180501T185355Z_ROVHD_CC

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

Taxonomy

Order Alcyonacea
Family Clavulariidae
Genus *Clavularia*

ID Verification Status **unconfirmed**



EX1907_IMG_20191118T164819Z_ROVHD



EX1907_IMG_20191119T144955Z_ROVHD

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

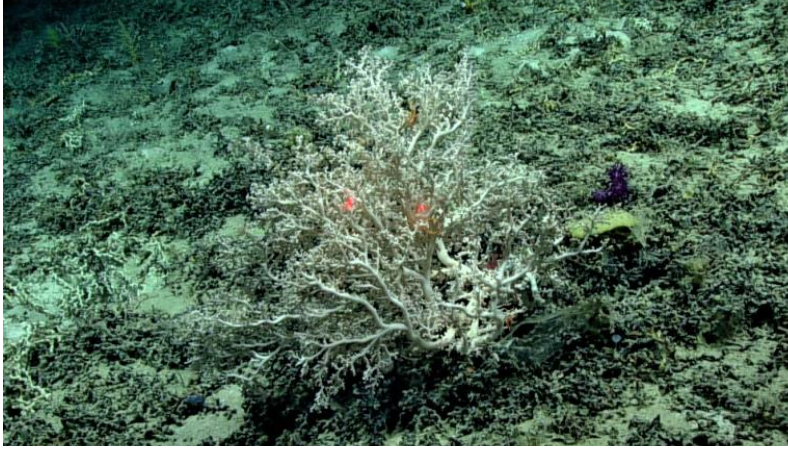
Taxonomy

Order Alcyonacea

Family Coralliidae

Genus *Corallium*

ID Verification Status unconfirmed



EX1907_IMG_20191119T151754Z_ROVHD

Metadata

SurveyID EX1907

EventID Dive12

Region Southeast US

Locality 'Berg Bits' SW of Dry Tortugas

Latitude 23.98353

Longitude -83.38666

Depth (m) 934



EX1907_IMG_20191119T151431Z_ROVHD

Sample Information

Field Sample Number Not collected

USNM# Not available

DSCRTP Catalog Number Not available

Description White, planar arborescent branching, sparse bilaterally alternating polyps



EX1907_IMG_20191119T151431Z_ROVHD

Specimen not collected

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Corallium sp.*

ALC067

Scientific Name Authorship Cuvier, 1798

Identified by Amon, Diva

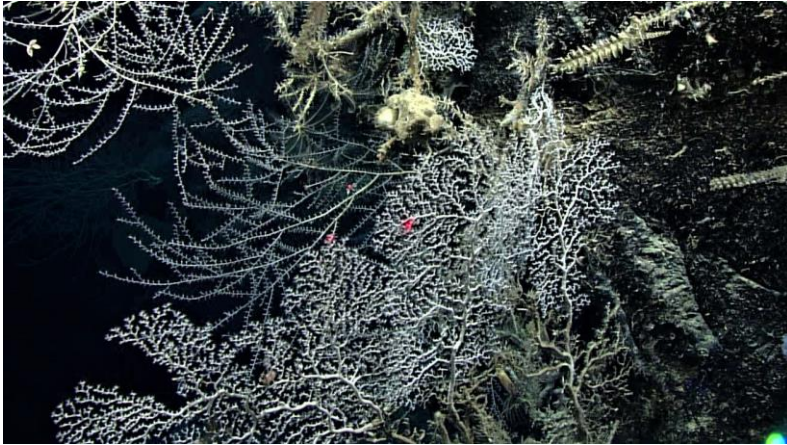
Taxonomy

Order Alcyonacea

Family Coralliidae

Genus *Corallium*

ID Verification Status unconfirmed



EX1711_IMG_20171201T190025Z_ROVHD



EX1711_IMG_20171201T190231Z_ROVHD



EX1711_IMG_20171201T190455Z_MICRO_D2_DIVE02_SPEC04BIO_M0

8

Metadata

SurveyID EX1711

EventID Dive02

Region Gulf of Mexico

Locality Escarpment Canyon

Latitude 24.62280

Longitude -84.10490

Depth (m) 2211

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_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

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

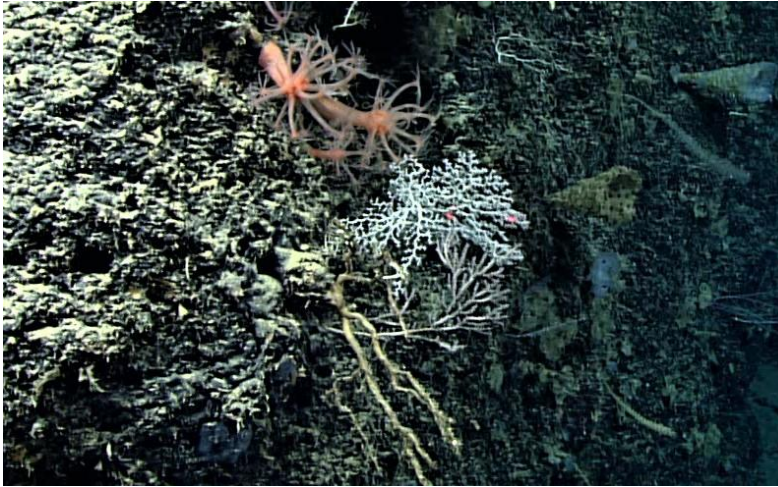
Sample Information

Field Sample Number D05_SPEC03_BIO

USNM# 1482991

DSCRTP Catalog Number 949630

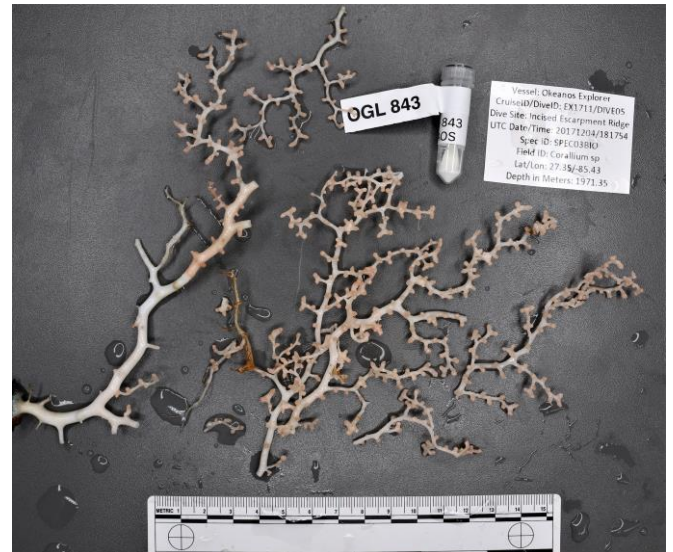
Description Pink-white, planar arborescent branching, sparse bilaterally alternating polyps



EX1711_IMG_20171204T180641Z_ROVHD.jpg



EX1711_IMG_20171204T181339Z_ROVHD.jpg



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

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

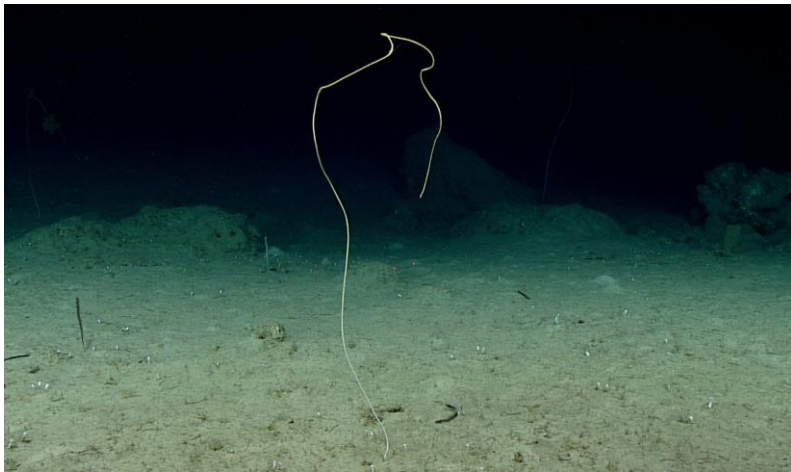
Sample Information

Field Sample Number EX1811_D07_03B

USNM# 1550638

DSCRTP Catalog Number Not available

Description Yellow, unbranched, long whip with small polyps



EX1811_IMG_20181107T214755Z_ROVHD



EX1811_IMG_20181107T214938Z_ROVHD



EX1811_IMG_20181107T215439Z_SMPSTL_D2_DIVE07_SPEC3BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Gorgoniidae**

ALC012

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

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



SE1062a_Gorgoniidae_340.jpg



SE1062b_Gorgoniidae_340.jpg



EX1806_IMG_20180627T171143Z_SMPSTL_D2_DIVE13_SPEC02_BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Acanella* sp.

ALC024

Scientific Name Authorship Gray, 1870

Identified by Cairns, Stephen

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

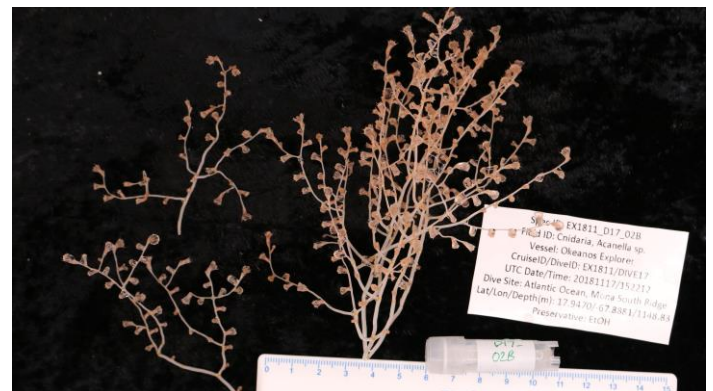
Description Pink-white, thin and bushy branches with dark nodes, sparse polyps



EX1811_IMG_20181117T151649Z_ROVHD



EX1811_IMG_20181117T151627Z_ROVHD



EX1811_IMG_20181117T152212Z_SMPSTL_D2_DIVE17_SPEC02B
2BIO_L07

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae**

ALC018

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

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

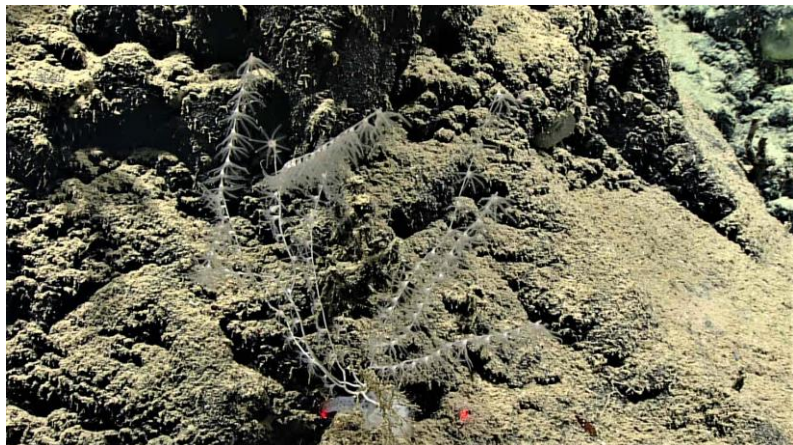
Sample Information

Field Sample Number EX1811_D09_01B

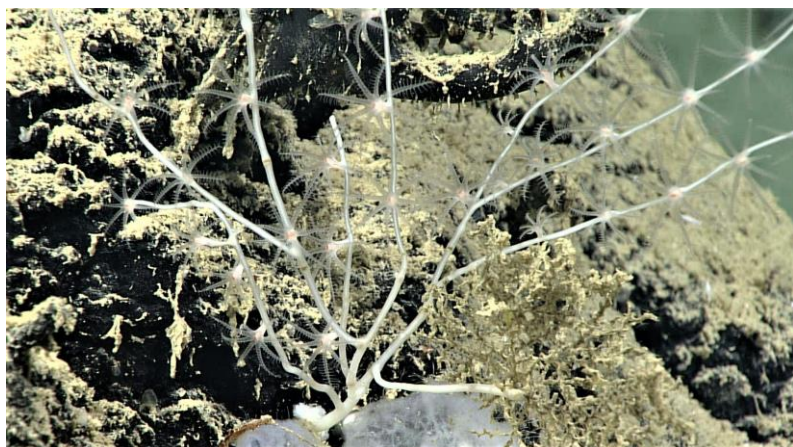
USNM# 1550642

DSCRTP Catalog Number Not available

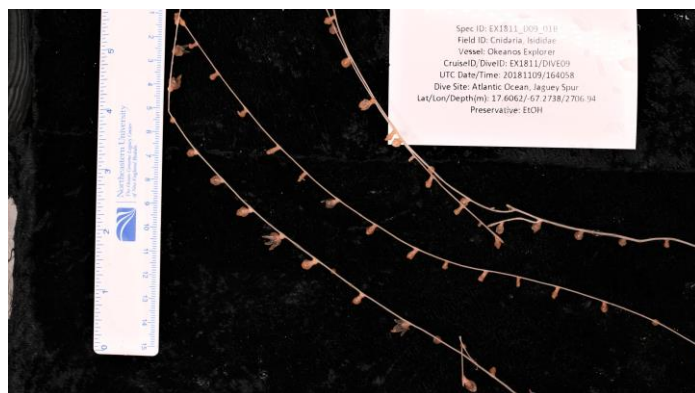
Description White, thin dichotomous branches with nodes, sparse small polyps



EX1811_IMG_20181109T163425Z_ROVHD



EX1811_IMG_20181109T162945Z_ROVHD



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

Taxonomy

Order Alcyonacea

Family Isididae

Genus *Acanella*

ID Verification Status **unconfirmed**



EX1711_IMG_20171213T205455Z_ROVHD.jpg



EX1711_IMG_20171213T205527Z_ROVHD.jpg

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

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

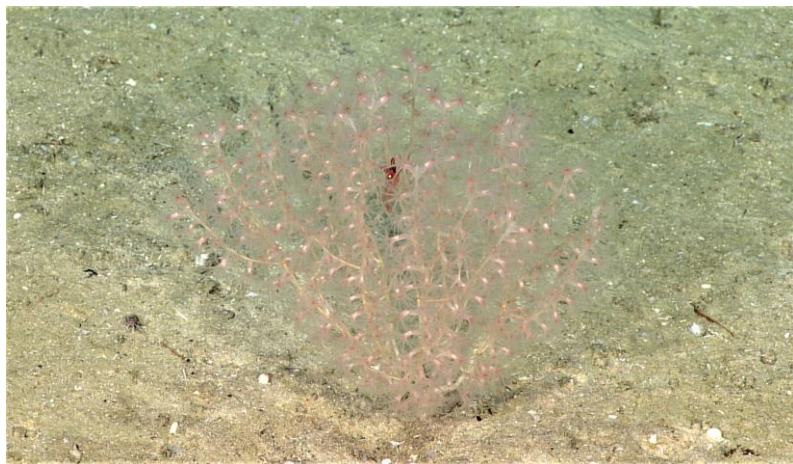
Sample Information

Field Sample Number D17_SPEC02_BIO

USNM# 1490688

DSCRTP Catalog Number 970078

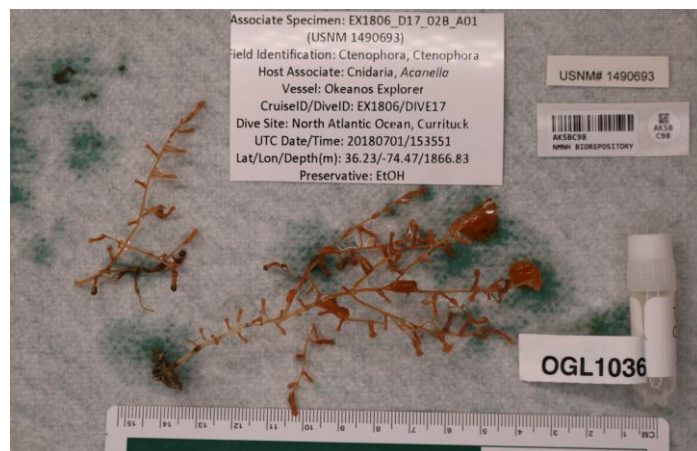
Description Pink-orange, bushy branches with dark nodes, sparse polyps



Acanella_EX1806_1865.jpg



EX1806_IMG_20180614T144728Z_ROVHD.jpg



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

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

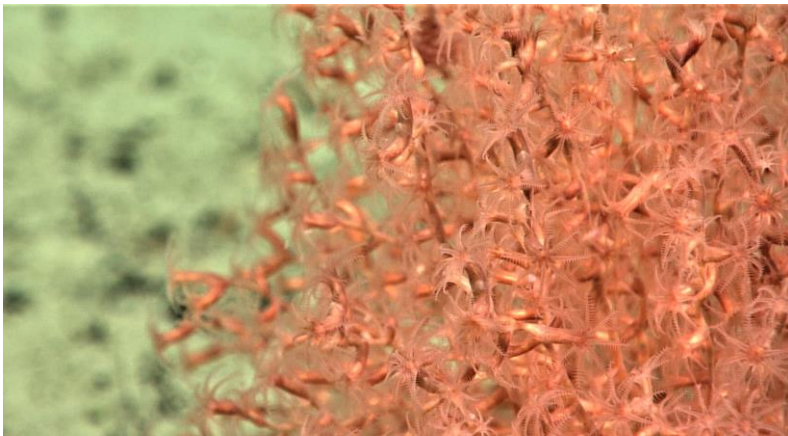
USNM# 1580864

DSCRTP Catalog Number Not available

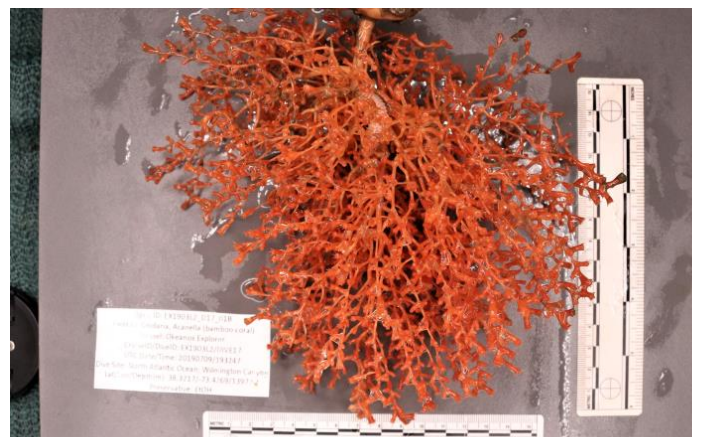
Description Pink-orange, bushy branching with dark nodes, dense polyps



EX1903L2_IMG_20190709T192932Z_ROVHD



EX1903L2_IMG_20190709T192813Z_ROVHD



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

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

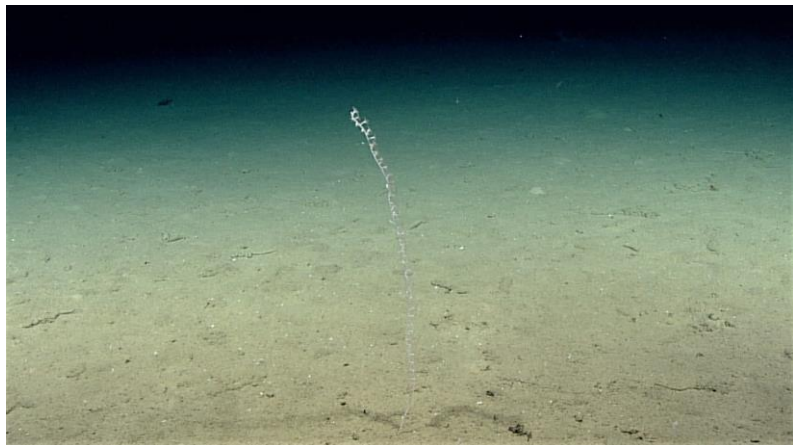
Sample Information

Field Sample Number D07_SPEC01_BIO

USNM# 1507279

DSCRTP Catalog Number 970354

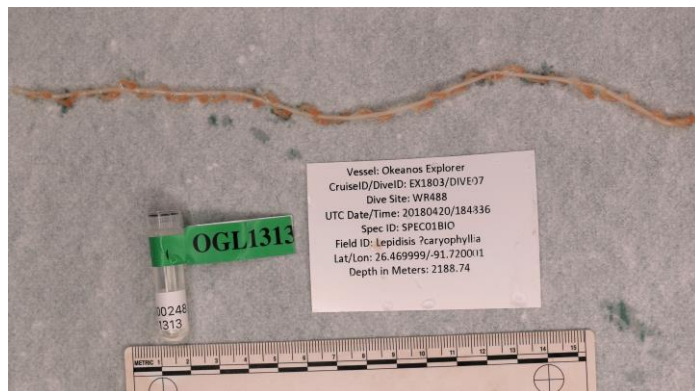
Description White-pink, unbranched with nodes, sparse polyps



