

An underwater photograph of a coral reef. The water is a deep blue-green color. In the foreground, there are large, rounded coral structures. In the background, a diver is visible, and many small fish are swimming around. The overall scene is vibrant and detailed.

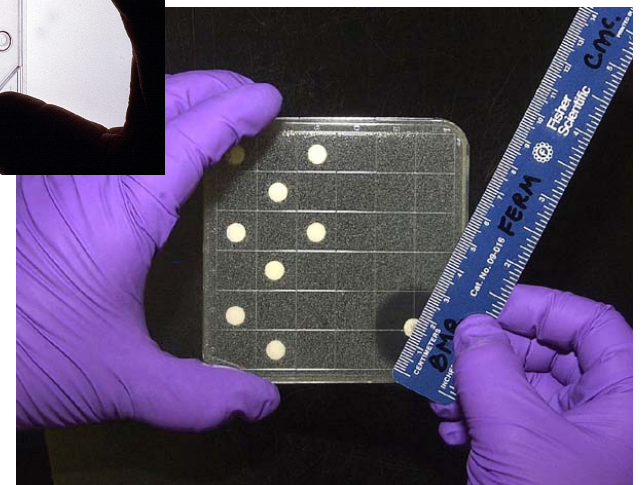
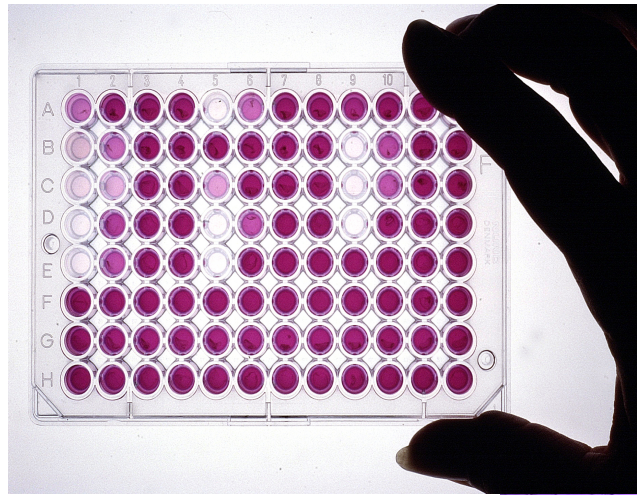
The HBOI-FAU Marine Biotechnology Reference Collection (HMBRC): a New Web-based Resource for Research

Shirley Pomponi,
Dennis Hanisak, John Reed, Amy Wright

Harbor Branch Oceanographic Institute
Florida Atlantic University

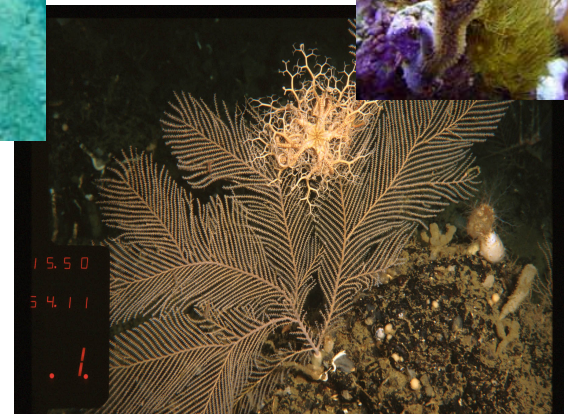
HMBRC: A Unique Collection

- Started as “project-based” collection
 - Reference vouchers for a marine natural products drug discovery program



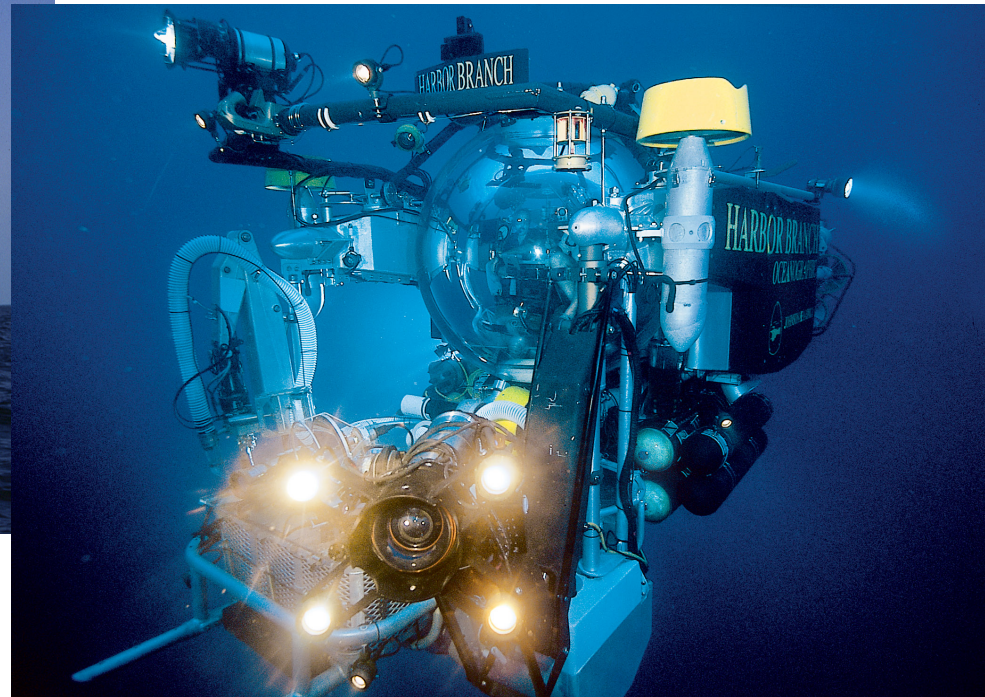
HMBRC: A Unique Collection

- > 30,000 specimens
 - Taxonomically and geographically diverse
 - > 13 phyla: algae & invertebrates