EX1803_IMG_20180420T184428Z_ROVHD



EX1803_IMG_20180420T184449Z_ROVHD



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

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

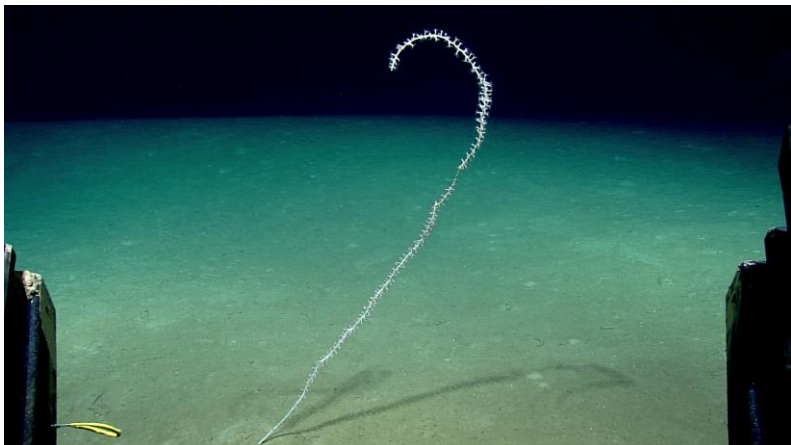
Sample Information

Field Sample Number D11_SPEC01_BIO

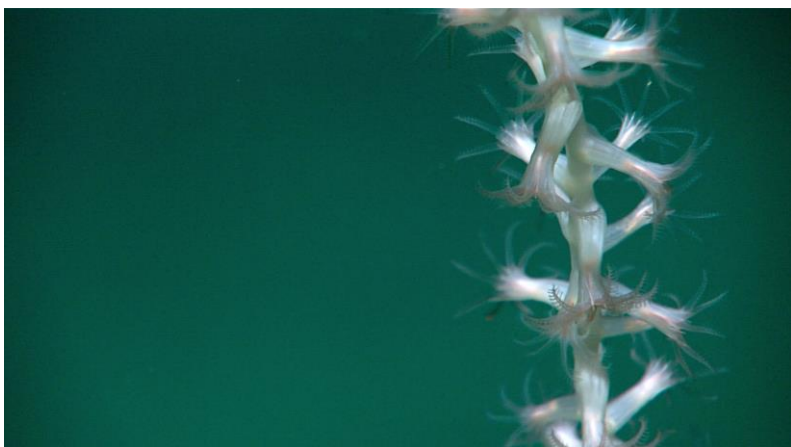
USNM# 1483022

DSCRTP Catalog Number 950047

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



EX1711_IMG_20171213T203031Z_ROVHD

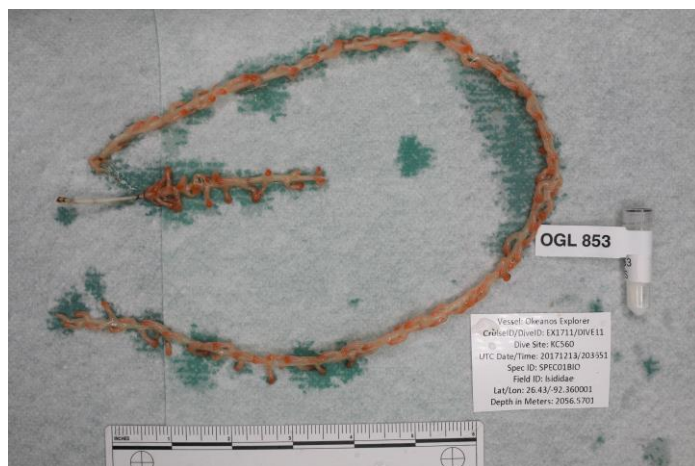


EX1711_IMG_20171213T202859Z_ROVHD



EX1711_IMG_20171213T203651Z_MICRO_D2_DIVE11_SPEC01BIO_M0

1



EX1711_IMG_20171213T203651Z_SMPSTL_D2_DIVE11_SPEC01BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae**

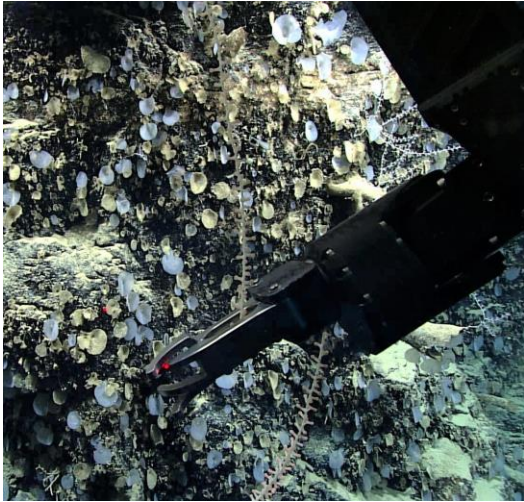
ALC016

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 *Unknown*

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

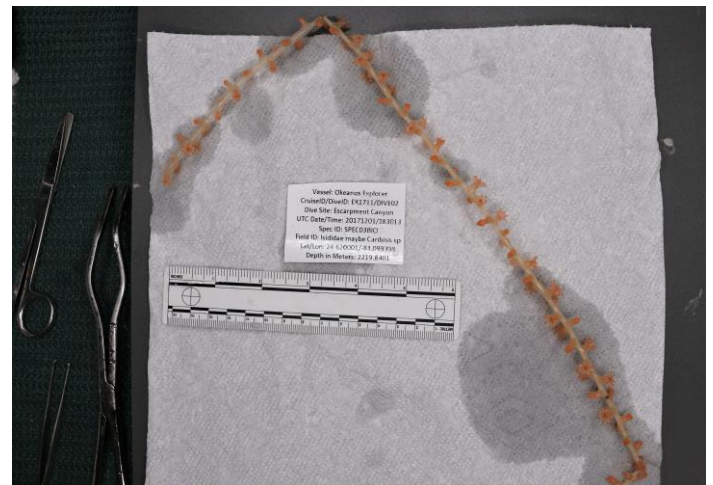
Sample Information

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

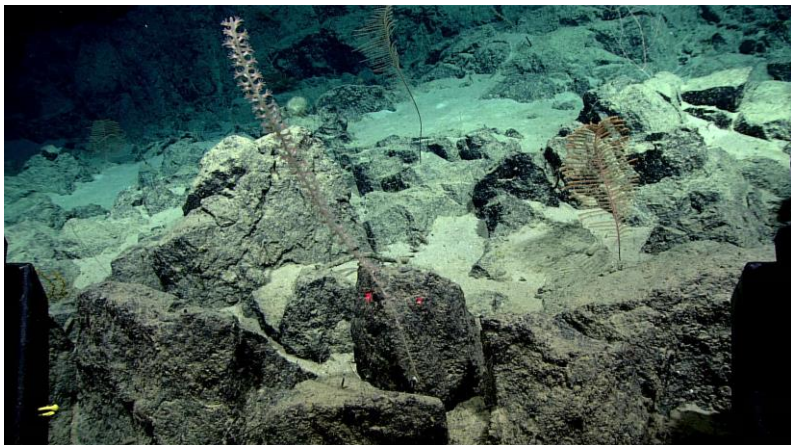
Taxonomy

Order Alcyonacea

Family Isididae

Genus *Bathygorgia*

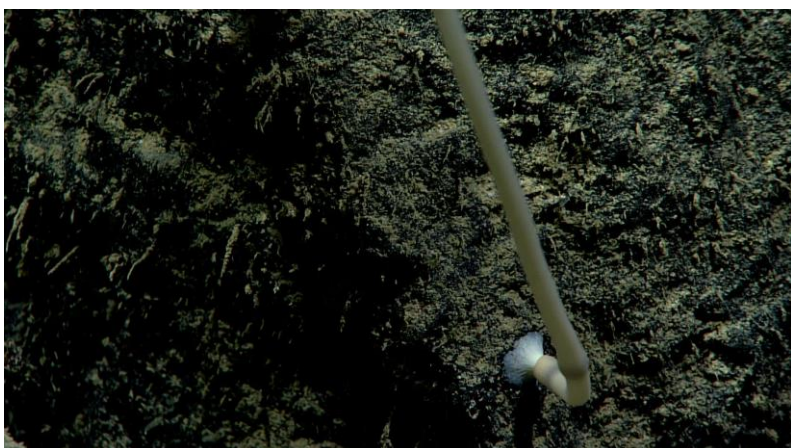
ID Verification Status unconfirmed



EX1803_IMG_20180501T152352Z_ROVHD



EX1803_IMG_20180501T152130Z_ROVHD



EX1803_IMG_20180501T152315Z_ROVHD

Metadata

SurveyID EX1803

EventID Dive14

Region Gulf of Mexico

Locality Escarpment Canyon Ridge

Latitude 24.58000

Longitude -84.26990

Depth (m) 2361

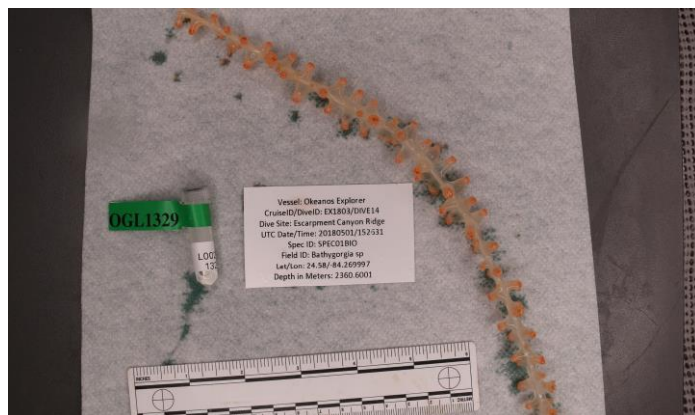
Sample Information

Field Sample Number D14_SPEC01_BIO

USNM# 1507329

DSCRTP Catalog Number 971742

Description Pink-white, unbranched, large bilaterally alternating polyps



EX1803_IMG_20180501T152631Z_SMPSTL_D2_DIVE14_SPEC01BIO_L01

Scientific Name *Isidella* sp.

ALC029

Scientific Name Authorship Gray, 1857

Identified by Wagner, Daniel

Taxonomy

Order Alcyonacea

Family Isididae

Genus *Isidella*

ID Verification Status unconfirmed



EX1803_IMG_20180501T192637Z_ROVHD

Metadata

SurveyID EX1803

EventID Dive14

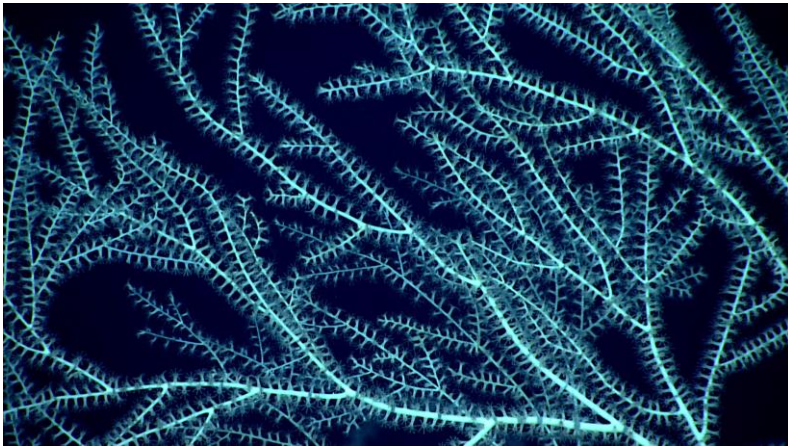
Region Gulf of Mexico

Locality Escarpment Canyon Ridge

Latitude 24.57000

Longitude -84.26990

Depth (m) 2275



EX1803_IMG_20180501T192637Z_ROVHD

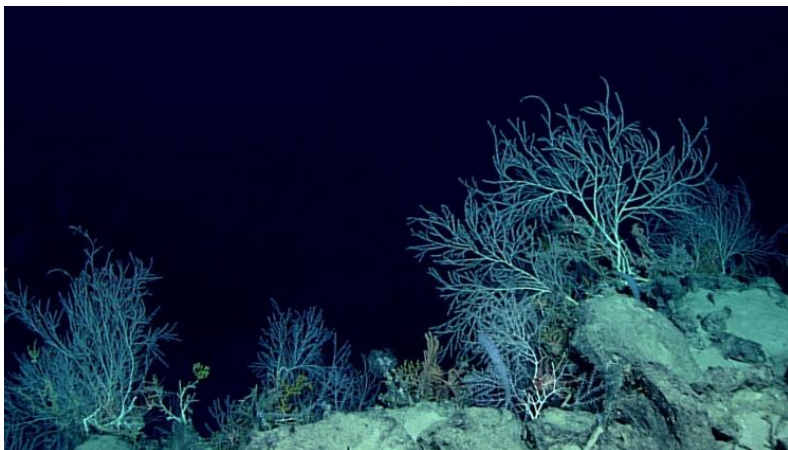
Sample Information

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_20180501T193214Z_ROVHD



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

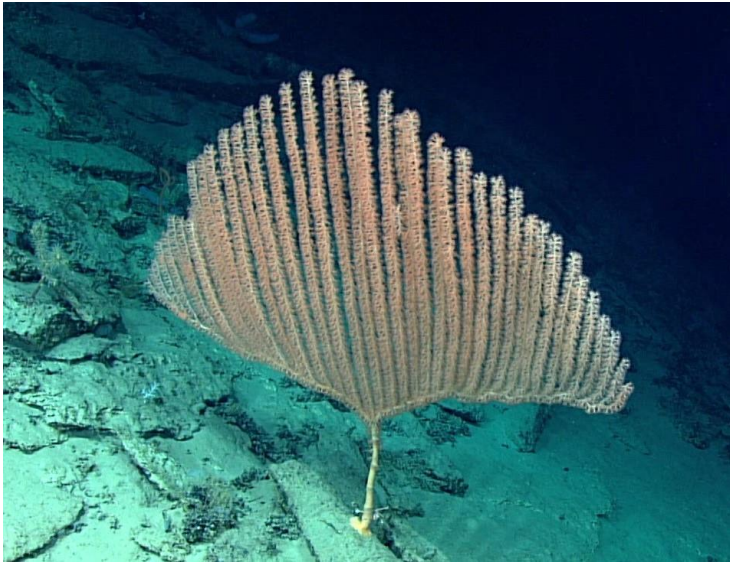
Specimen not collected

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

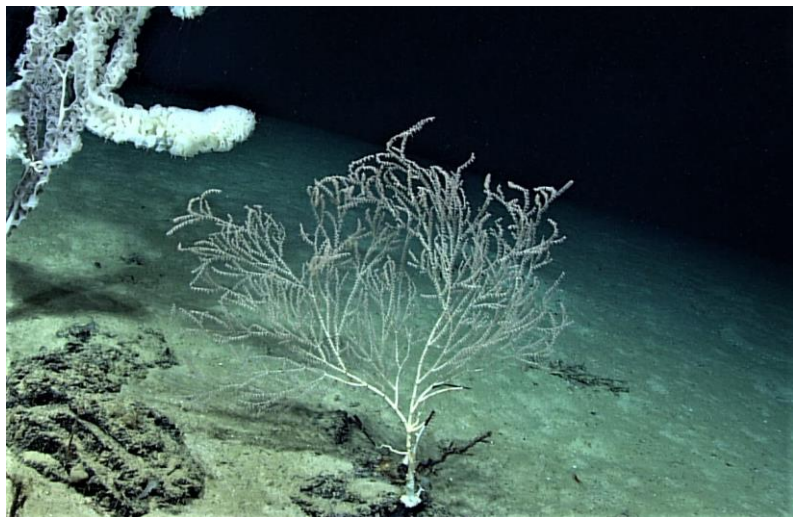
Order Alcyonacea (sea fans and soft corals)

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_L0

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

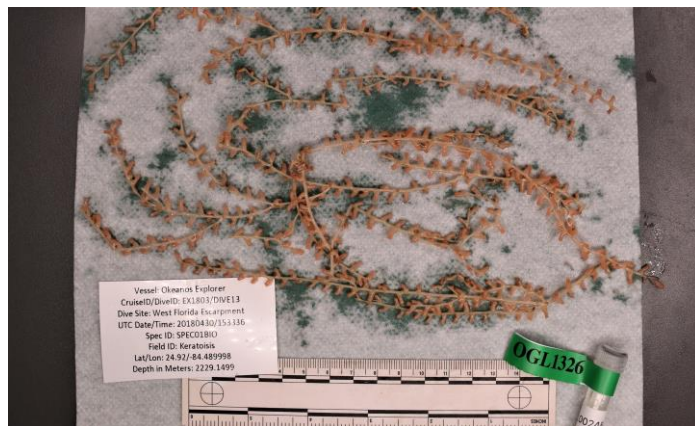
Sample Information

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

Taxonomy

Order Alcyonacea

Family Isididae

Genus *Keratoisis*

ID Verification Status **unconfirmed**



SE1051a_Keratoisis_811.jpg

Metadata

SurveyID EX1806

EventID Dive07

Region Southeast US

Locality Richardson Ridge

Latitude 31.77002

Longitude -77.36280

Depth (m) 811



SE1051b_Keratoisis_811.jpg

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

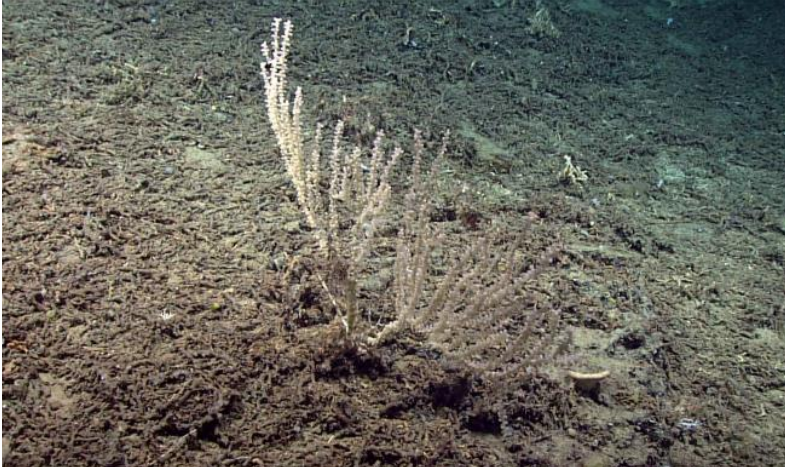
Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1903L2_IMG_20190701T173519Z_ROVHD

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

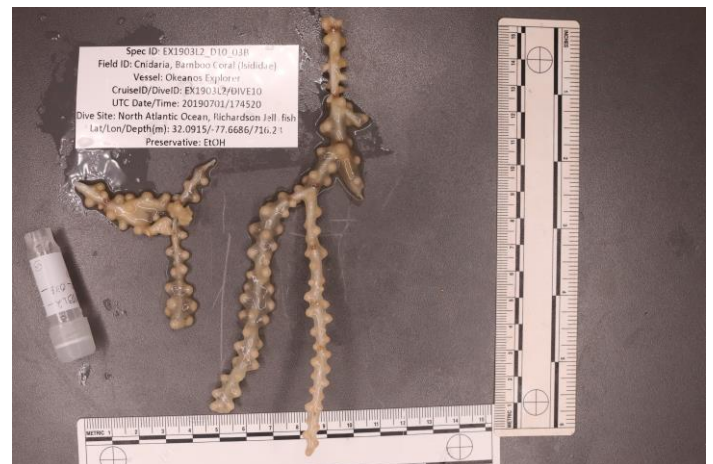
USNM# 1580841

DSCRTP Catalog Number Not available

Description Beige, branches with nodes, fleshy large polyps



EX1903L2_IMG_20190701T173904Z_ROVHD



EX1903L2_IMG_20190701T174520Z_SMPSTL_D10_03B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae**

ALC020

Scientific Name Authorship **Lamouroux, 1812**

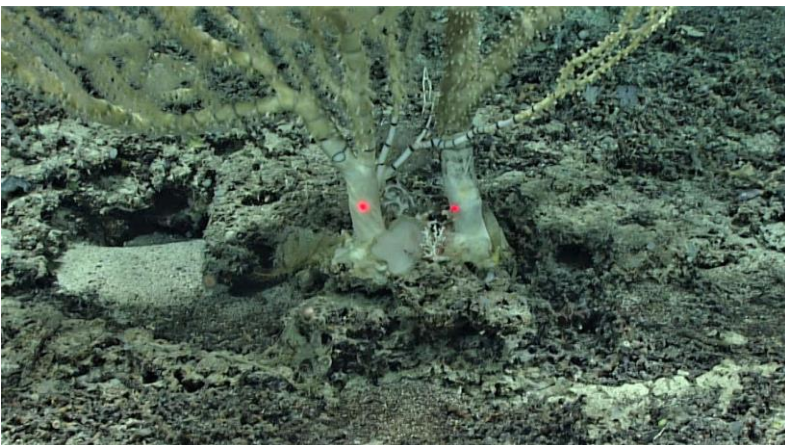
Identified by Salgado, Enrique



EX1903L2_IMG_20190623T181334Z_ROVHD



EX1903L2_IMG_20190623T181522Z_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

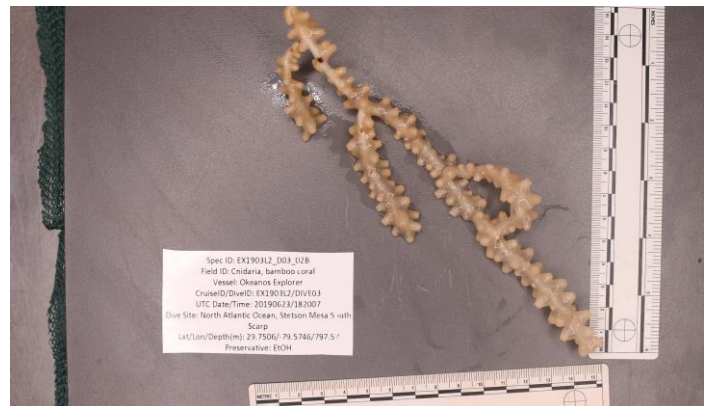
Sample Information

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

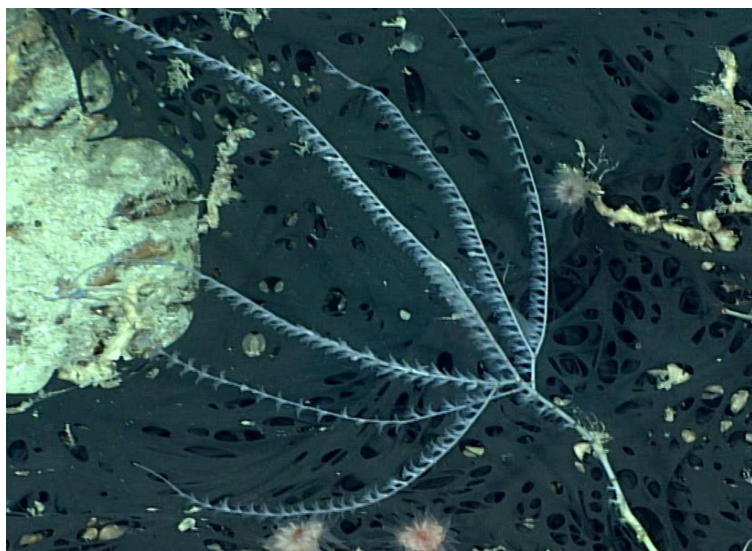
Order Alcyonacea (sea fans and soft corals)

Scientific Name *Cladarrhis* 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 *Cladarrhis*

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

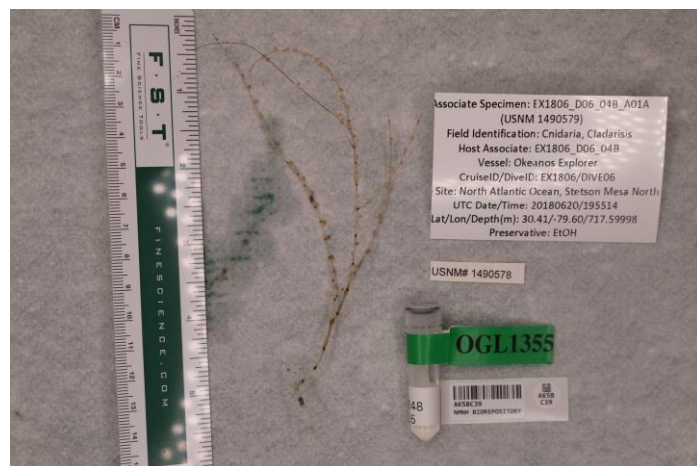
Sample Information

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_SPEC04_BIO_A01_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Isididae**

ALC022

Scientific Name Authorship **Lamouroux, 1812**

Identified by Morrison, Cheryl

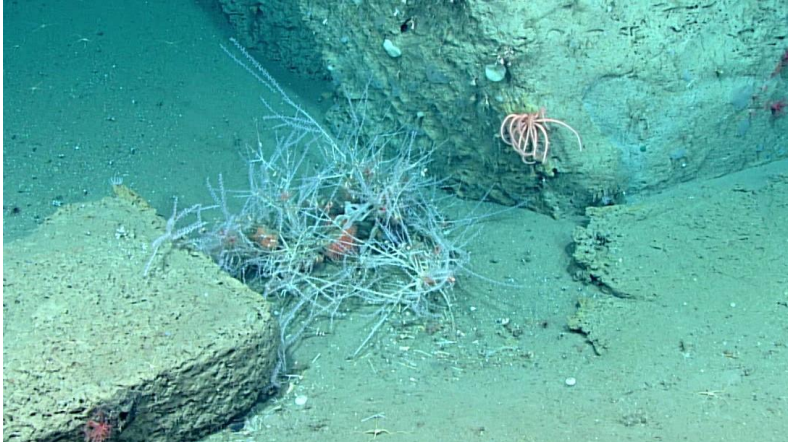
Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1806_IMG_20180701T144000Z_ROVHD.jpg



EX1806_IMG_20180701T144017Z_ROVHD.jpg

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

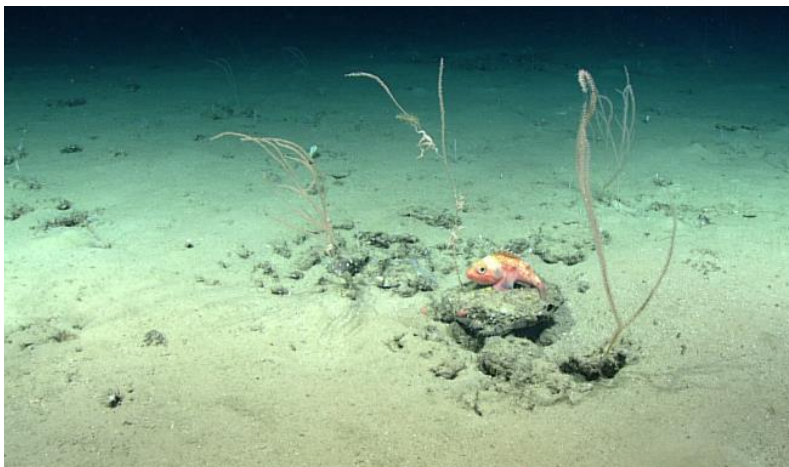
Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1711_IMG_20171203T202141Z_ROVHD

Metadata

SurveyID EX1711

EventID Dive04

Region Gulf of Mexico

Locality Long Mounds

Latitude 26.45000

Longitude -84.46000

Depth (m) 383



EX1711_IMG_20171203T202341Z_ROVHD

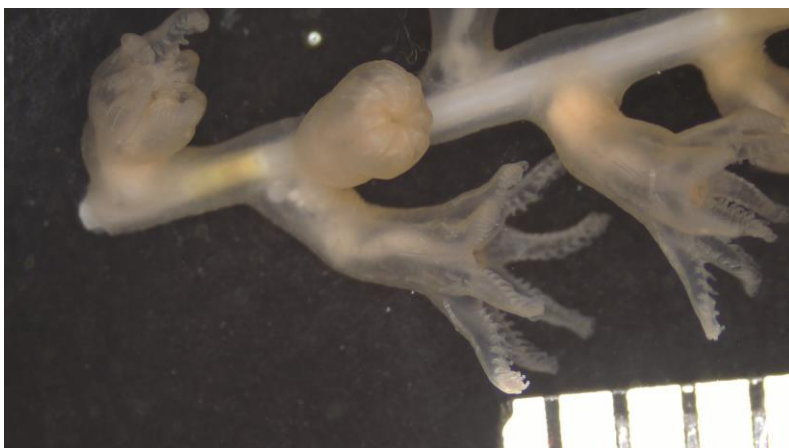
Sample Information

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_M0

3



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**

Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1903L2_IMG_20190621T191935Z_ROVHD

Metadata

SurveyID EX1903

EventID Dive01

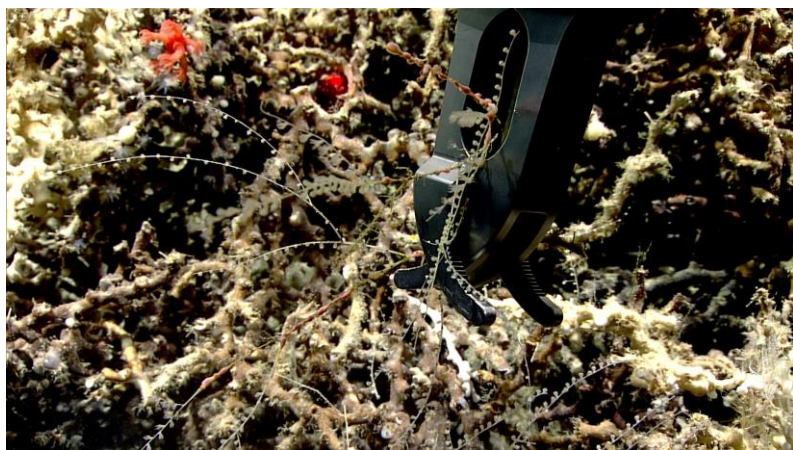
Region Southeast US

Locality Canaveral Deep

Latitude 28.24680

Longitude -79.59670

Depth (m) 722



EX1903L2_IMG_20190621T192239Z_ROVHD

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

Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1806_IMG_20180617T171703Z_ROVHD.jpg

Metadata

SurveyID EX1806

EventID Dive04

Region Southeast US

Locality Blake Escarpment South

Latitude 30.94044

Longitude -77.33013

Depth (m) 1249



EX1806_IMG_20180617T171740Z_ROVHD.jpg

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

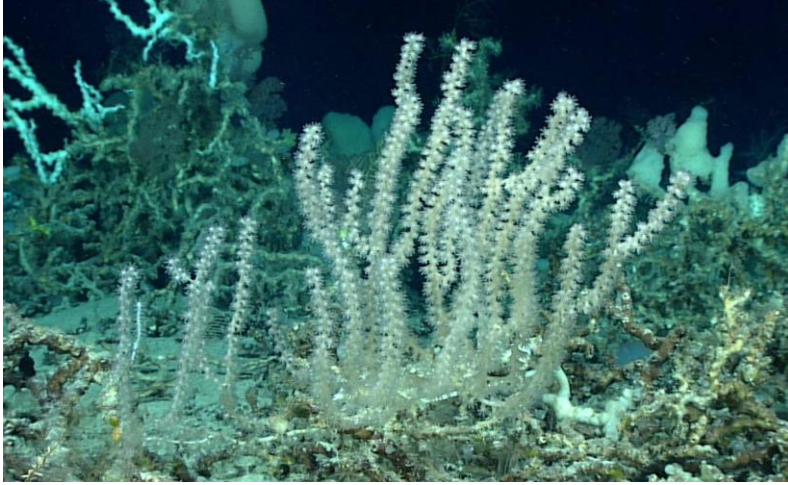
Taxonomy

Order Alcyonacea

Family Isididae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1806_IMG_20180619T151929Z_ROVHD.jpg



EX1806_IMG_20180619T151816Z_ROVHD.jpg

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

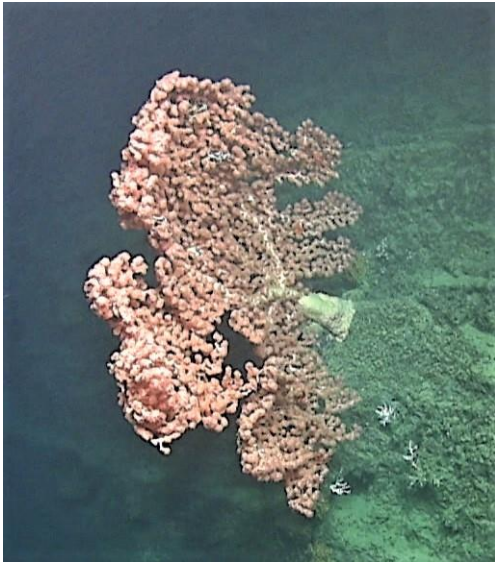
Order Alcyonacea (sea fans and soft corals)

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 knobby 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

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

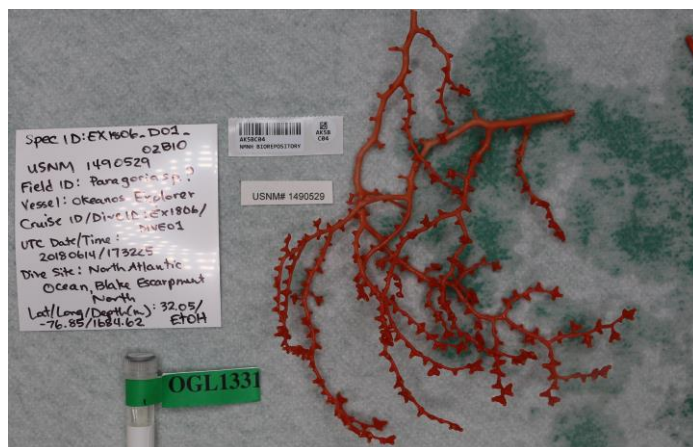
Description Pink, complex planar branching, large sparse polyps



EX1806_IMG_20180614T170807Z_ROVHD.jpg



EX1806_IMG_20180614T172521Z_D2_DIVE01_SPEC02BIO_04.jpg



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

Taxonomy

Order Alcyonacea

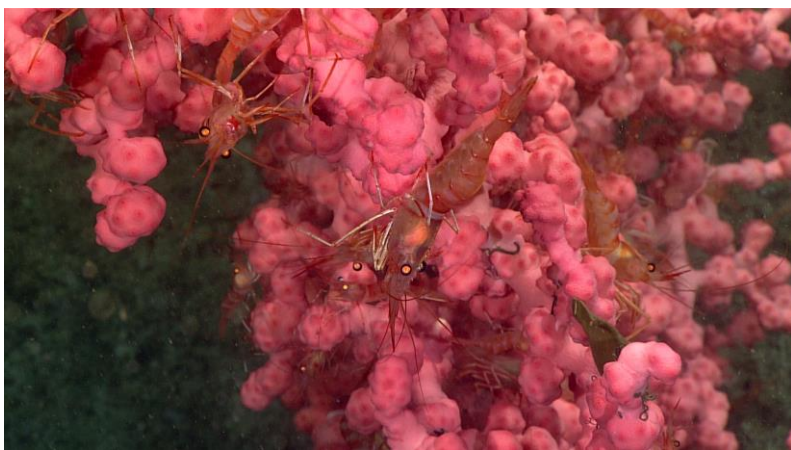
Family Paragorgiidae

Genus *Paragorgia*

ID Verification Status unconfirmed



EX1903L2_IMG_20190710T192456Z_ROVHD



EX1903L2_IMG_20190710T190414Z_ROVHD

Metadata

SurveyID EX1903

EventID Dive18

Region Southeast US

Locality Baltimore Canyon

Latitude 38.12050

Longitude -73.84930

Depth (m) 508

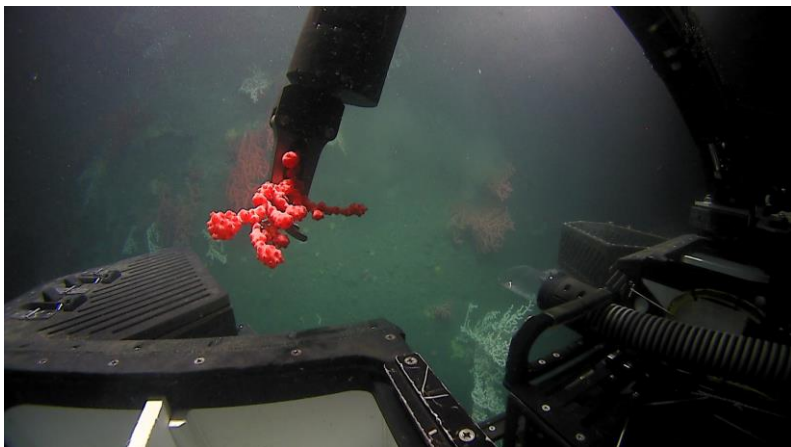
Sample Information

Field Sample Number EX1903L2_D18_02B

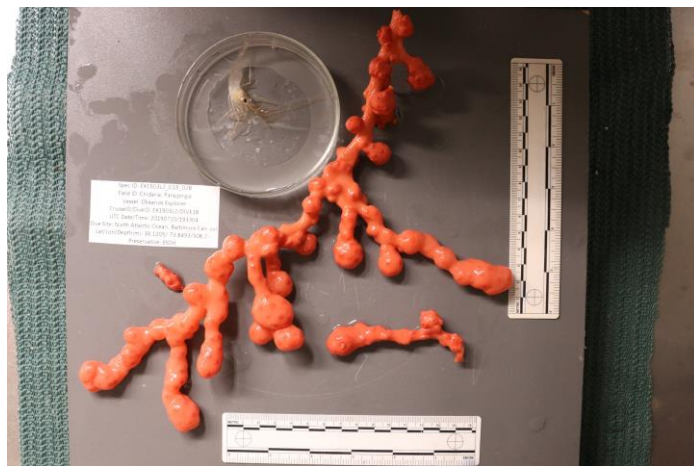
USNM# 1580875

DSCRTP Catalog Number Not available

Description Red-white, thick knobby branches, large polyps



EX1903L2_IMG_20190710T193157Z_D18_02B_04



EX1903L2_IMG_20190710T193304Z_SMPSTL_D18_02B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Paramuricea* sp.

ALC044

Scientific Name Authorship Kölliker, 1865

Identified by Salgado, Enrique

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Paramuricea*

ID Verification Status unconfirmed



EX1806_IMG_20180619T190102Z_ROVHD.jpg



EX1806_IMG_20180619T190004Z_ROVHD.jpg

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

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Paramuricea*

ID Verification Status **unconfirmed**



EX1711_IMG_20171217T214121Z_ROVHD



EX1711_IMG_20171217T214121Z_ROVHD

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

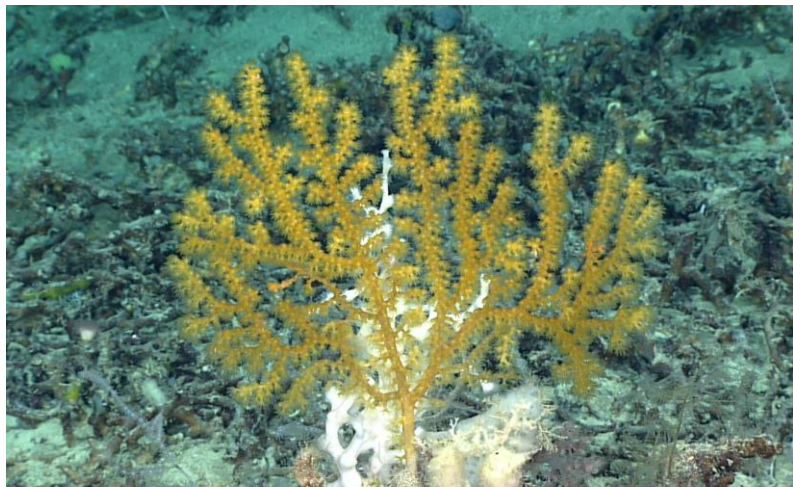
Taxonomy

Order Alcyonacea

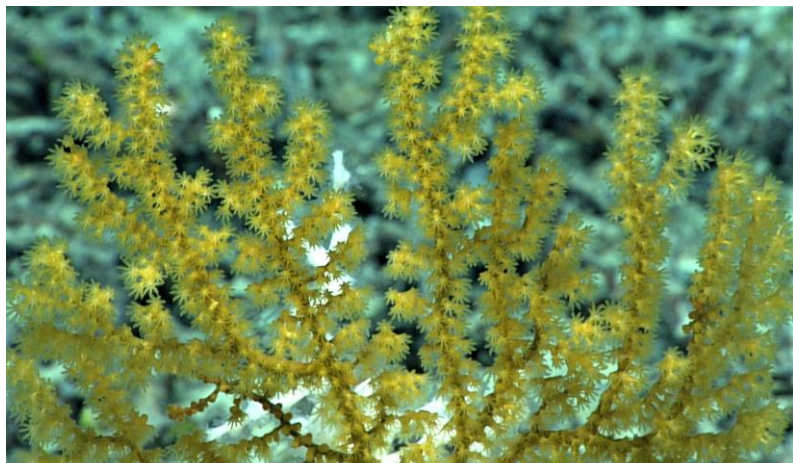
Family Plexauridae

Genus *Paramuricea*

ID Verification Status unconfirmed



EX1806_IMG_20180619T153123Z_ROVHD.jpg



EX1806_IMG_20180619T153217Z_ROVHD.jpg

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

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

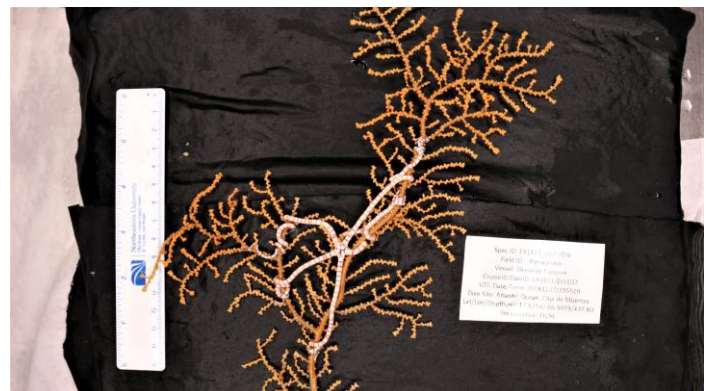
Description Yellow-brown, complex planar branching, large polyps



EX1811_IMG_20181107T194854Z_ROVHD



EX1811_IMG_20181107T194712Z_ROVHD



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

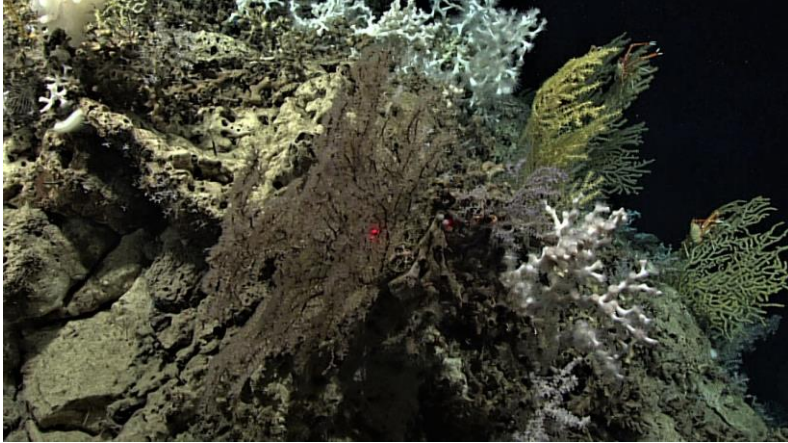
Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Paramuricea*

ID Verification Status unconfirmed



EX1803_IMG_20180428T192434Z_ROVHD



EX1803_IMG_20180428T192701Z_ROVHD

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_SPEC04_BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Paramuricea* sp.