HMBRC: A Unique Collection

- > 30% collected using *Johnson-Sea-Link* submersibles



HMBRC: A Unique Collection

- Representatives of same species collected from different locations & depths over 30 years

HMBRC: A Unique Collection

- NSF/BIO/DBI CSBR grant to make data, images, & videos web-accessible
 - 59 expeditions
 - 1419 submersible dives (deep water) – most with videos of specimens
 - All videos annotated; clip editing in progress
 - > 20,000 images have been selected/edited
 - Data uploaded for 30 expeditions; continuing uploads as video clips are completed

HMBRC Website Technical Details

- Back end: PostgreSQL database
 - Hosted on Ubuntu virtual machine
 - All HMBRC data + links to image & video library
- Coded in R Shiny, HTML, CSS, & javascript
 - Served in private Docker containers deployed with ShinyProxy
- Data ingestion workflow
 - Computer scripts coded in R & Linux base pull data from Excel files, manipulate, format, and ingest into PostgreSQL
 - Scripts also import & format images/videos

Choose date range

1985-10-26 - 2020-05-21

Contains media



Country

USA

Depth Zone

Nothing selected

PHYLUM

Nothing selected

CLASS

Nothing selected

ORDER

Nothing selected

FAMILY

Nothing selected

TAXONOMY WORMS

Nothing selected

Clear selections

Taxonomy data table

Location data table

All data












Deck image gallery

In situ image gallery

Map

Search:

Show 10 entries

Sample #	Sample Code	Collection Date	Collection Method	Taxonomy	AphiaID	Preliminary ID	Phylum	Class	Order	Family	In situ images	Deck images	Videos
All	All	All	All	All	All	All	All	All	All	All			
13-XI-88-1-015	198811131015	1988-11-13	JSL II-1696	Filigrana implexa	130989	Filigrana implexa	Annelida	Polychaeta	Sabeliida	Serpulidae			
4-XI-88-8-001	198812048001	1988-12-04	WADE	Polychaeta	883	Red and yellowish polychaeta	Annelida	Polychaeta					
4-XI-88-7-001	198812047001	1988-12-04	WADE	Polychaeta	883	Polychaeta, reddish-transparent, very common	Annelida	Polychaeta					
4-XI-88-9-003	198812049003	1988-12-04	WADE	Merippe mercenaria	422070	Stone crab	Arthropoda	Malacostraca	Decapoda	Merippidae			
4-XI-88-9-006	198812049006	1988-12-04	WADE	Decapoda	1130	Large claw crab	Arthropoda	Malacostraca	Decapoda				
13-XI-88-1-018	198811131018	1988-11-13	JSL II-1696	Schizoporellidae	110772	Schizoporellidae	Bryozoa	Gymnolemata	Chelostomatida	Schizoporellidae			
9-VII-99-1-005	199908091005	1999-08-09	JSL II-3158	Bryozoa	146142	Bryozoa	Bryozoa						
4-XI-88-9-106	198812049106	1988-12-04	WADE	Ulva sp.	144296	Enteromorpha sp.	Chlorophyta	Ulvophyceae	Ulvales	Ulveaceae			
13-XI-88-1-001	198811131001	1988-11-13	JSL II-1696	Didemniidae	103439	Didemniidae	Chordata	Ascidacea	Aplousobranchia	Didemniidae			
15-XI-88-1-001	198811151001	1988-11-15	JSL II-1699	Didemniidae	103439	Didemniidae	Chordata	Ascidacea	Aplousobranchia	Didemniidae			

Showing 1 to 10 of 498 entries

Previous 1 2 3 4 5 ... 50 Next

Choose data range

1985-10-25 - 2000-05-21

Please choose data range prior to making other selections.

Country

USA

Depth Zone

Nothing selected

PHYLUM

Nothing selected

CLASS

Nothing selected

ORDER

Nothing selected

FAMILY

Nothing selected

TAXONOMY WORMS

Nothing selected

Clear selections

Taxonomy data table

Location data table

All data

Deck image gallery

In situ image gallery

Map

Search:

Show 10 entries

Sample #	Sample Code	Collection Date	Collection Method	Depth (m)	Depth Zone	Taxonomy	Country	Location	Habitat	Latitude	Longitude	In situ images	Deck images	Videos
All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
11-X0-88-1-005	198811111005	1988-11-11	JSL II-1894	200	Rariphotic	Plumarella sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.735333	-78.096667			
11-X0-88-2-003	198811112003	1988-11-11	JSL II-1895	206	Rariphotic	Plumarella sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.736000	-78.099333			
11-X0-88-1-013	198811111013	1988-11-11	JSL II-1894	196	Rariphotic	Asteroidea	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.735333	-78.096667			
11-X0-88-1-006	198811111006	1988-11-11	JSL II-1894	200	Rariphotic	Astracma sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.735333	-78.096667			
11-X0-88-2-013	198811112013	1988-11-11	JSL II-1895	206	Rariphotic	Astracma sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.736000	-78.099333			
11-X0-88-1-007	198811111007	1988-11-11	JSL II-1894	200	Rariphotic	Peretrochus sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.735333	-78.096667			
11-X0-88-2-014	198811112014	1988-11-11	JSL II-1895	206	Rariphotic	Peretrochus sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.736000	-78.099333			
11-X0-88-1-001	198811111001	1988-11-11	JSL II-1894	201	Rariphotic	Geodia sp.	USA	Charleston, South Carolina	1-3' phos. boulders, on 30° rock slope, N-S ridges	32.735333	-78.096667			