ALC051

Scientific Name Authorship Kölliker, 1865

Identified by Weinnig, Alexis

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Paramuricea*

ID Verification Status unconfirmed



EX1903L2_IMG_20190709T193533Z_ROVHD



EX1903L2_IMG_20190709T193533Z_ROVHDb

Metadata

SurveyID EX1903

EventID Dive17

Region Southeast US

Locality Wilmington Canyon

Latitude 38.32170

Longitude -73.42690

Depth (m) 1398

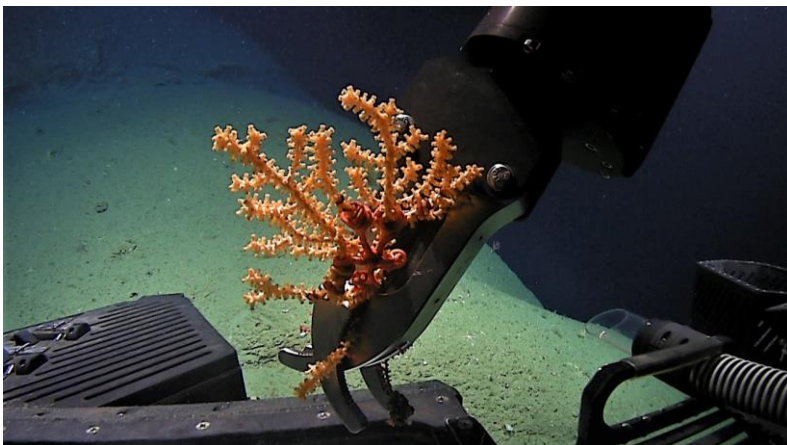
Sample Information

Field Sample Number EX1903L2_D17_02B_A

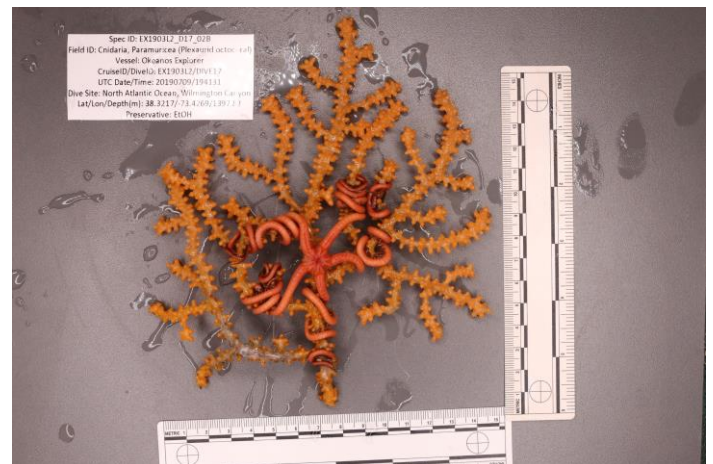
USNM# 1580867

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

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

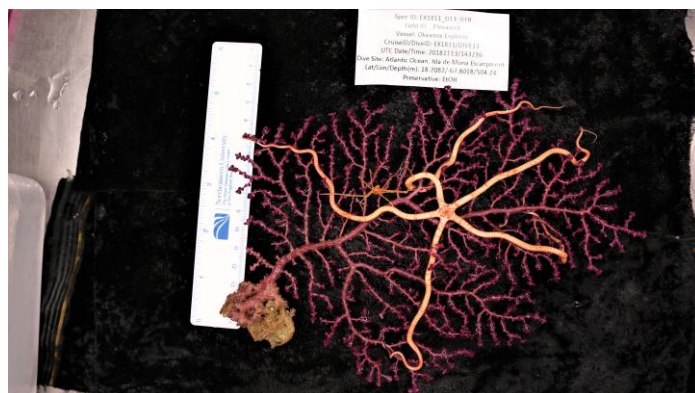
Description Purple, planar complex branching, alternating polyps



EX1811_IMG_20181113T142800Z_ROVHD



EX1811_IMG_20181113T142730Z_ROVHD



EX1811_IMG_20181113T143236Z_SMPSTL_D2_DIVE13_SPEC1BIO_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Swiftia koreni*

ALC077

Scientific Name Authorship Duchassaing & Michelotti, 1864

Identified by Frometa, Janessy

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Swiftia*

ID Verification Status unconfirmed



EX1907_IMG_20191115T182715Z_ROVHD



EX1907_IMG_20191115T182629Z_ROVHD



EX1907_IMG_20191119T153235Z_ROVHD

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 dubia*

ALC048

Scientific Name Authorship (Thomson, 1929)

Identified by Frometa, Janessy

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Swiftia*

ID Verification Status confirmed by genetic analysis

Metadata

SurveyID EX1903

EventID Dive17

Region Southeast US

Locality Wilmington Canyon

Latitude 38.32170

Longitude -73.42690

Depth (m) 1398

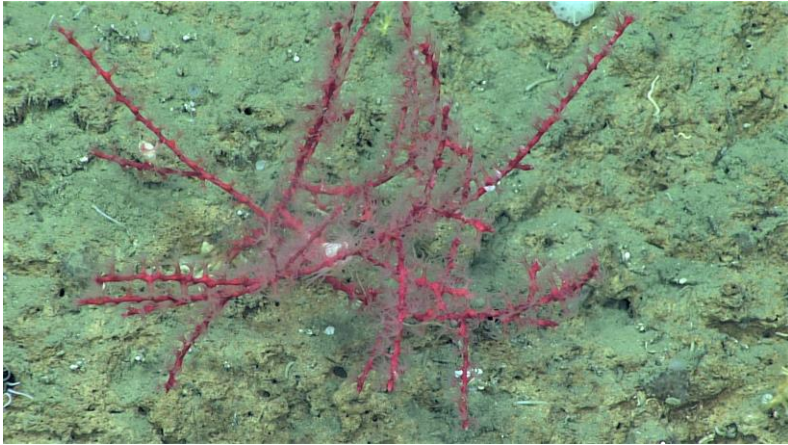
Sample Information

Field Sample Number EX1903L2_D17_02B_A

USNM# 1580868

DSCRTP Catalog Number Not available

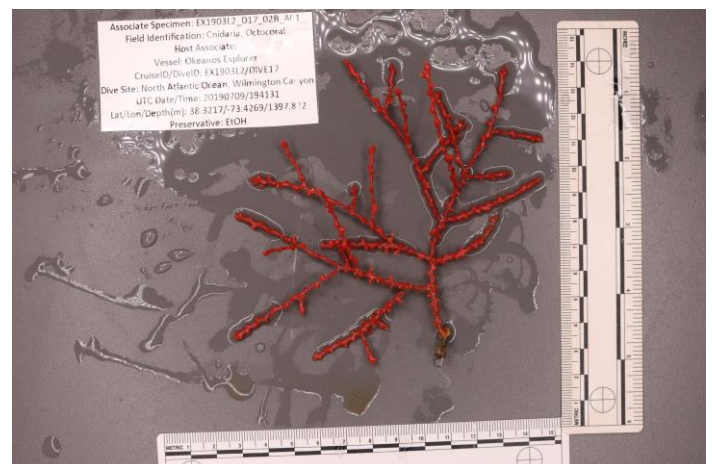
Description Red, simple branching, large polyps



EX1903L2_IMG_20190709T190603Z_ROVHD



EX1903L2_IMG_20190709T163057Z_ROVHD



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 Frometa, Janessy



EX1806_IMG_20180619T182452Z_ROVHD.jpg



EX1806_IMG_20180619T183234Z_ROVHD.jpg

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Swiftia*

ID Verification Status **unconfirmed**

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 *Swiftia casta*

ALC041

Scientific Name Authorship (Verrill, 1883)

Identified by Frometa, Janessy

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Swiftia*

ID Verification Status confirmed by genetic analysis

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

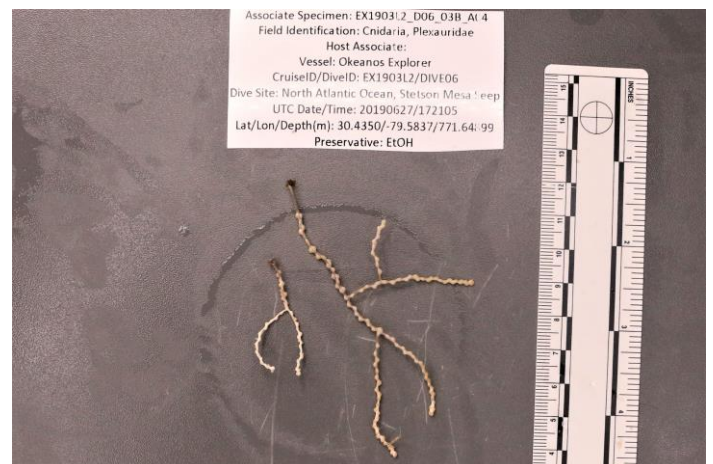
Description White, simple branching, polyps alternating bilaterally



EX1903L2_IMG_20190627T172234Z_ROVHD



EX1903L2_IMG_20190627T172214Z_ROVHD



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**

Taxonomy

Order Alcyonacea

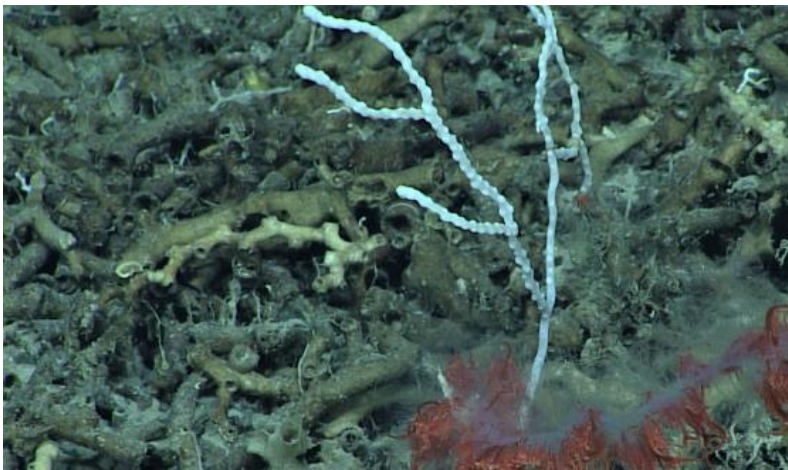
Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1903L2_IMG_20190624T192930Z_ROVHD



EX1903L2_IMG_20190624T192435Z_ROVHD

Metadata

SurveyID EX1903

EventID Dive04

Region Southeast US

Locality Blake Plateau Knolls

Latitude 29.64920

Longitude -78.45530

Depth (m) 769

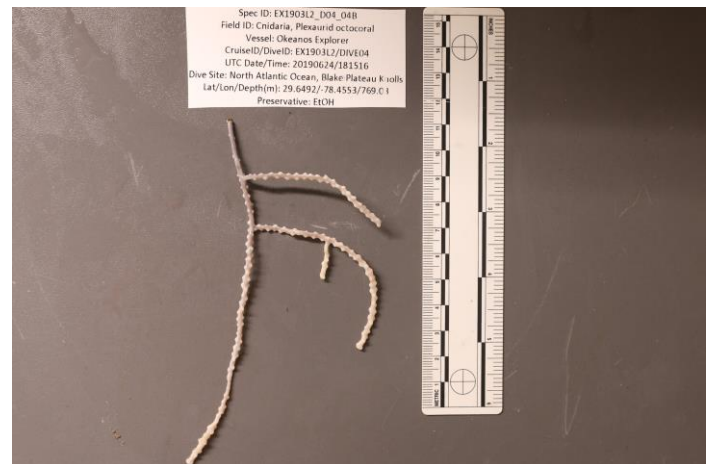
Sample Information

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**

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1903L2_IMG_20190701T184131Z_ROVHD

Metadata

SurveyID EX1903

EventID Dive10

Region Southeast US

Locality Richardson Jellyfish

Latitude 32.09010

Longitude -77.66890

Depth (m) 639



EX1903L2_IMG_20190701T184104Z_ROVHD

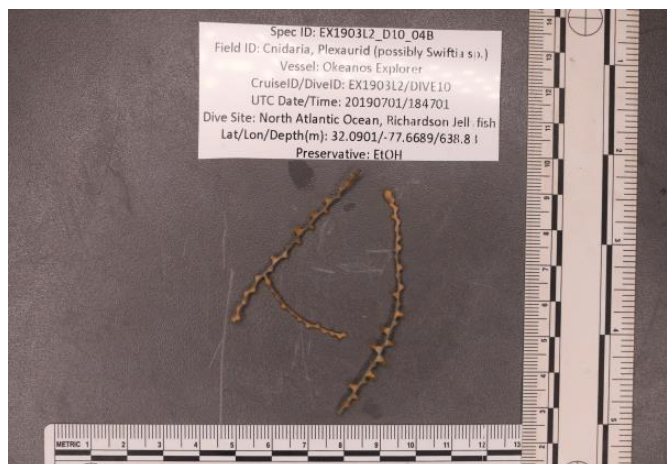
Sample Information

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

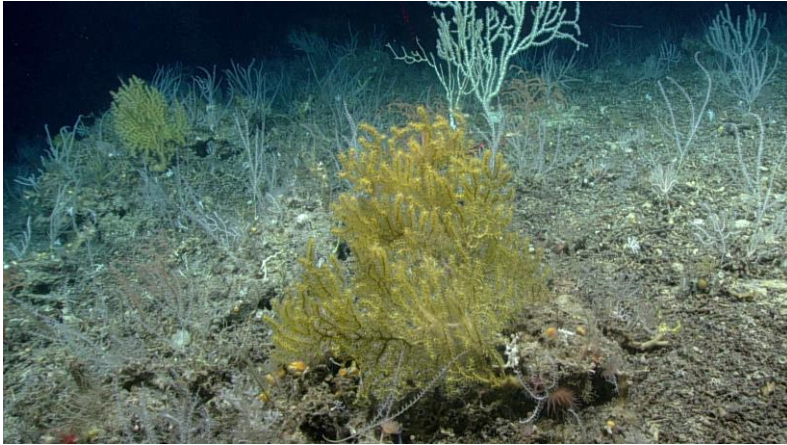
Taxonomy

Order Alcyonacea

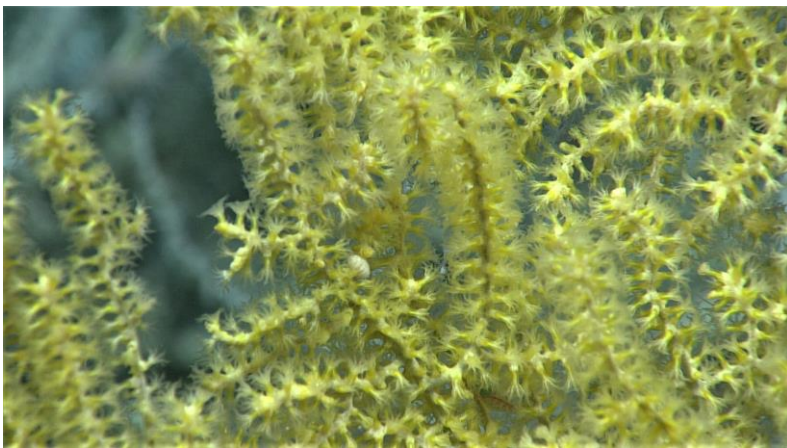
Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1907_IMG_20191102T164937Z_ROVHD



EX1907_IMG_20191102T164532Z_ROVHD

Metadata

SurveyID EX1907

EventID Dive02

Region Southeast US

Locality Stetson Mesa East

Latitude 29.58640

Longitude -79.12290

Depth (m) 749

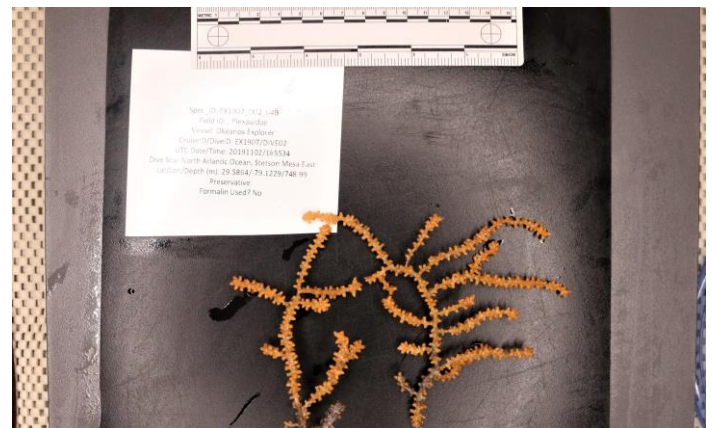
Sample Information

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

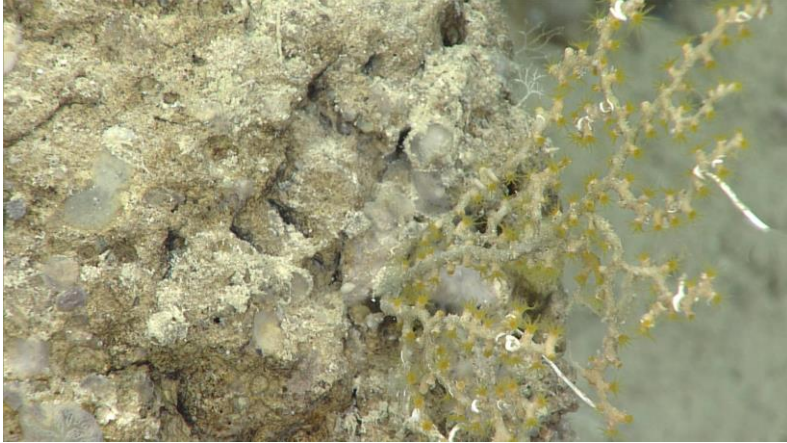
Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1811_IMG_20181104T183234Z_ROVHD

Metadata

SurveyID EX1811

EventID Dive04

Region US Caribbean

Locality St. Croix Amphitheater

Latitude 17.58990

Longitude -64.88760

Depth (m) 457



EX1811_IMG_20181104T183736Z_ROVHD

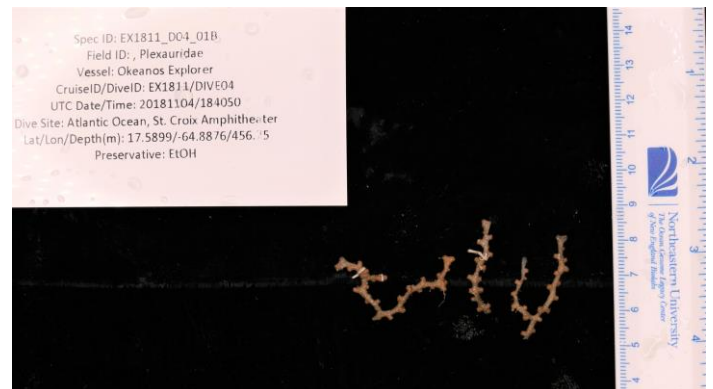
Sample Information

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_SPEC1BIO_L02

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae**

ALC046

Scientific Name Authorship **Gray, 1859**

Identified by **Weinnig, Alexis**

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1903L2_IMG_20190622T182220Z_ROVHD



EX1903L2_IMG_20190622T182204Z_ROVHD



EX1903L2_IMG_20190622T182500Z_D02_02B_04

Metadata

SurveyID EX1903

EventID Dive02

Region Southeast US

Locality Stetson Mesa South

Latitude 29.10990

Longitude -79.44670

Depth (m) 740

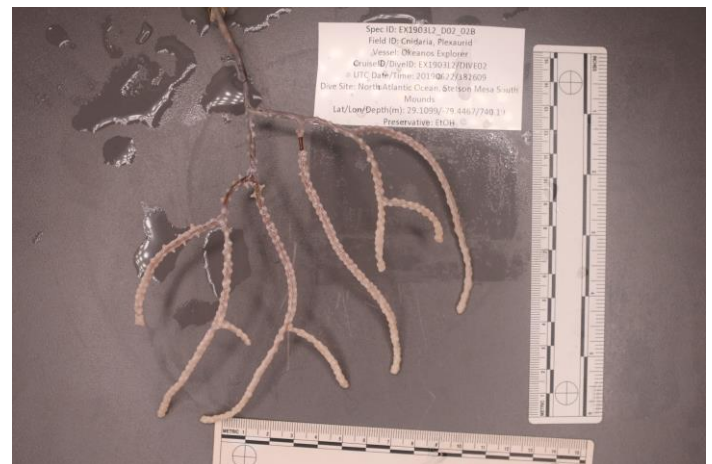
Sample Information

Field Sample Number EX1903L2_D02_02B

USNM# 1580767

DSCRTP Catalog Number Not available

Description **White, simple branching, polyps alternating bilaterally**



EX1903L2_IMG_20190622T182609Z_SMPSTL_D02_02B_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Plexauridae**

ALC045

Scientific Name Authorship **Gray, 1859**

Identified by Salgado, Enrique

Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1811_IMG_20181104T175314Z_ROVHD



EX1811_IMG_20181104T175413Z_ROVHD

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

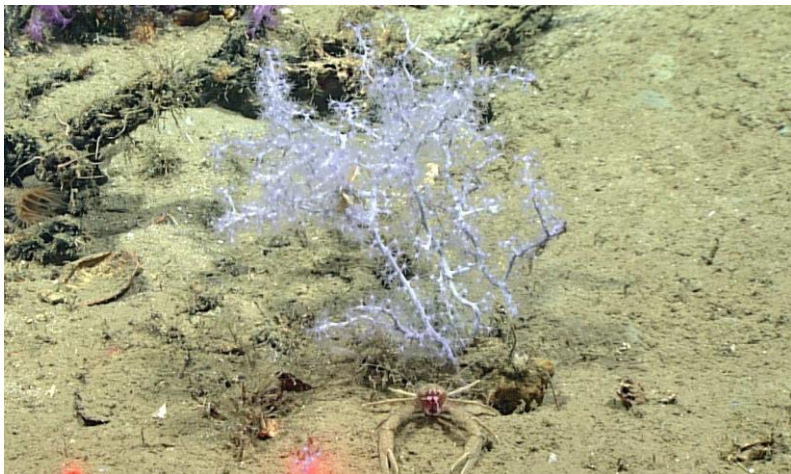
Taxonomy

Order Alcyonacea

Family Plexauridae

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1711_IMG_20171211T154647Z_ROVHD.jpg