Choose date range
1980-10-28 2000-05-21

Contains media

Country
Nothing selected

Depth Zone
Nothing selected

PHYLUM
Porifera

CLASS
Demospongiae

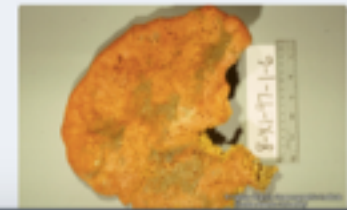
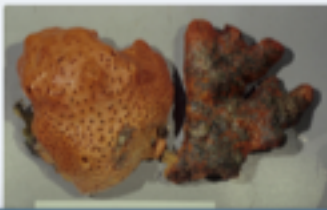
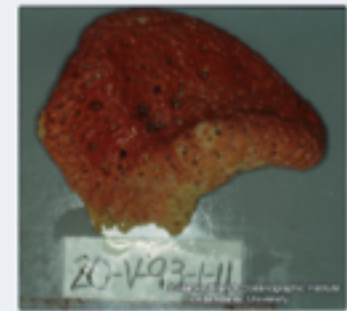
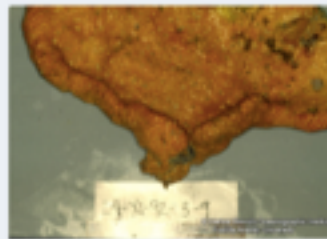
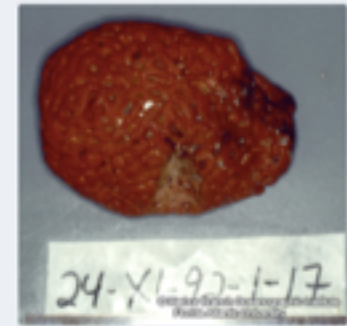
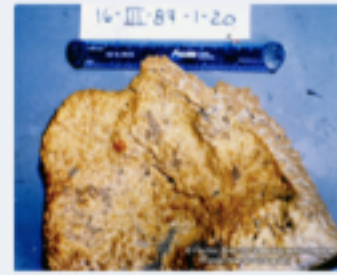
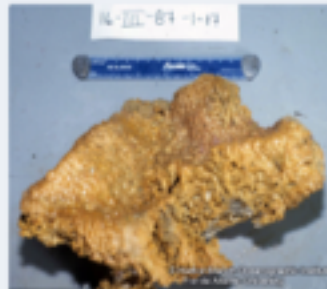
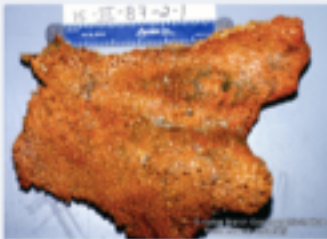
ORDER
Agelastida

FAMILY
Agelastidae

TAXONOMY WORMS
Nothing selected

Clear selections

Taxonomy data table Location data table All data Deck image gallery In situ image gallery Map





Choose data range
1985-10-28 - 2000-05-21

- Taxonomy data table
- Location data table
- All data
- Deck image gallery
- In situ image gallery
- Map

Contains media

Country
Nothing selected

Depth Zone
Nothing selected

PHYLUM
Porifera

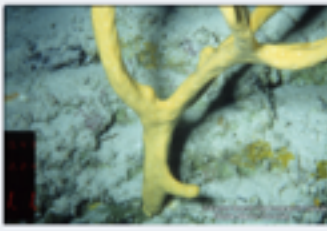
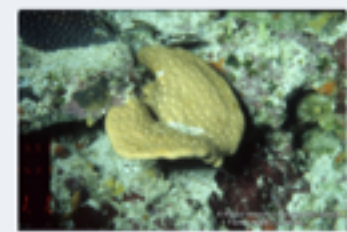
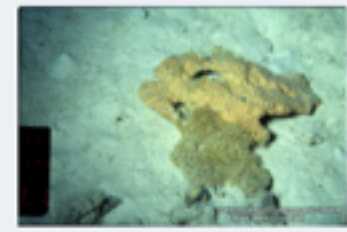
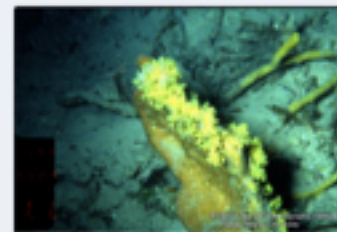
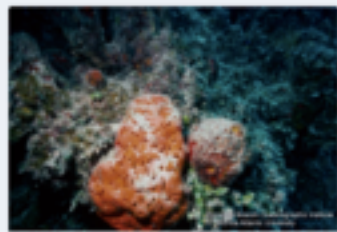
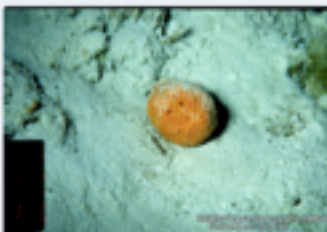
CLASS
Demospongiae