EX1711_IMG_20171211T154758Z_ROVHD.jpg

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

Taxonomy

Order Alcyonacea
Family Plexauridae
Genus *Unknown*

ID Verification Status **unconfirmed**

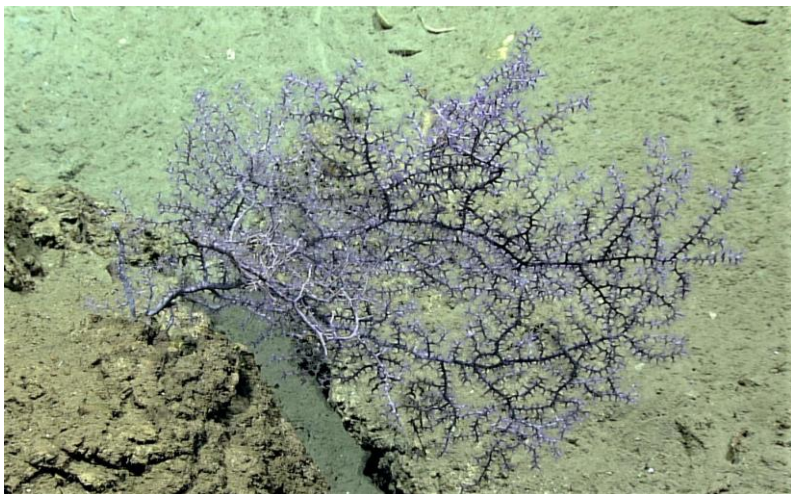
Metadata

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

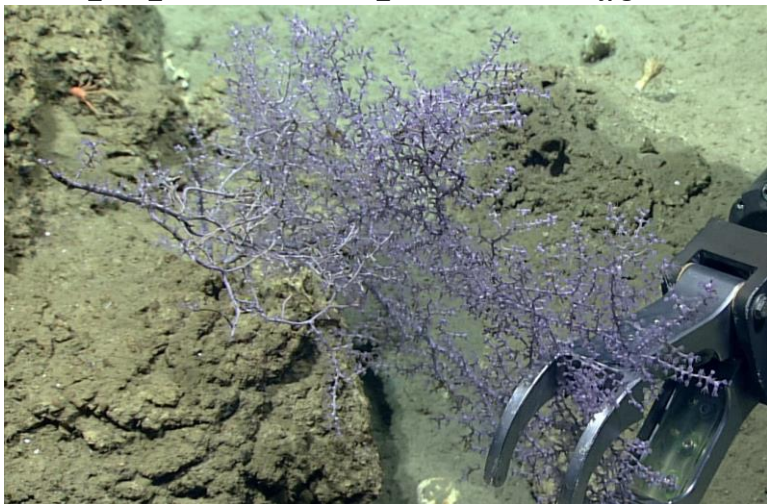
Sample Information

Field Sample Number D14_SPEC02_BIO
USNM# 1483041
DSCRTP Catalog Number 950100

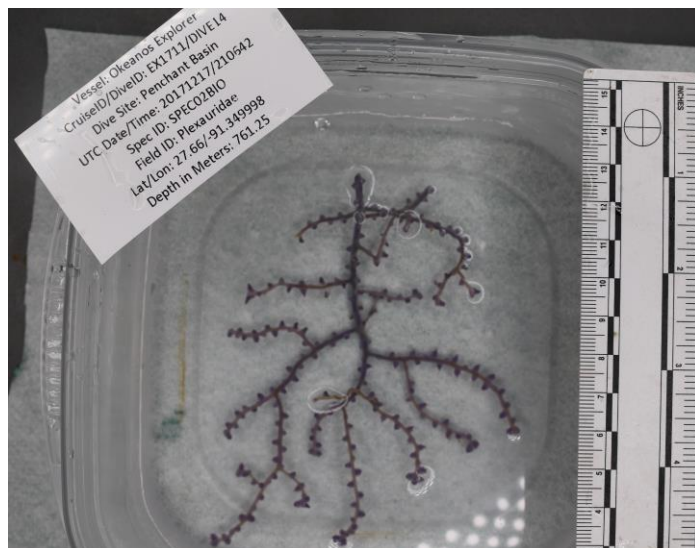
Description Purple, planar and dense arborescent branching, sparse bilateral calices



EX1711_IMG_20171217T210024Z_ROVHDSPEC02BIO.jpg



EX1711_IMG_20171217T210421Z_ROVHDSPEC02BIO.jpg



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

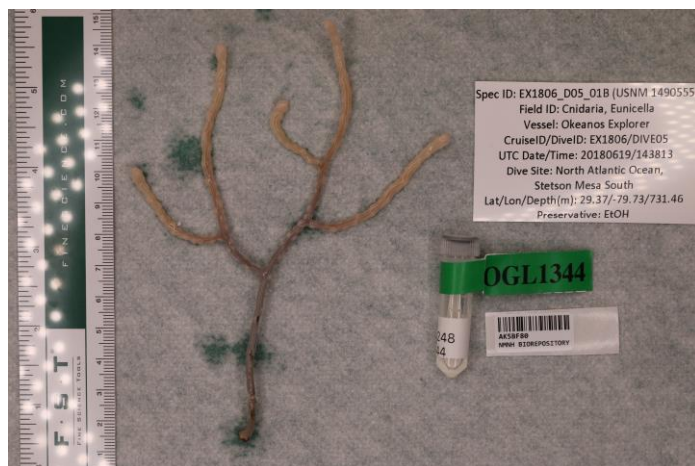
Sample Information

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

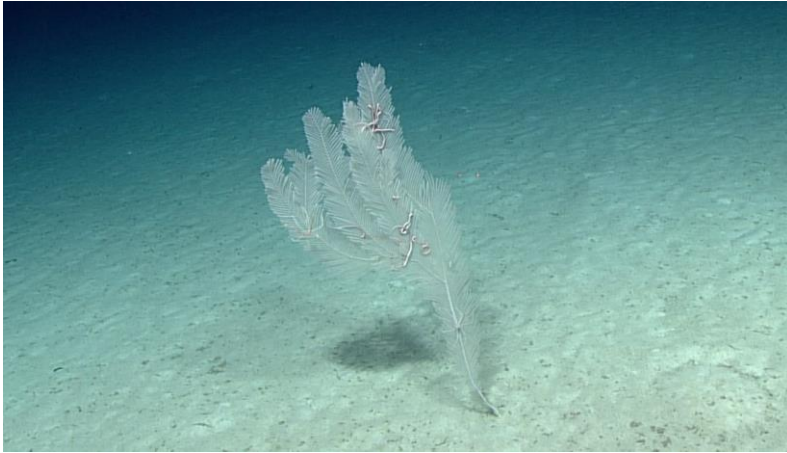
Taxonomy

Order Alcyonacea

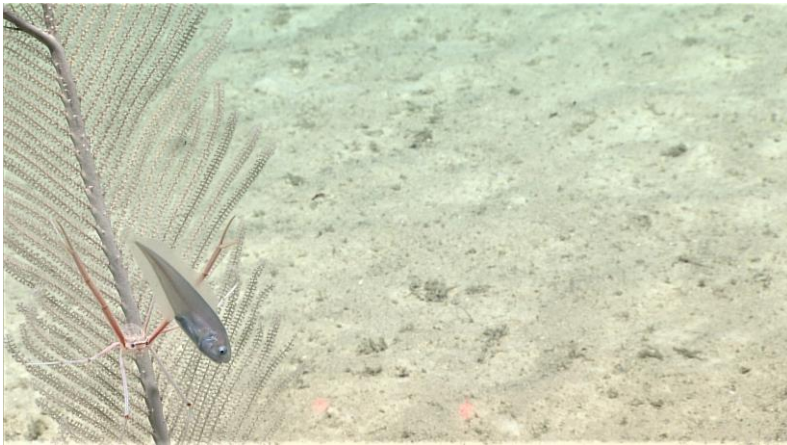
Family Primnoidae

Genus *Callogorgia*

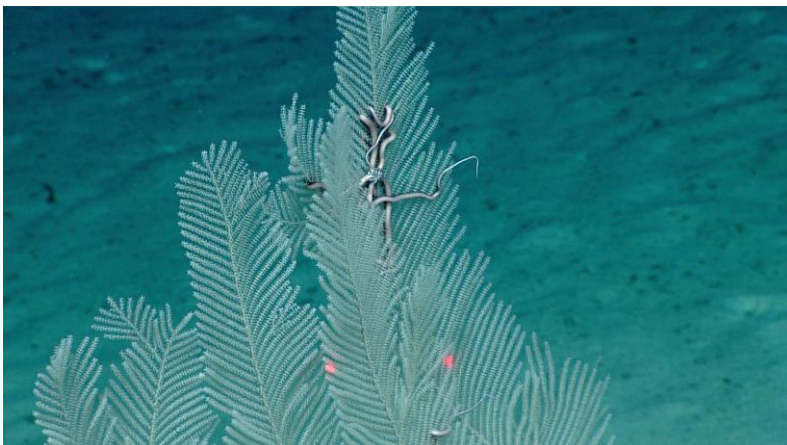
ID Verification Status **confirmed by taxonomic analysis**



EX1811_IMG_20181101T180357Z_ROVHD



EX1811_IMG_20181101T180504Z_ROVHD



EX1811_IMG_20181101T180306Z_ROVHD

Metadata

SurveyID EX1811

EventID Dive02

Region US Caribbean

Locality East of Vieques 2

Latitude 18.17000

Longitude -64.99000

Depth (m) 554

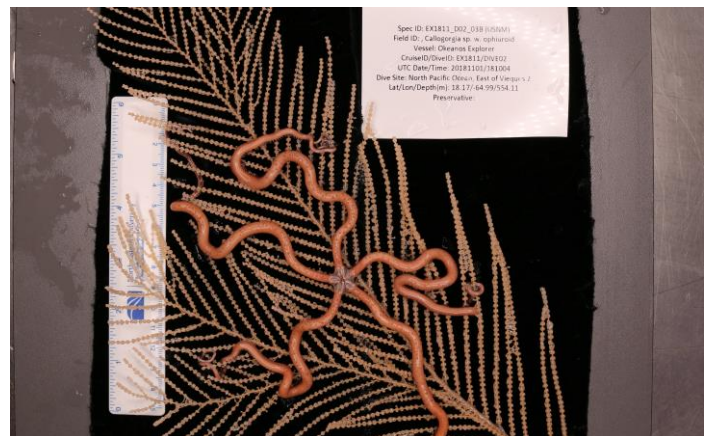
Sample Information

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



EX1811_IMG_20181101T181004Z_SMPSTL_D2_DIVE02_SPEC03BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Candidella imbricata*

ALC062

Scientific Name Authorship (Johnson, 1862)

Identified by Cairns, Stephen

Taxonomy

Order Alcyonacea

Family Primnoidae

Genus *Candidella*

ID Verification Status confirmed by taxonomic analysis



Candidella_GM1085b_Candidella_510.jpg

Metadata

SurveyID EX1803

EventID Dive12

Region Gulf of Mexico

Locality Okeanos Ridge

Latitude 25.61000

Longitude -84.55000

Depth (m) 467



Candidella_GM1075b_Candidella_512.jpg

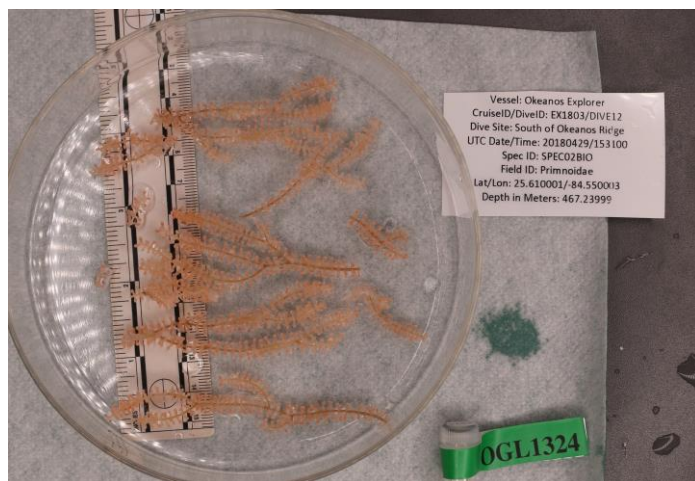
Sample Information

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

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

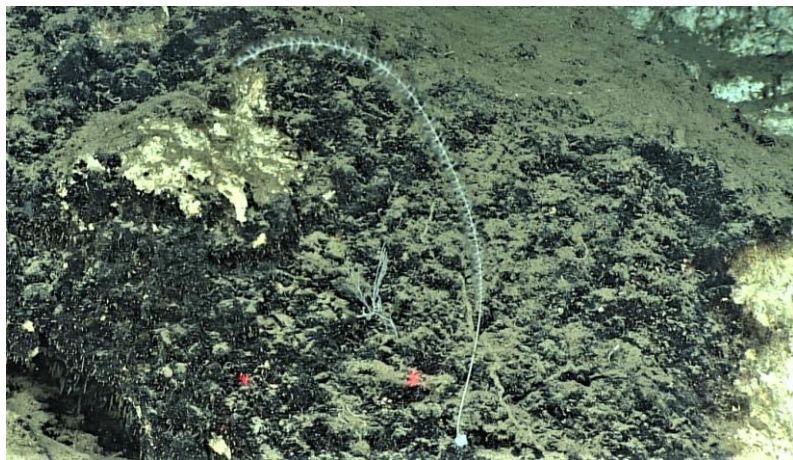
Sample Information

Field Sample Number EX1811_D12_02B

USNM# 1550645

DSCRTP Catalog Number Not available

Description White, unbranched, pairs of opposing polyps



EX1811_IMG_20181112T172353Z_ROVHD



EX1811_IMG_20181112T172240Z_ROVHD



EX1811_IMG_20181112T173430Z_SMPSTL_D2_DIVE12_SPEC02BIO_L01

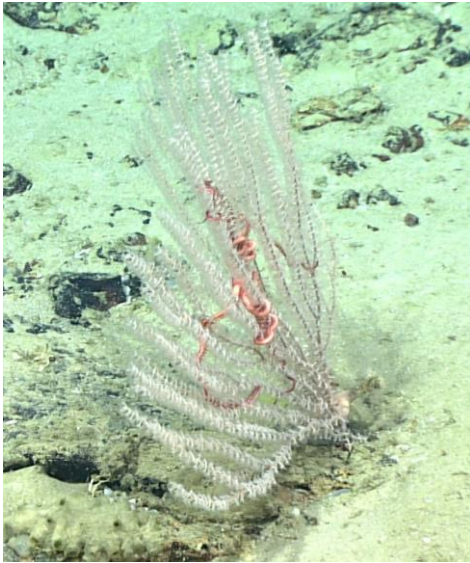
Order Alcyonacea (sea fans and soft corals)

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

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

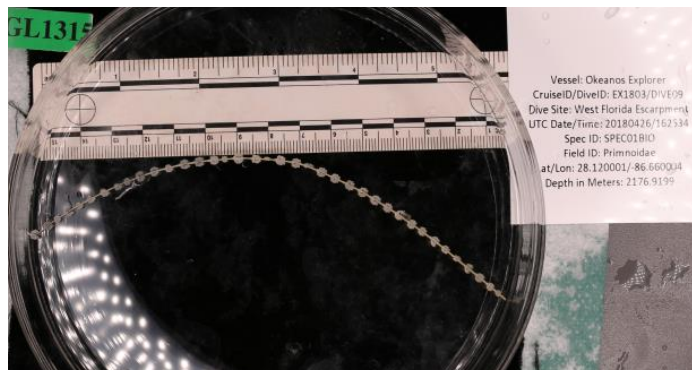
Description White, unbranched, small pairs of opposing polyps



EX1803_IMG_20180426T161447Z_ROVHD



EX1803_IMG_20180426T161512Z_ROVHD



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

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



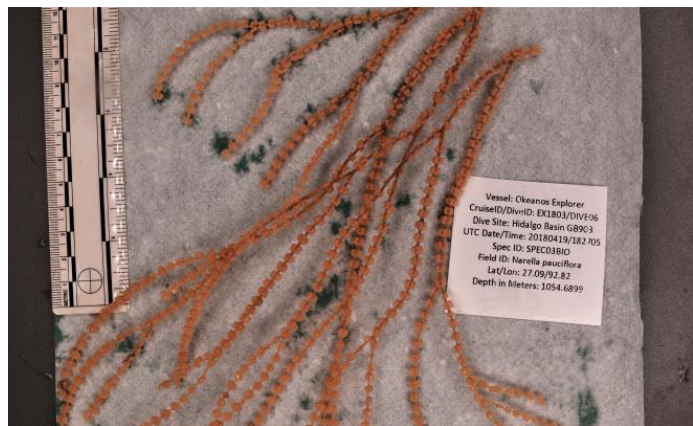
EX1803_IMG_20180419T181824Z_ROVHD



EX1803_IMG_20180419T181852Z_ROVHD



EX1803_IMG_20180419T182124Z_ROVHD



EX1803_IMG_20180419T182705Z_SMPSTL_D2_DIVE06_SPEC03BIO_L05

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Narella versluysi*

ALC055

Scientific Name Authorship (Hickson, 1909)

Identified by Cairns, Stephen

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

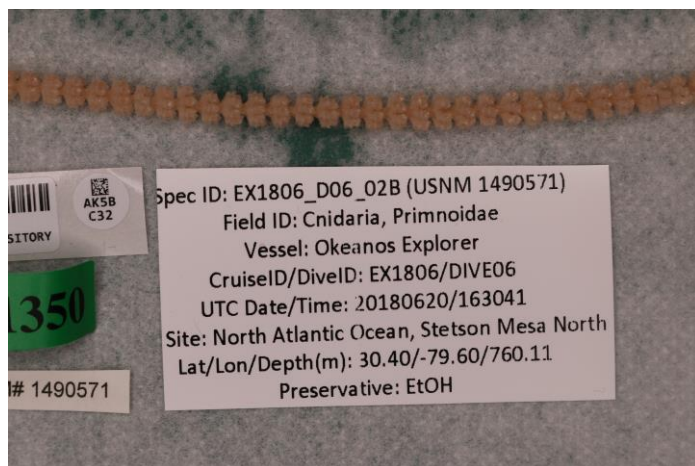
Description White, un-branched, small dense opposing polyps



EX1806_IMG_20180620T162711Z_ROVHD.jpg



EX1806_IMG_20180620T162057Z_ROVHD



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

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

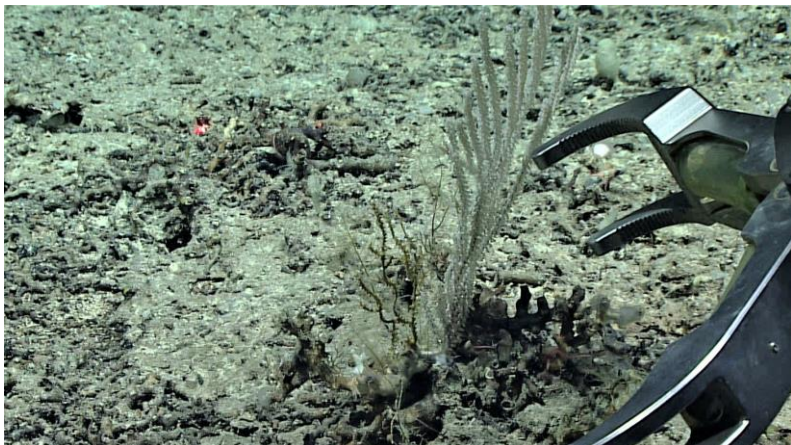
Sample Information

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



EX1903L2_IMG_20190623T162754Z_ROVHD



EX1903L2_IMG_20190623T161625Z_ROVHD



EX1903L2_IMG_20190623T162934Z_D03_01B_04



EX1903L2_IMG_20190623T162956Z_SMPSTL_D03_01B_A02_L01

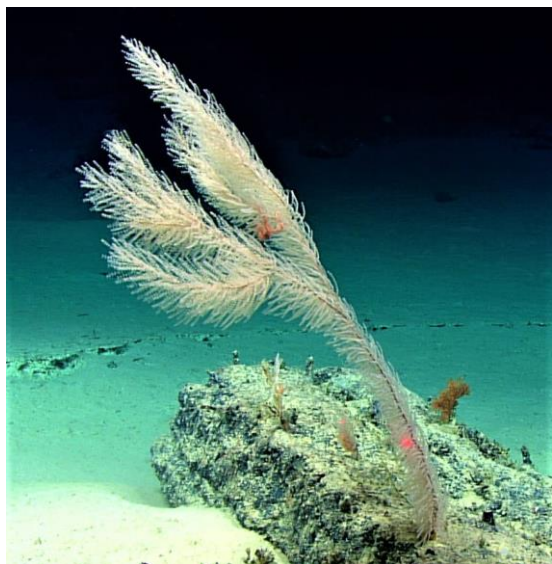
Order Alcyonacea (sea fans and soft corals)

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_SPEC04_BIO_L01.jpg

Order Alcyonacea (sea fans and soft corals)