ORDER
Agelastida

FAMILY
Agelasidae

TAXONOMY WORMS
Nothing selected

Clear selections



Choose date range

1985-10-26 to 2000-05-21

Contains media

Lat(DD) Long(DD)

Zoom to lat long

Country

USA

Depth Zone

Nothing selected

PHYLUM

Nothing selected

CLASS

Nothing selected

ORDER

Nothing selected

FAMILY

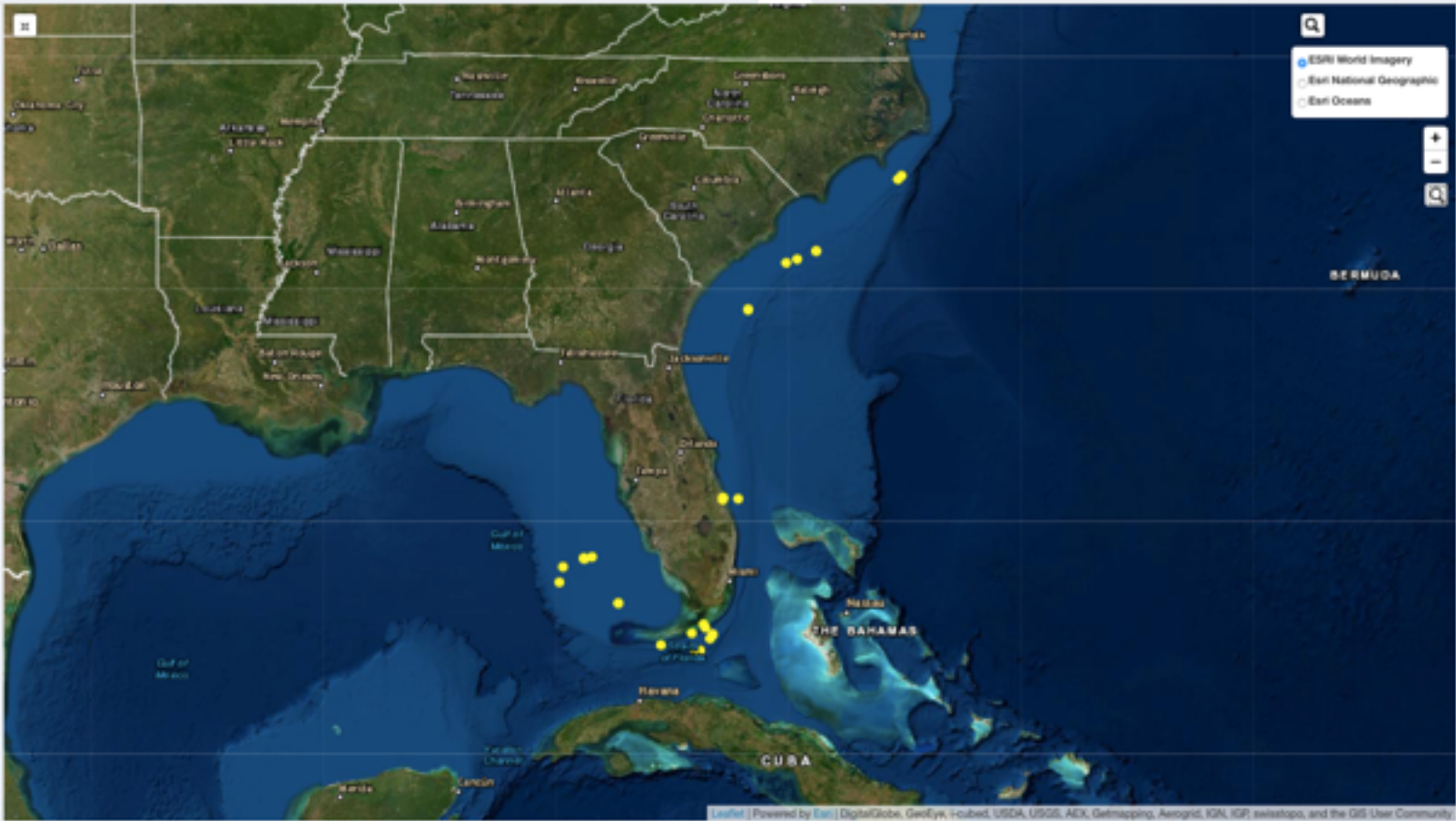
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TAXONOMY WORMS

Nothing selected

Clear selections

Taxonomy data table Location data table All data Deck image gallery In situ image gallery Map





Choose date range

1995-10-26 - 2000-05-21

Contains media



Country

Nothing selected

Depth Zone

Nothing selected

PHYLUM

Porifera

CLASS

Demospongiae

ORDER

Tetractinelida

FAMILY

Theonellidae

TAXONOMY WORMS

Nothing selected

 Clear selections

Taxonomy data table Location data table All data Deck image gallery In situ image gallery Map

Show 10 entries

Search:

Sample #	Sample Code	Collection Date	Collection Method	Taxonomy	AphiaID	Preliminary ID	Phylum	Class	Order	Family	In situ images	Deck images	Videos
All	All	All	All	All	All	All	All	All	All	All	All	All	All
21-III-87-3-014	198703213014	1987-03-21	SCUBA	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
1-XI-92-2-001	199212012001	1992-12-01	SCUBA	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
13-XI-92-2-012	199212132012	1992-12-13	SCUBA	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
9-VI-96-4-010	199606094010	1996-06-09	JSL 3-2733	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
9-VI-96-5-007	199606095007	1996-06-09	JSL 3-2734	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
10-VI-96-1-002	199606101002	1996-06-10	JSL 3-2735	Discodermia dissoluta	171215	Discodermia dissoluta	Porifera	Demospongiae	Tetractinelida	Theonellidae			
8-V-00-2-002	200005082002	2000-05-08	SCUBA	Discodermia dissoluta	NA		Porifera	Demospongiae	Tetractinelida	Theonellidae			
16-V-00-2-001	200005162001	2000-05-16	SCUBA	Discodermia dissoluta	NA		Porifera	Demospongiae	Tetractinelida	Theonellidae			
18-V-00-2-001	200005182001	2000-05-18	SCUBA	Discodermia dissoluta	NA		Porifera	Demospongiae	Tetractinelida	Theonellidae			
20-V-00-4-001	200005204001	2000-05-20	SCUBA	Discodermia dissoluta	NA		Porifera	Demospongiae	Tetractinelida	Theonellidae			



Choose date range

1980-10-26 - 2000-05-21

Contains media

Lat(DD) Long(DD)

Input fields for latitude and longitude coordinates.

Zoom to lat long

Country

Nothing selected

Depth Zone

Nothing selected

PHYLUM

Porifera

CLASS

Demospongiae

ORDER

Tetractnelida

FAMILY

Theonellidae

TAXONOMY WORMS

Nothing selected

Clear selections

- Taxonomy data table
- Location data table
- All data
- Deck image gallery
- Insitu image gallery
- Map



Choose date range

1993-10-26 - 2020-05-21

Contains media

Country

Nothing selected

Depth Zone

Nothing selected

PHYLUM

Porifera

CLASS

Demospongiae

ORDER

Tetractnelida

FAMILY

Theonellidae

TAXONOMY WORMS

Nothing selected

Clear selections

Taxonomy data table

Location data table

All data
















Deck image gallery

Insitu image gallery

Map

Show 10 entries

Search:

Sample #	Sample Code	Collection Date	Collection Method	Depth (m)	Depth Zone	Taxonomy	Country	Location	Habitat	Latitude	Longitude	Insitu Images	Deck Images	Videos
A	AI	AI	AI	157.86	A	AI	A	AI	A	A	AI	A	A	A
4-VI-93-3-005	199306043005	1993-06-04	JSL I-3512	157.86	736.00	Discodermia polydiscus	Bahamas	Bahamas,acklins Island,N. Coast,-15mi. N. of No. Pt.	60' soft sand slope	22.754367	-73.861600			
12-III-87-1-003	198703121003	1987-03-12	JSL I-1955	210	Rariphotic	Discodermia sp.	Bahamas	North West Channel, Toto, Bahamas	sand, rock slope 45-60'a	25.449833	-78.076333			
18-III-87-1-001	198703181001	1987-03-18	JSL I-1967	162	Rariphotic	Discodermia sp.	Bahamas	Se Grand Bahama Island, Sweetings Cay	rock slope	26.532500	-77.877333			
18-III-87-1-004	198703181004	1987-03-18	JSL I-1967	162	Rariphotic	Discodermia sp.	Bahamas	Se Grand Bahama Island, Sweetings Cay	rock slope	26.532500	-77.877333			
24-XI-92-1-011	199211241011	1992-11-24	JSL I-3373	200	Rariphotic	Discodermia sp.	Bahamas	Bahamas,club Cay,se. of Mamma Rhoda Rock		25.399167	-77.919917			
26-XI-92-3-008	199211263008	1992-11-26	JSL I-3378	187	Rariphotic	Discodermia sp.	Bahamas	Bahamas,androis Island,2.75nmi Se. of Goulding Cay		24.188150	-77.540733			
27-XI-92-1-012	199211271012	1992-11-27	JSL I-3379	169	Rariphotic	Discodermia sp.	Bahamas	Bahamas,androis Island,2nmi S. of High Point Cay		23.873867	-77.445350			
29-XI-92-1-005	199211291005	1992-11-29	JSL I-3383	208	Rariphotic	Discodermia sp.	Bahamas	Bahamas,new Providence Island,0.75nmi Se. of Goulding Cay		25.009050	-77.564567			
29-XI-92-1-007	199211291007	1992-11-29	JSL I-3383	169	Rariphotic	Discodermia sp.	Bahamas	Bahamas,new Providence Island,0.75nmi Se. of Goulding Cay		25.009050	-77.564567			

Choose date range

1995-10-25 - 2020-05-21

Contains media

Country

Nothing selected

Depth Zone

Deep aphotic

PHYLUM

Porifera

CLASS

Demospongiae

ORDER

Tetractinellida

FAMILY

Theonellidae

TAXONOMY WORMS

Theonellidae, Theonella 1

Clear selections

Taxonomy data table

Location data table

All data

Deck image gallery

In situ image gallery

Map

Show 10 entries

Search:

Sample #	Sample Code	Collection Date	Collection Method	Depth (m)	Depth Zone	Taxonomy	Country	Location	Habitat	Latitude	Longitude	In situ Images	Deck Images	Videos
	All	All	All			All		All	All		All			
4-XI-92-3-003	199212043003	1992-12-04	JSL I-3394	409	Deep aphotic	Theonella sp.	Bahamas	Bahamas,eleuthera Island;wemyss Bight, 1.5nm Off Shore		24.737317	-76.263150			
2-VI-93-3-007	199306023007	1993-06-02	JSL I-3508	614	Deep aphotic	Theonella sp.	Bahamas	Bahamas,mayaguana Island;n. Coast,-.75nm. Ne. of BooBy Rocks	50' rock slope, boulders, slabs	22.479100	-73.092667			
5-VI-93-3-001	199306053001	1993-06-05	JSL I-3514	557	Deep aphotic	Theonella sp.	Bahamas	Bahamas,samana Cays. Coast,-.8nm. S. of Eastern Pt. Of Southern Cove	70-80' rock slope, smooth, low relief	23.051583	-73.757767			
5-XI-97-2-001	199711052001	1997-11-05	JSL II-3011	336	Deep aphotic	Theonellidae	Honduras	Honduras, Roatan; N. Coast, 0.8nm North of West Point	20' mud-sand slope, large boulders; 60' at 600 ft., base of wall 450ft	16.276533	-86.610450			
1-IX-93-1-002	199309011002	1993-09-01	JSL I-3602	454	Deep aphotic	Theonellidae	Jamaica	Jamaica,n. Coast;henry Holmes Bank,sw. Slope,-13nm Offshore	60-70' rock slope, smooth, thin sediment	18.096650	-76.053533			
20-VII-99-2-003	199908202003	1999-08-20	JSL II-3177	470	Deep aphotic	Theonellidae	USA	Florida Keys; Marathon Sinkhole, Poutales Terrace, -29 Nm S. of Vaca Key	sink hole, 60-90' slope on walls, pavement on top, sediment on bottom- 1702'	24.255318	-80.903817			
21-VII-99-1-001	199908211001	1999-08-21	JSL II-3178	472	Deep aphotic	Theonellidae	USA	Florida Keys; Marathon Sinkhole, Poutales Terrace, -29 Nm S. of Vaca Key	wall, 35-40' hard pavement	24.255318	-80.903817			
7-VI-96-1-002	199606071002	1996-06-07	JSL II-2727	364	Deep aphotic	Theonella sp.	USA, Puerto Rico	Puerto Rico; Sw Coast Off Marker R-2; Approx. 4 Nm South	sand slope with small mounds and burrows	17.875183	-67.259400			

Choose date range

 -

Contains media

Lat(DD)

Long(DD)

 Zoom to lat long

Country

 Nothing selected

Depth Zone

 Deep aphotic

PHYLUM

 Porifera

CLASS

 Demospongiae

ORDER

 Tetractnelida

FAMILY

 Theonellidae

TAXONOMY WORMS

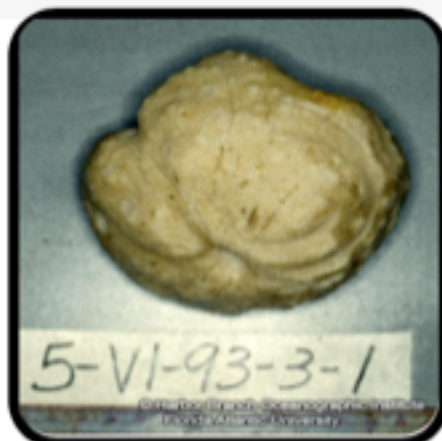
 Theonellidae, Theonella

 Clear selections

Show 10 entries

Bahamas, samana Crabs, Coast, ~8mi. S. of Eastern Pt. Of Southern Cove

Sample #	Sample Code	Collection Method	Collection Date	Depth (m)	Taxonomy	Phylum	Class	Order	Family	In situ images	Deck images	Videos
5-VI-93-3-001	199306053001	JSL I-3514	1993-06-05	557	Theonella sp.	Porifera	Demospongiae	Tetractnelida	Theonellidae			



Showing 1 to 1 of 1 entries

 Previous 1 Next

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 Esri Oceans

 TRACKS AND
 DATA FOR
 THE CARIBBEAN
 ISLANDS

 Custom Tools



5-VI-93-3-1

5.0 2
3.0 5
!





Choose date range

1986-10-28 - 2020-05-21

Contains media

Country

Ecuador

Depth Zone

Nothing selected

PHYLUM

Nothing selected

CLASS

Nothing selected

ORDER

Nothing selected

FAMILY

Nothing selected

TAXONOMY WORMS

Nothing selected

 Clear selections

Taxonomy data table

Location data table

All data

Deck image gallery

In situ image gallery

Map

Show 10 entries

Search:

Sample #	Sample Code	Collection Date	Collection Method	Depth (m)	Depth Zone	Taxonomy	Country	Location	Habitat	Latitude	Longitude	In situ images	Deck images	Videos
	All	All	All			All		All	All		All			
14-X-86-2-007	198611142007	1986-11-14	SNORKEL	2	Atiphotic	<i>Pareurythoe</i> sp.	Ecuador	Post Office Bay, Santa Maria (Isabela Island), Galapagos	rocky and sandy intertidal, embayment with mangroves	-1.225000	-90.440000			
21-X-86-3-006	198611213006	1986-11-21	SCUBA	9	Atiphotic	<i>Pareurythoe</i> sp.	Ecuador	Roca Blanca, East of Isabela, Galapagos	rock slope	-0.546667	-90.856333			
12-X-86-1-084	198611121084	1986-11-12	JSL 1-1911	427	Deep aphotic	<i>Palola</i> sp.	Ecuador	Rocas Gordon, Bearing 232 Degrees 1.96 Nm, Ne Coast of Santa Cruz Is., galapagos	sand/rock slope, 45°	-0.545800	-90.116200			
24-X-86-3-022	198611243022	1986-11-24	JSL 1-1932	317	Deep aphotic	<i>Palola</i> sp.	Ecuador	1.15nm On Course 300 From Punta Espinosa On Ne Corner of Isla Fernandina (1 Mile W Of Ne Point), Gal	rock, boulders, slope 50°s, strewn with small rocks	-0.251833	-91.461333			
27-X-86-1-017	198611271017	1986-11-27	JSL 1-1937	317	Deep aphotic	<i>Palola</i> sp.	Ecuador	.75 Nm Off Punta Essex, Sw Isla Isabela, Galapagos	broken, hard lava rock slope, 70°s	-0.996717	-91.451683			
16-X-86-1-011	198611161011	1986-11-16	JSL 1-1916	560	Deep aphotic	<i>Palola</i> sp.	Ecuador	N of Pta Suarez, Sw Espanola (hood) Island, Galapagos	lo slope, rock ledges with sand	-1.311917	-89.813483			
22-X-86-1-017	198611221017	1986-11-22	JSL 1-1926	780	Deep aphotic	Polynoidae	Ecuador	East Coast Isla Isabela, North of Punta Garcia, Galapagos, 1 Mile From Shore	rock/slope	-0.252950	-91.115300			
26-X-86-2-101	198611262101	1986-11-26	SNORKEL	2	Atiphotic	<i>Coralina</i> sp.	Ecuador	Pta. Moreno, Sw Isla Isabela, Galapagos	boulders off bluff, flat rock bottom	-0.700000	-91.333333			



- Taxonomy data table
- Location data table
- All data
- Deck image gallery
- In situ image gallery
- Map

Choose date range

1985-10-28 2020-05-21

Contains media

Lat[DD] Long[DD]

Input fields for latitude and longitude coordinates.

Zoom to lat long

Country

Ecuador

Depth Zone

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CLASS

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ORDER

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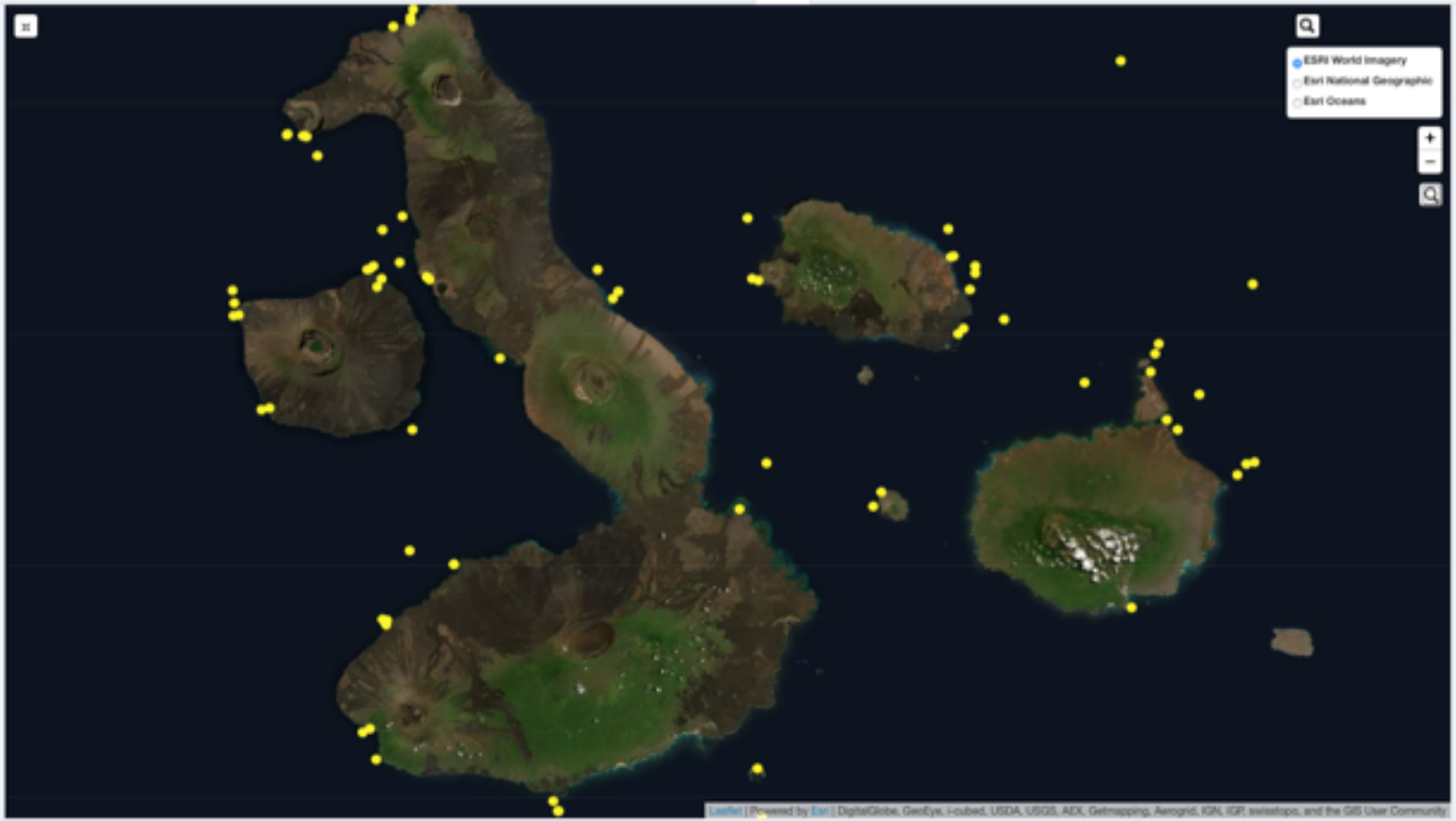
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TAXONOMY WORMS