Scientific Name *Plumarella laxiramosa*

ALC059

Scientific Name Authorship Cairns & Bayer, 2004

Identified by Cairns, Stephen

Taxonomy

Order Alcyonacea

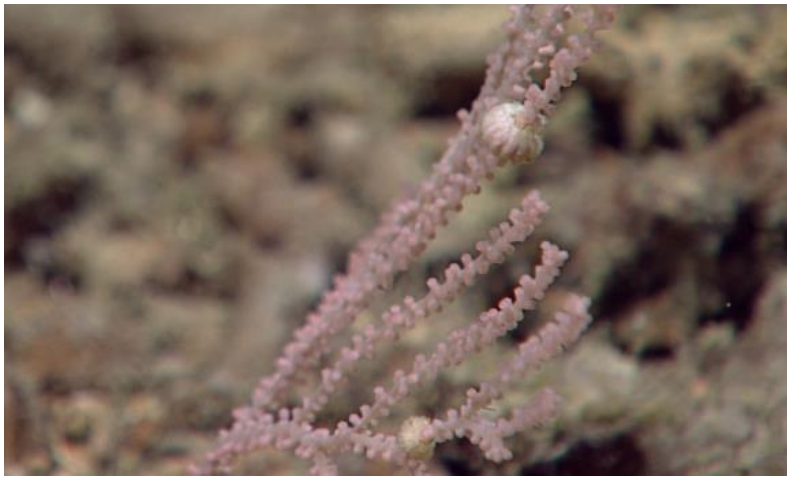
Family Primnoidae

Genus *Plumarella*

ID Verification Status confirmed by taxonomic analysis



EX1903L2_IMG_20190701T193910Z_ROVHD



EX1903L2_IMG_20190701T194106Z_ROVHD

Metadata

SurveyID EX1903

EventID Dive10

Region Southeast US

Locality Richardson Jellyfish

Latitude 32.08910

Longitude -77.67030

Depth (m) 593

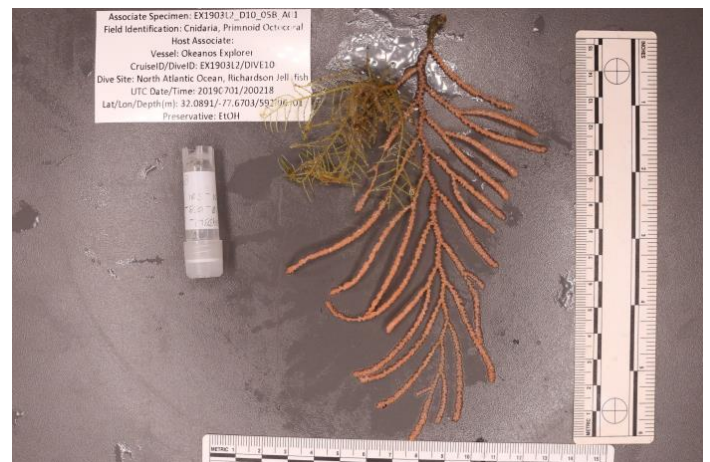
Sample Information

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 *Paracalyptophora duplex*

ALC056

Scientific Name Authorship Cairns & Bayer, 2004

Identified by Auscavitch, Steve

Taxonomy

Order Alcyonacea

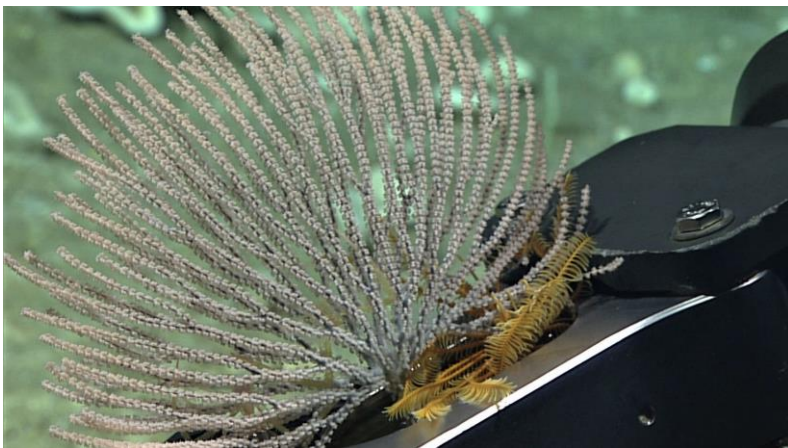
Family Primnoidae

Genus *Paracalyptophora*

ID Verification Status unconfirmed



EX1811_IMG_20181118T190545Z_ROVHD



EX1811_IMG_20181118T190931Z_ROVHD

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_SPEC2BIO_L01

Order Alcyonacea (sea fans and soft corals)

Scientific Name **Alcyonacea (Unknown)**

ALC071

Scientific Name Authorship **Lamouroux, 1812**

Identified by Salgado, Enrique

Taxonomy

Order Alcyonacea

Family Unknown

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1811_IMG_20181115T170258Z_ROVHD



EX1811_IMG_20181115T170228Z_ROVHD



EX1811_IMG_20181115T170150Z_ROVHD

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

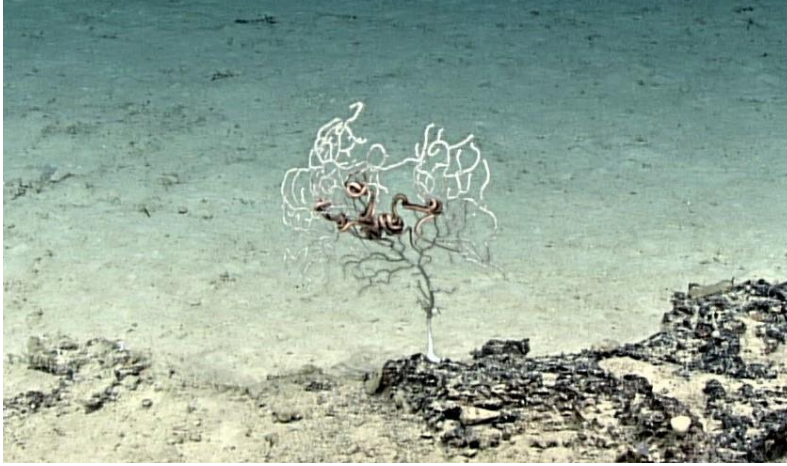
Taxonomy

Order Alcyonacea

Family Unknown

Genus *Unknown*

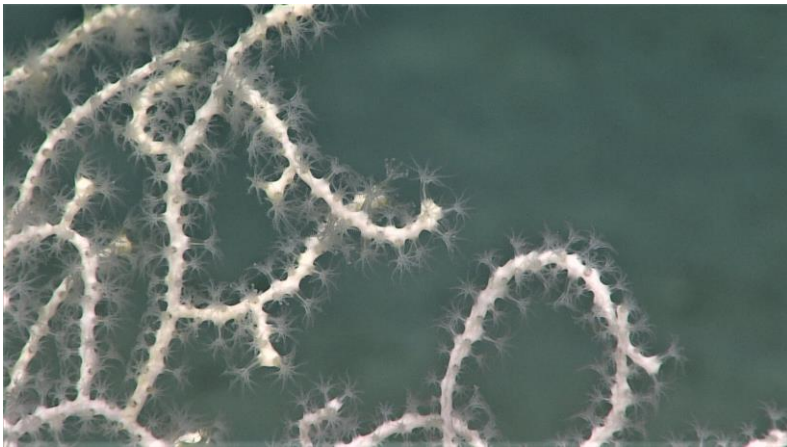
ID Verification Status **unconfirmed**



EX1811_IMG_20181101T161844Z_ROVHD



EX1811_IMG_20181101T161952Z_ROVHD



EX1811_IMG_20181101T162223Z_ROVHD

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

Taxonomy

Order Alcyonacea

Family Unknown

Genus *Unknown*

ID Verification Status **unconfirmed**



EX1806_IMG_20180624T182129Z_ROVHD.jpg



EX1806_IMG_20180624T182008Z_ROVHD.jpg

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

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_20171203T174455Z_ROVHD.jpg



EX1711_IMG_20171203T174551Z_ROVHD.jpg



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

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

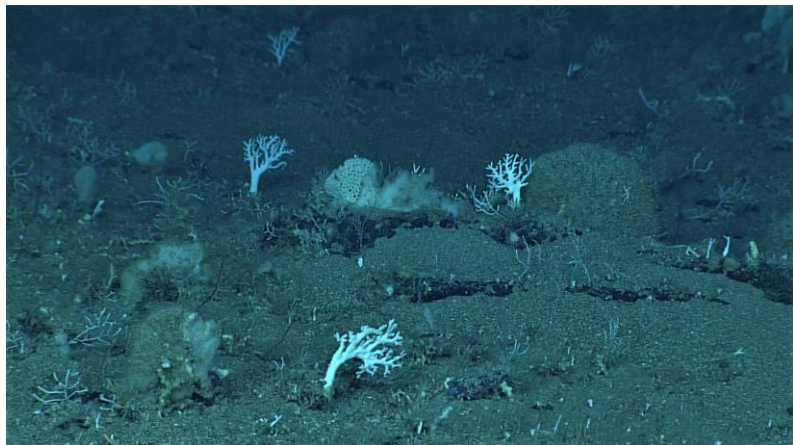
Sample Information

Field Sample Number EX1903L2_D07_03B

USNM# 1580813

DSCRTP Catalog Number Not available

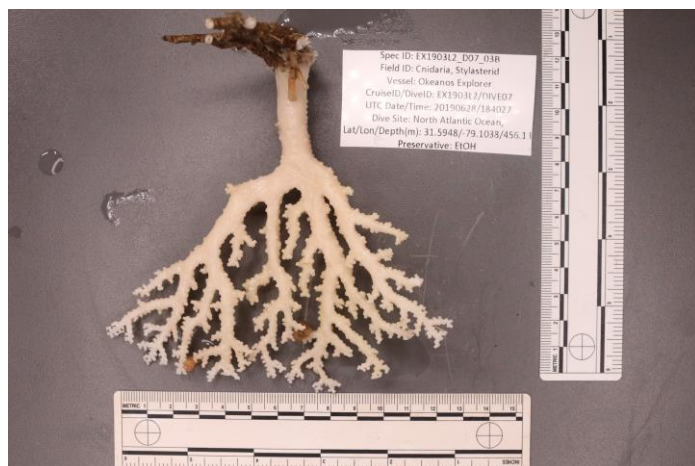
Description White, planar branching, small laterally compressed polyps



EX1903L2_IMG_20190628T183221Z_ROVHD



EX1903L2_IMG_20190628T183318Z_ROVHD



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

Taxonomy

Order Anthoathecata

Family Stylasteridae

Genus *Stylaster*

ID Verification Status confirmed by taxonomic analysis



EX1811_IMG_20181115T162318Z_ROVHD

Metadata

SurveyID EX1811

EventID Dive15

Region US Caribbean

Locality Pichincho Wall East

Latitude 18.37130

Longitude -67.75510

Depth (m) 274



EX1811_IMG_20181115T162536Z_ROVHDcrop

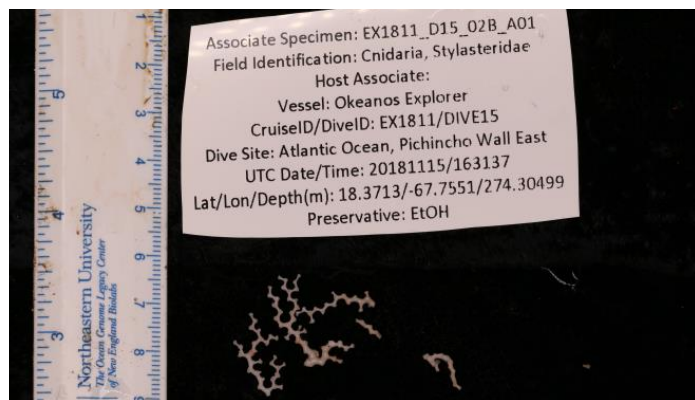
Sample Information

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_SPEC2BIO_A01_L01

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name *Crypthelia insolita*

STY005

Scientific Name Authorship Cairns, 1986

Identified by Cairns, Stephen

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

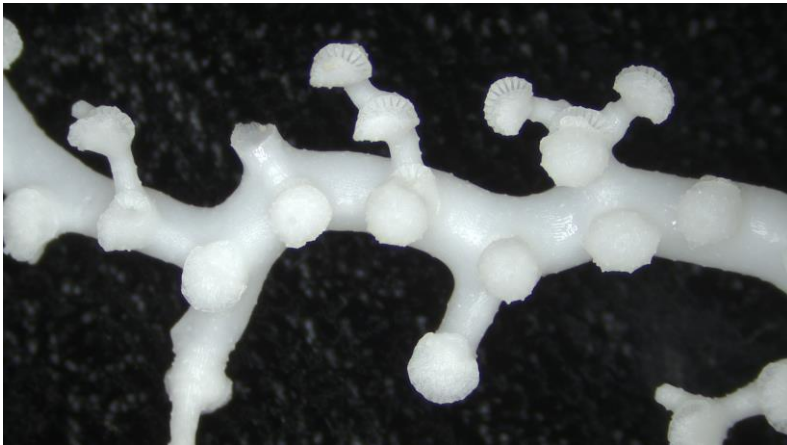
Description White, planar branching, small laterally compressed polyps



EX1811_IMG_20181101T154940Z_ROVHD

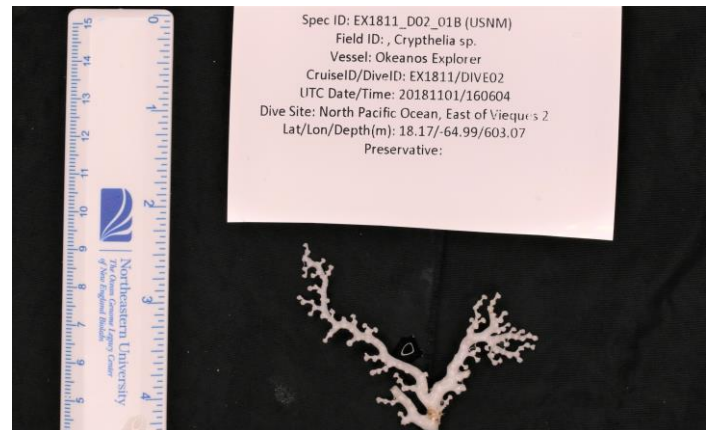


EX1811_IMG_20181101T155432Z_ROVHD



EX1811_IMG_20181101T160604Z_MICRO_D2_DIVE02_SPEC01BIO_M0

1



EX1811_IMG_20181101T160604Z_SMPSTL_D2_DIVE02_SPEC01BIO_L01

Order Anthoathecata (lace corals, class Hydrozoa)

Scientific Name *Distichopora* sp.

STY002

Scientific Name Authorship Lamarck, 1816

Identified by Salgado, Enrique

Taxonomy

Order Anthoathecata

Family Stylasteridae

Genus *Distichopora*

ID Verification Status unconfirmed



EX1811_IMG_20181116T132939Z_ROVHD

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



EX1811_IMG_20181116T132939Z_ROVHD_crop

Specimen not collected

Order Antipatharia (black corals)

Scientific Name *Stichopathes* sp.

ANT004

Scientific Name Authorship Brook, 1889

Identified by Salgado, Enrique

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

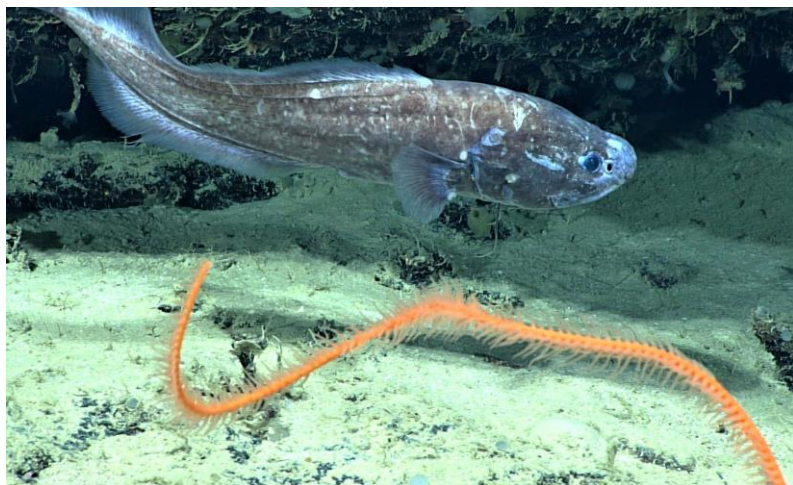
Sample Information

Field Sample Number Not collected

USNM# Not available

DSCRTP Catalog Number 967993

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



EX1806_IMG_20180617T160633Z_ROVHD.jpg



EX1806_IMG_20180617T154952Z_ROVHD.jpg

Specimen not collected

Order Antipatharia (black corals)

Scientific Name *Stichopathes* sp.

ANT003

Scientific Name Authorship Brook, 1889

Identified by Salgado, Enrique

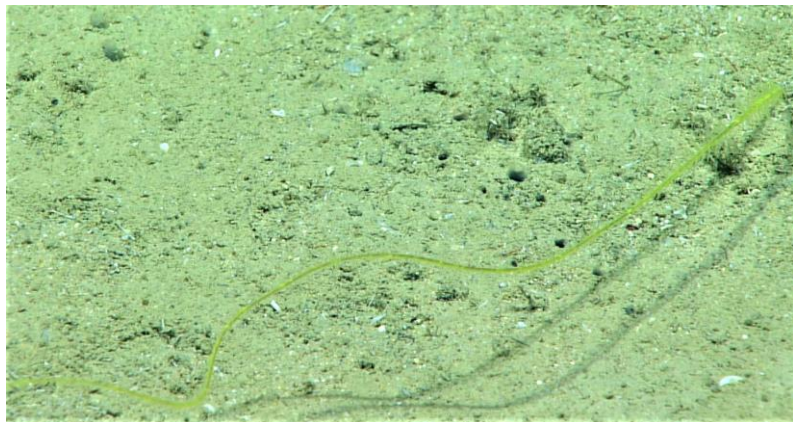
Taxonomy

Order Antipatharia

Family Antipathidae

Genus *Stichopathes*

ID Verification Status unconfirmed



EX1806_IMG_20180617T133655Z_ROVHD.jpg



EX1806_IMG_20180617T133751Z_ROVHD.jpg

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

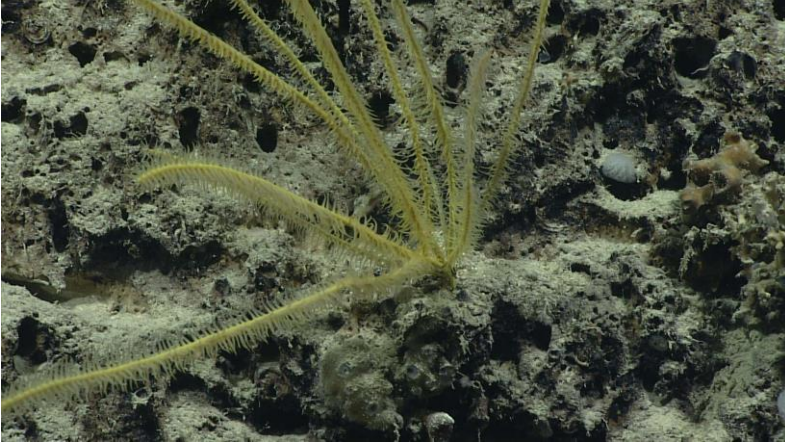
Taxonomy

Order Antipatharia

Family Antipathidae

Genus *Allopathes*

ID Verification Status confirmed by taxonomic analysis



EX1711_IMG_20171130T194932Z_ROVHDSPEC03BIO.jpg



EX1711_IMG_20171130T195402Z_ROVHDSPEC03BIO.jpg

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

Taxonomy

Order Antipatharia

Family Antipathidae

Genus *Aphanipathes*

ID Verification Status confirmed by taxonomic analysis



EX1803_IMG_20180429T180430Z_ROVHD



EX1803_IMG_20180429T175940Z_ROVHD

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

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_20181117T135234Z_ROVHD



EX1811_IMG_20181117T135320Z_ROVHD



EX1811_IMG_20181117T135413Z_ROVHD



EX1811_IMG_20181117T140037Z_SMPSTL_D2_DIVE17_SPEC1BIO_L01

Order Antipatharia (black corals)

Scientific Name *Trissopathes* sp.

ANT022

Scientific Name Authorship **Opreško, 2003**

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia

Family Cladopathidae

Genus *Trissopathes*

ID Verification Status **unconfirmed**



EX1907_IMG_20191119T144013Z_ROVHD

Metadata

SurveyID EX1907

EventID Dive12

Region Southeast US

Locality 'Berg Bits' SW of Dry Tortug

Latitude 23.98390

Longitude -83.38647

Depth (m) 970



EX1907_IMG_20191119T144102Z_ROVHD

Sample Information

Field Sample Number Not collected

USNM# Not available

DSCRTP Catalog Number Not available

Description Light-brown, bottlebrush branching, small spindle polyyps



EX1907_IMG_20191119T202631Z_ROVHD

Specimen not collected

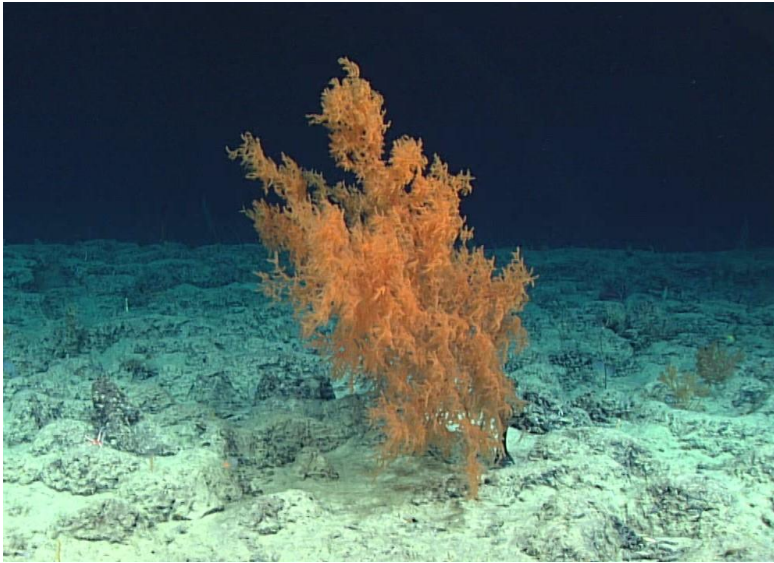
Order Antipatharia (black corals)

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

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Abyssopathes*

ID Verification Status confirmed by
taxonomic analysis

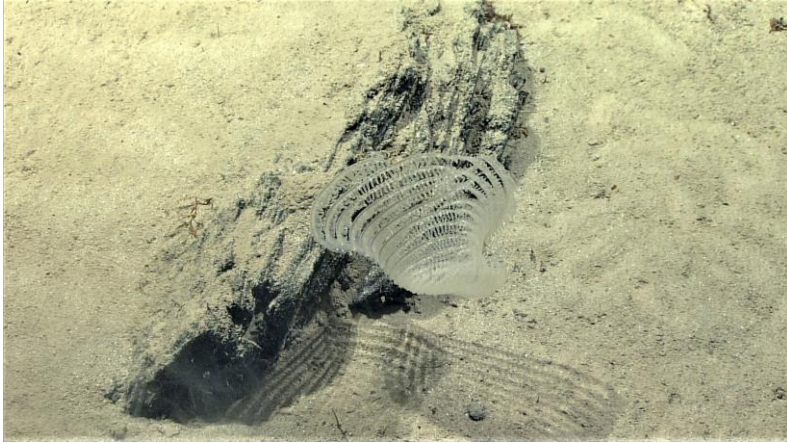
Metadata

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



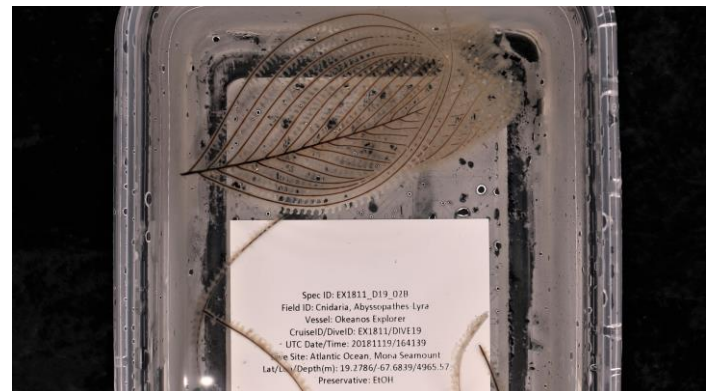
EX1811_IMG_20181119T163543Z_ROVHD



EX1811_IMG_20181119T163543Z_ROVHD



EX1811_IMG_20181119T163017Z_ROVHD



EX1811_IMG_20181119T164139Z_SMPSTL_D2_DIVE19_SPEC02BIO_L02

Order Antipatharia (black corals)

Scientific Name *Alternatipathes* sp.

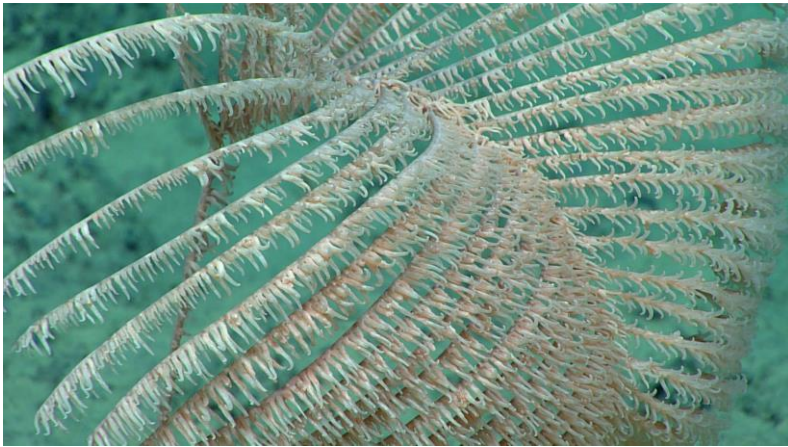
ANT010

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

Taxonomy

Order Antipatharia

Family Schizopathidae

Genus *Bathypathes*

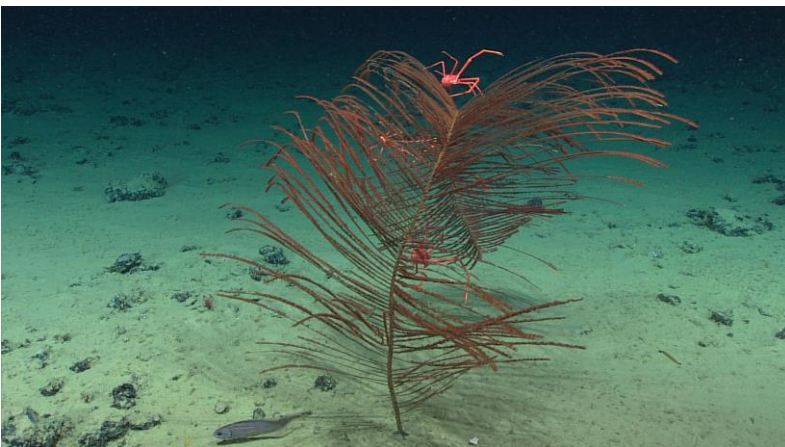
ID Verification Status unconfirmed



EX1806_IMG_20180622T133427Z_ROVHD.jpg



EX1806_IMG_20180622T133504Z_ROVHD.jpg



SE1061a_Bathypathes_890.jpg

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

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



EX1806_IMG_20180617T134543Z_ROVHD.jpg



EX1806_IMG_20180617T134636Z_ROVHD.jpg

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_SPEC02_BIO_L47.jpg

Order Antipatharia (black corals)

Scientific Name *Bathypathes* sp.

ANT012

Scientific Name Authorship Brook, 1889

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Bathypathes*

ID Verification Status unconfirmed



SE1060b_Bathypathes_966.jpg

Metadata

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

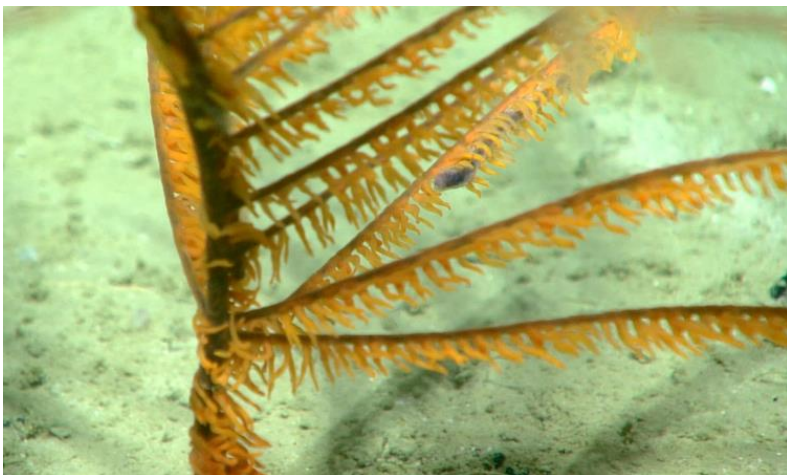


SE1054a_Bathypathes_966.jpg

Sample Information

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

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



SE1054b_Bathypathes_966.jpg

Specimen not collected

Order Antipatharia (black corals)

Scientific Name *Bathypathes* sp.

ANT011

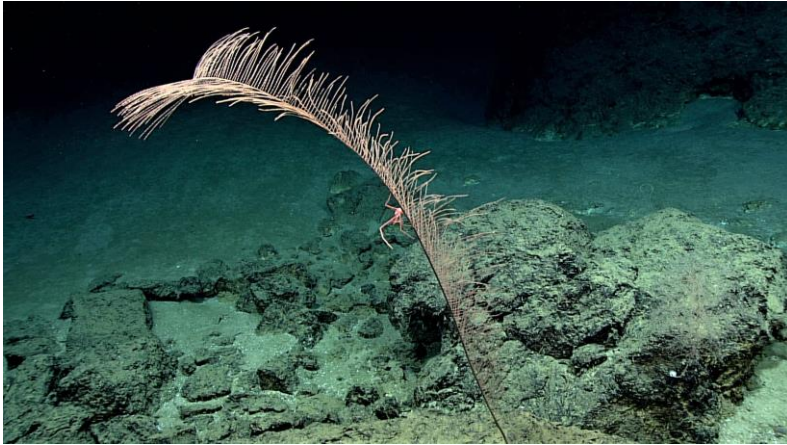
Scientific Name Authorship Brook, 1889

Identified by Wagner, Daniel

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Bathypathes*

ID Verification Status unconfirmed



EX1803_IMG_20180425T191343Z_ROVHD



EX1803_IMG_20180425T191551Z_ROVHD

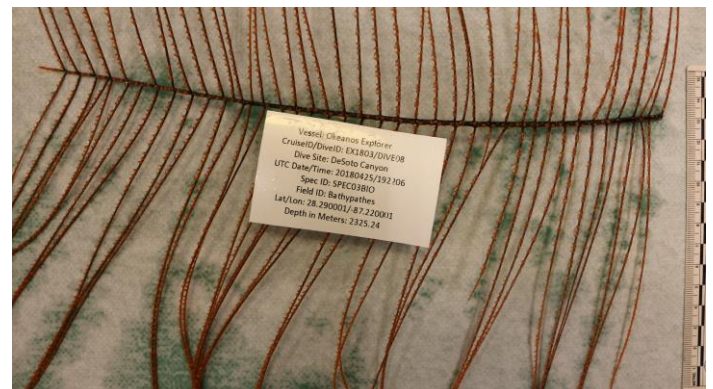
Metadata

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 branching, small unidirectional polyps



EX1803_IMG_20180425T192206Z_SMPSTL_D2_DIVE08_SPEC03BIO_L03

Order Antipatharia (black corals)

Scientific Name *Elatopathes* sp.

ANT006

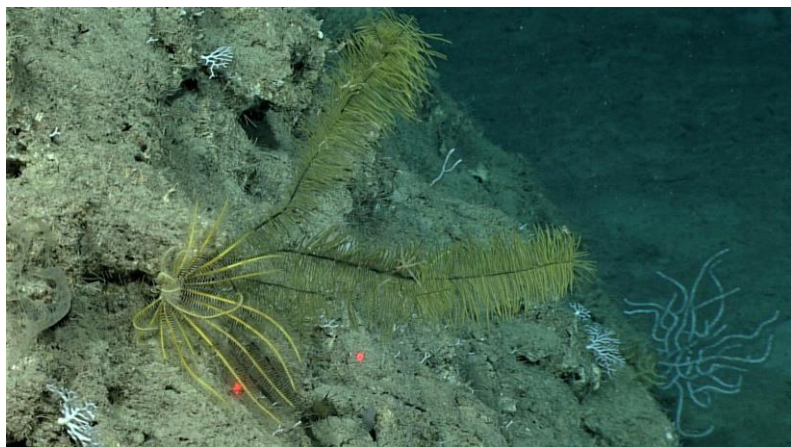
Scientific Name Authorship Opresko, 2004

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Elatopathes*

ID Verification Status unconfirmed



EX1811_IMG_20181107T212436Z_ROVHD



EX1811_IMG_20181107T212421Z_ROVHD

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*

ANT024

Scientific Name Authorship (Opresko, 2003)

Identified by Opresko, Dennis

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

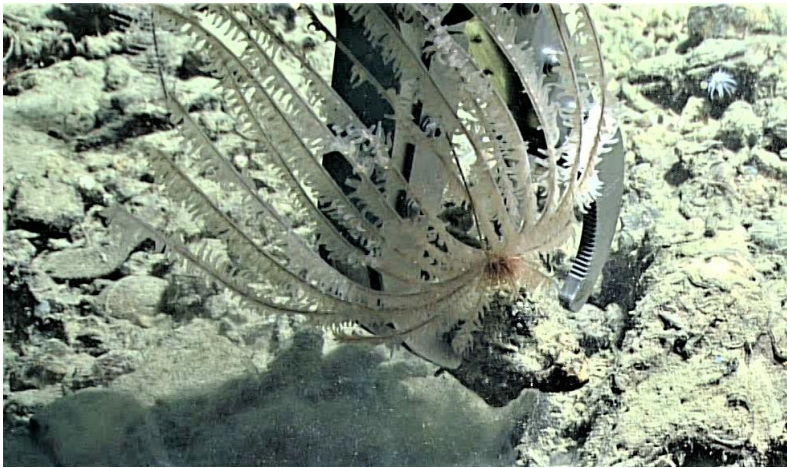
Sample Information

Field Sample Number D13_SPEC02_GEO_A01
USNM# 1483032
DSCRTP Catalog Number 950084

Description brown-translucent, branches from one point.



EX1711_IMG_20171216T175900Z_ROVHD



EX1711_IMG_20171216T181513Z_ROVHD



EX1711_IMG_20171216T181731Z_MICRO_D2_DIVE13_SPEC02GEO_A01_M01



EX1711_IMG_20171216T181731Z_SMPSTL_D2_DIVE13_SPEC02GEO_L02

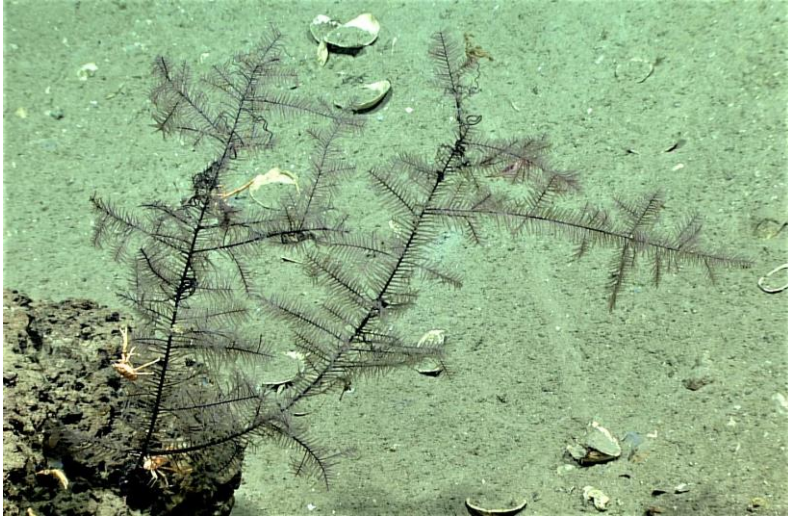
Order Antipatharia (black corals)

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

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Parantipathes*

ID Verification Status confirmed by taxonomic analysis

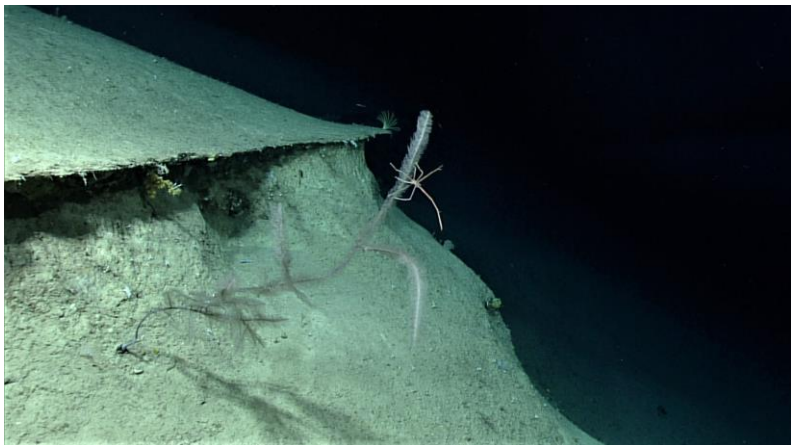
Metadata

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

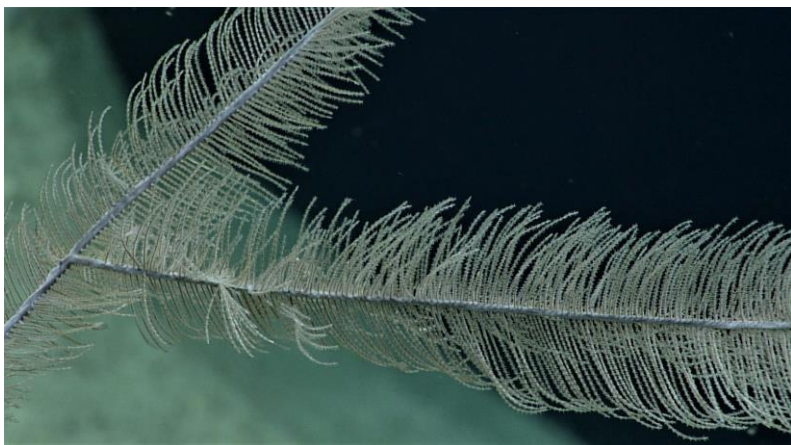
Sample Information

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_20181104T192345Z_ROVHD



EX1811_IMG_20181104T191603Z_ROVHD



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

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

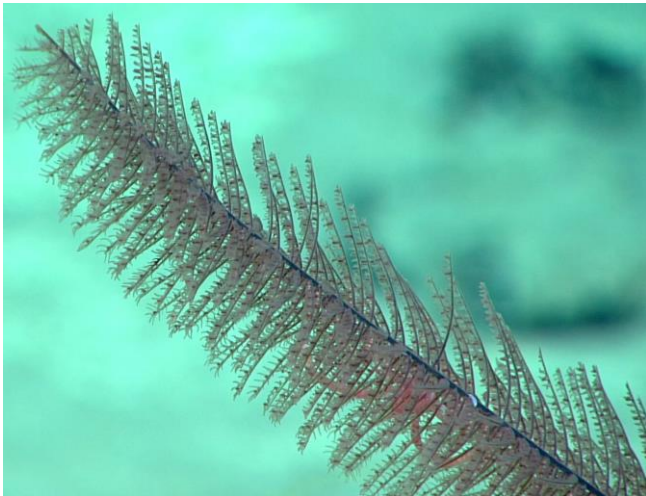
Description Brown-purple, simple pinnate branching, small dense polyps.



EX1806_IMG_20180617T141304Z_ROVHD.jpg



EX1806_IMG_20180617T141351Z_ROVHD.jpg



EX1806_IMG_20180617T141443Z_ROVHD.jpg

Specimen not collected

Order Antipatharia (black corals)

Scientific Name *Parantipathes* sp.

ANT020

Scientific Name Authorship Brook, 1889

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Parantipathes*

ID Verification Status unconfirmed

Metadata

SurveyID EX1903
EventID Dive09
Region Southeast US
Locality Blake Escarpment 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

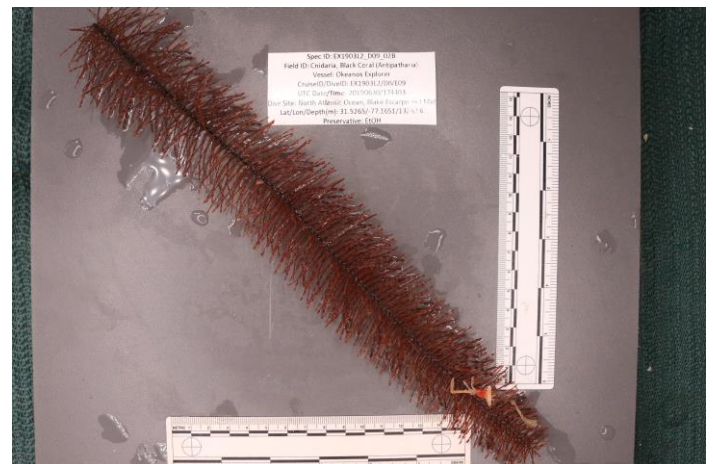
Description Pink-brown, dense pinnate branching, bottlebrush



EX1903L2_IMG_20190630T173715Z_ROVHD



EX1903L2_IMG_20190630T173742Z_ROVHD



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

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

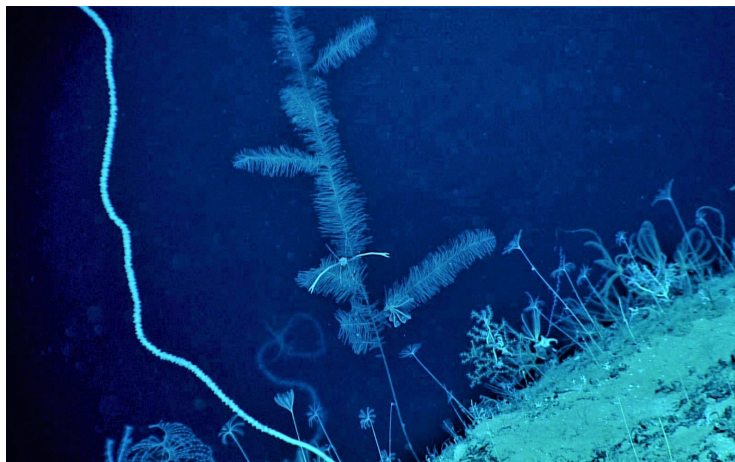
Sample Information

Field Sample Number Not collected

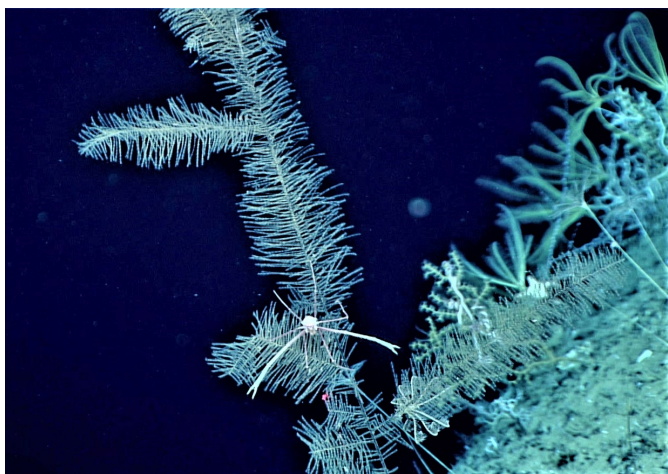
USNM# Not available

DSCRTP Catalog Number 949861

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



EX1711_IMG_20171205T202549Z_ROVHD.jpg



EX1711_IMG_20171205T202638Z_ROVHD.jpg

Specimen not collected

Order Antipatharia (black corals)

Scientific Name *Parantipathes* sp.

ANT023

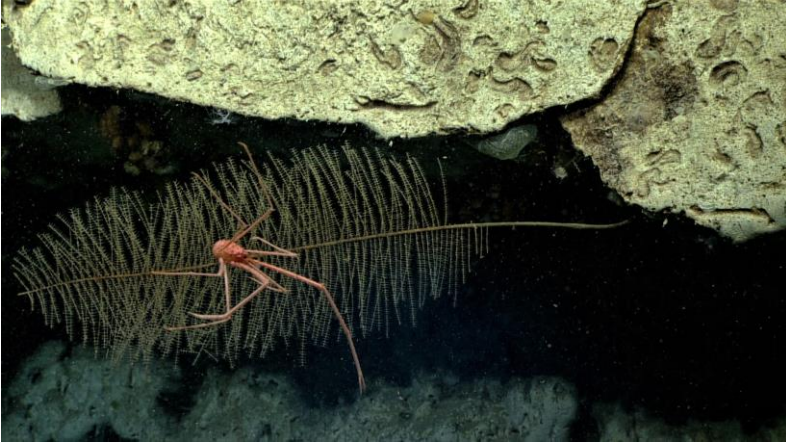
Scientific Name Authorship Brook, 1889

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Parantipathes*

ID Verification Status unconfirmed



EX1907_IMG_20191118T195246Z_ROVHD



EX1907_IMG_20191118T181229Z_ROVHD

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

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Stauropathes*

ID Verification Status confirmed by
taxonomic analysis

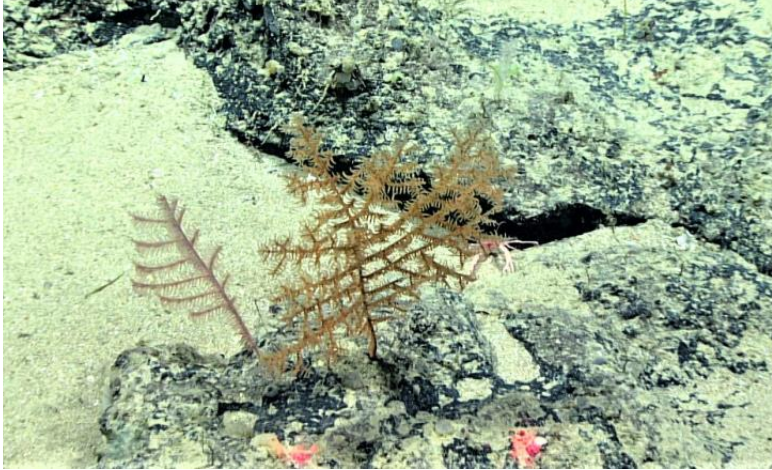
Metadata

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

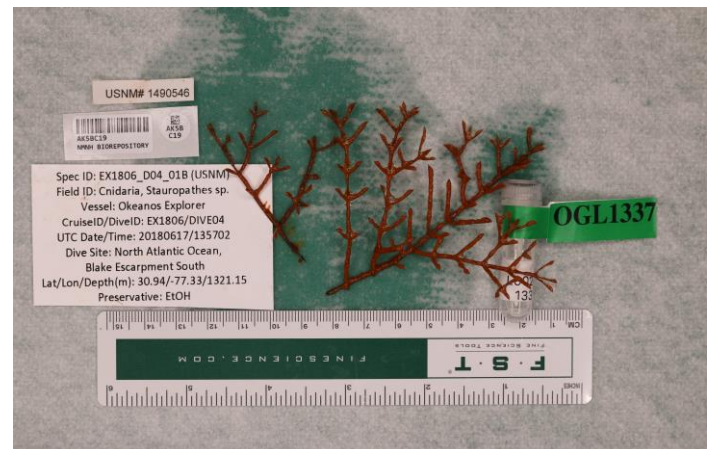
Description Orange-brown, pinnate branching with secondary perpendicular branches, dense polyps



EX1806_IMG_20180617T134708Z_ROVHD.jpg



EX1806_IMG_20180617T134740Z_ROVHD.jpg



EX1806_IMG_20180617T135702Z_SMPSTL_D2_DIVE04_SPEC01_BIO_L04.jpg

Order Antipatharia (black corals)

Scientific Name *Telopathes* sp.

ANT017

Scientific Name Authorship Brook, 1889

Identified by Opresko, Dennis

Taxonomy

Order Antipatharia
Family Schizopathidae
Genus *Telopathes*

ID Verification Status confirmed by morphological analysis

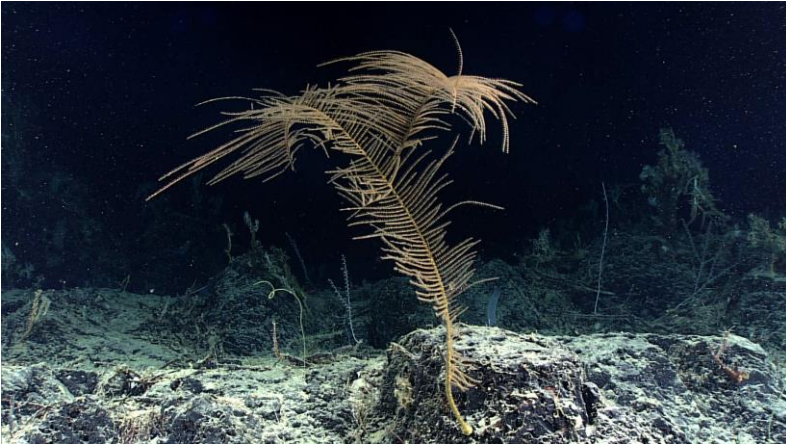
Metadata

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 branching with infrequent dichotomous branch



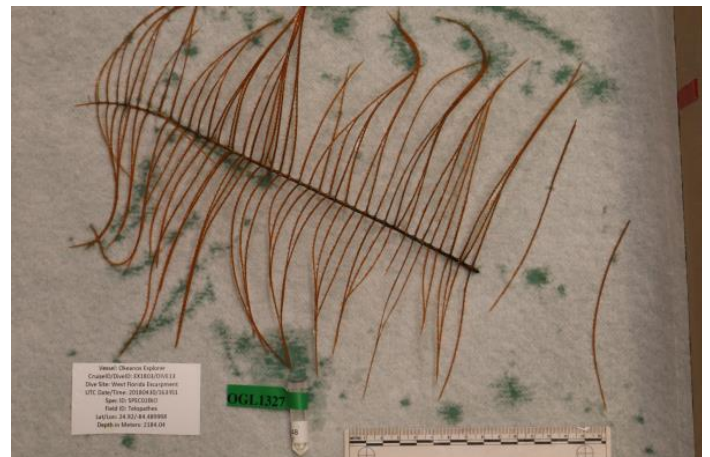
EX1803_IMG_20180430T162528Z_ROVHD



EX1803_IMG_20180430T162439Z_ROVHD



EX1803_IMG_20180430T162343Z_ROVHD



EX1803_IMG_20180430T163451Z_SMPSTL_D2_DIVE13_SPEC02_BIO_L01

Order Antipatharia (black corals)

Scientific Name *Stylopathes* sp.

ANT021

Scientific Name Authorship Opresko, 2006

Identified by Salgado, Enrique

Taxonomy

Order Antipatharia

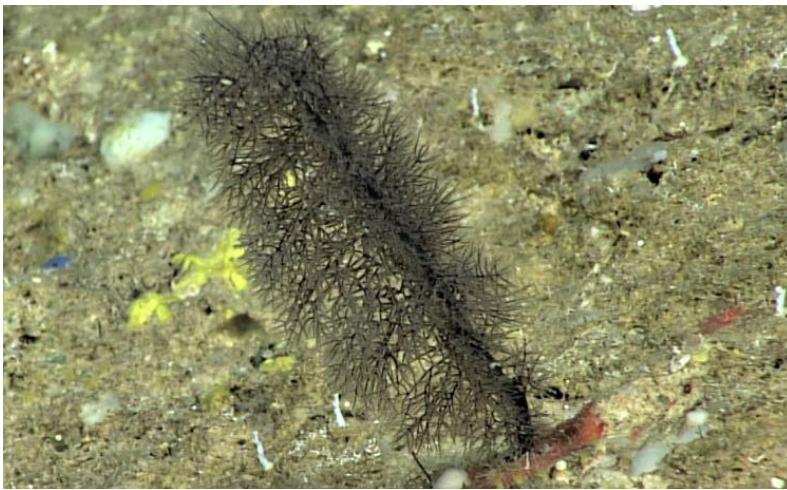
Family Stylopathidae

Genus *Stylopathes*

ID Verification Status unconfirmed



EX1811_IMG_20181115T153513Z_ROVHD



EX1811_IMG_20181115T153326Z_ROVHD

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

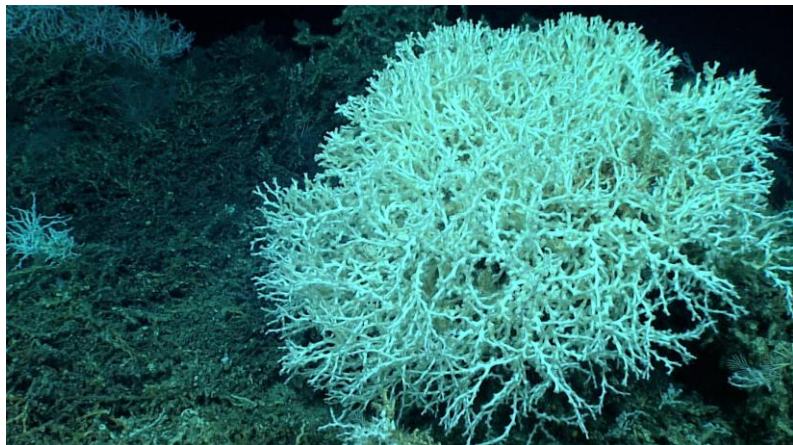
Taxonomy

Order Scleractinia

Family Caryophylliidae

Genus *Lophelia*

ID Verification Status unconfirmed



EX1806_IMG_20180621T210027Z_ROVHD.jpg



Lophelia_Dive07_InSitu.jpg

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_SPEC02_BIO_L24.jpg

Order Scleractinia (stony corals)

Scientific Name *Solenosmilia variabilis*

SCL002

Scientific Name Authorship **Duncan, 1873**

Identified by Cairns, Stephen

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



SE1024a_Solenosmillia_920.jpg



SE1024b_Solenosmillia_920.jpg

Specimen not collected

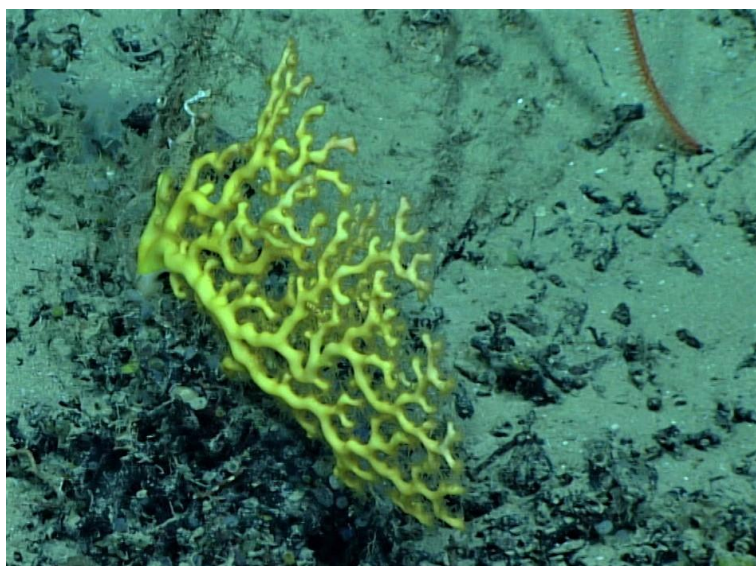
Order Scleractinia (stony corals)

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

Taxonomy

Order Scleractinia

Family Dendrophylliidae

Genus *Enallopsammia*

ID Verification Status unconfirmed



EX1907_IMG_20191104T195306Z_ROVHD



EX1907_IMG_20191104T195137Z_ROVHD

Metadata

SurveyID EX1907

EventID Dive04

Region Southeast US

Locality Stetson Mesa Mound Field

Latitude 30.39840

Longitude -79.27720

Depth (m) 817

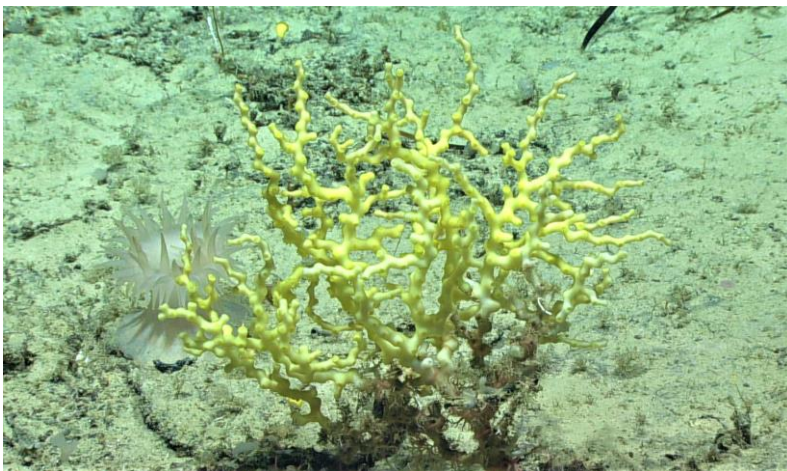
Sample Information

Field Sample Number EX1907_D04_06B

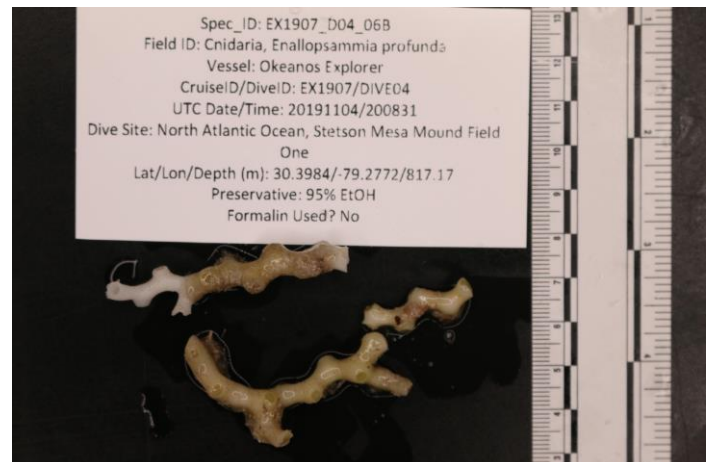
USNM# Not available

DSCRTP Catalog Number Not available

Description Yellow, meandering branches, polyps opposing with rounded calices



EX1907_IMG_20191104T141943Z_ROVHD



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

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

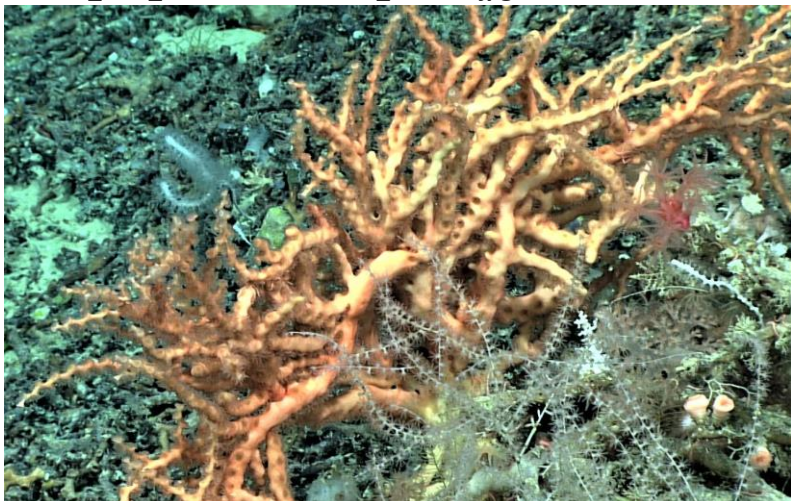
USNM# 1490592

DSCRTP Catalog Number 969302

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



EX1806_IMG_20180620T184223Z_ROVHD.jpg



EX1806_IMG_20180620T183941Z_ROVHD.jpg



EX1806_IMG_20180621T212230Z_SMPSTL_D2_DIVE07_SPEC01_BIO_L06.jpg

Order Scleractinia (stony corals)

Scientific Name *Madrepora oculata*

SCL006

Scientific Name Authorship (Linnaeus, 1758)

Identified by Cairns, Stephen

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

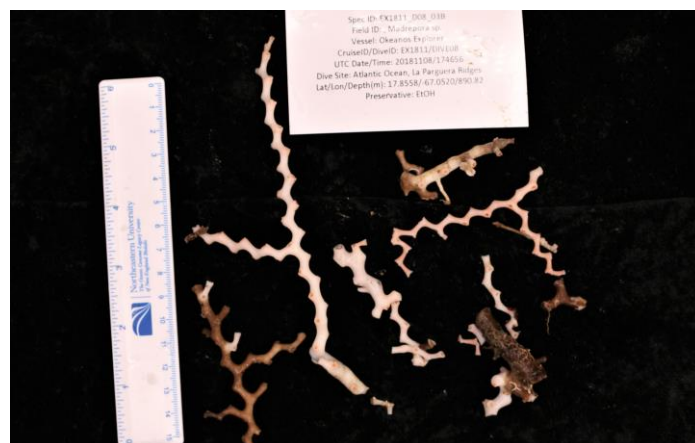
Description White, branching in zigzag pattern, opposing calices



EX1811_IMG_20181108T173742Z_ROVHD



EX1811_IMG_20181108T173626Z_ROVHD



EX1811_IMG_20181108T174656Z_SMPSTL_D2_DIVE08_SPEC3BIO_L14

Order Scleractinia (stony corals)

Scientific Name *Madrepora carolina*

SCL003

Scientific Name Authorship (Pourtalès, 1871)

Identified by Cairns, Stephen

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

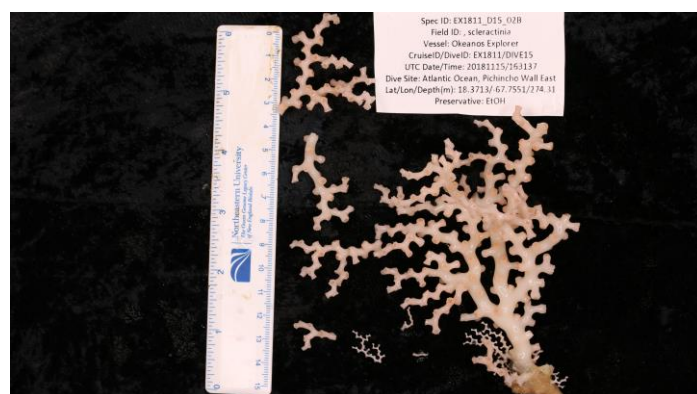
Description White, branching in compact zigzag pattern, opposing calices



EX1811_IMG_20181115T162536Z_ROVHD



EX1811_IMG_20181115T155525Z_ROVHD



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

Taxonomy

Order Scleractinia
Family Pocilloporidae
Genus *Madracis*

ID Verification Status confirmed by
taxonomic analysis

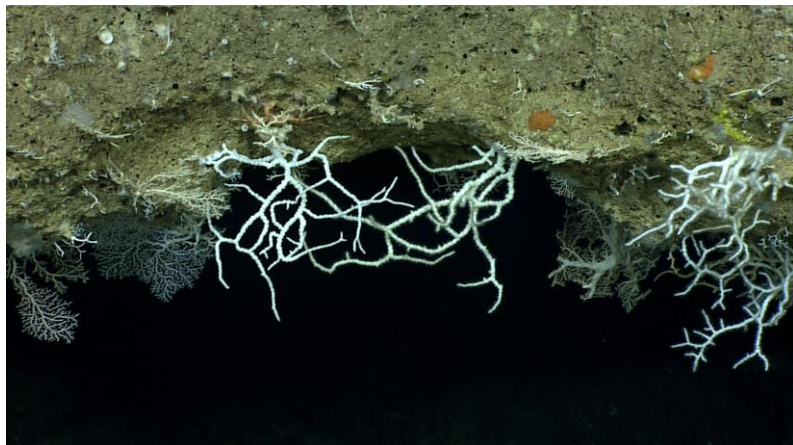
Metadata

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



EX1811_IMG_20181115T154945Z_ROVHD



EX1811_IMG_20181115T155044Z_ROVHD



EX1811_IMG_20181115T155013Z_ROVHD

Specimen not collected

References

- Ardron JA, Clark MR, Penney AJ, Hourigan TF, Rowden AA, Dunstan PK, Watling L, Shank TM, Tracey DM, Dunn MR, Parker SJ. A systematic approach towards the identification and protection of vulnerable marine ecosystems. *Marine Policy*. 2014 Nov 1; 49:146-54.
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