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Clear selections



Taxonomy data table Location data table All data Deck image gallery In situ image gallery Map

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Country

Ecuador

Depth Zone

Deep aphotic

PHYLUM

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ORDER

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FAMILY

Nothing selected

TAXONOMY WORMS

Nothing selected

Clear selections





Choose date range

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Ecuador

Depth Zone

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TAXONOMY WORMS

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Clear selections

Taxonomy data table

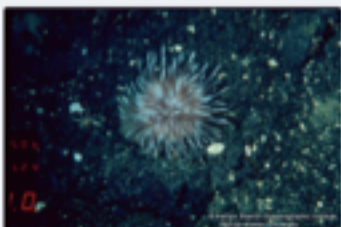
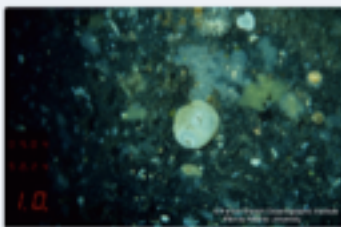
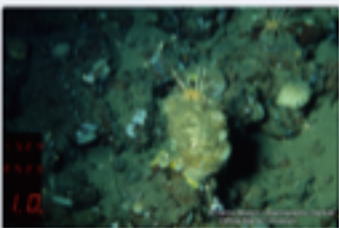
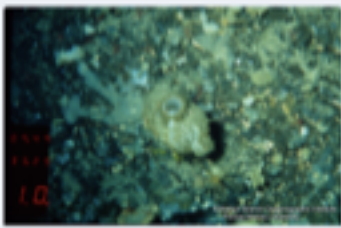
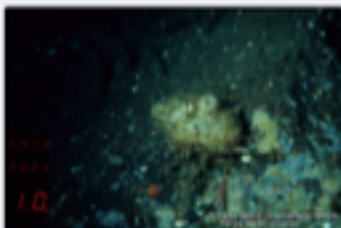
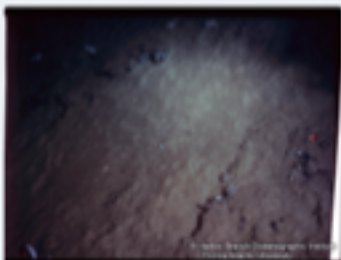
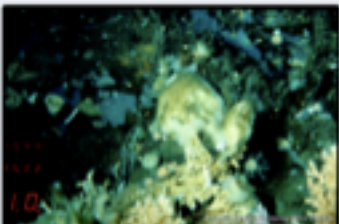
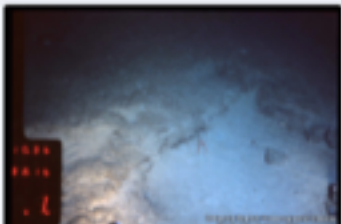
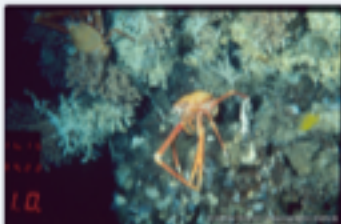
Location data table

All data

Deck image gallery

In situ image gallery

Map



Contains media

Country
Ecuador

Depth Zone
Deep aphotic

PHYLUM
Porifera

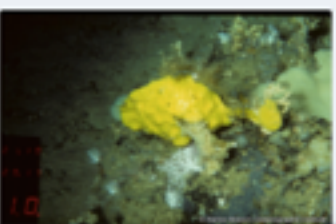
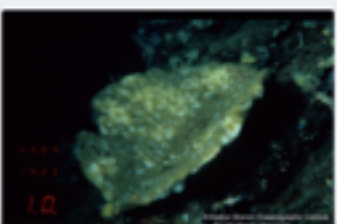
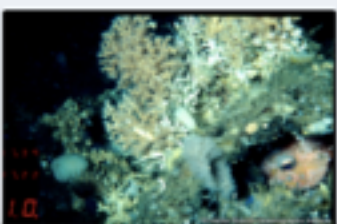
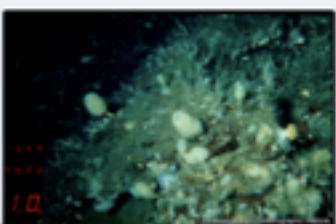
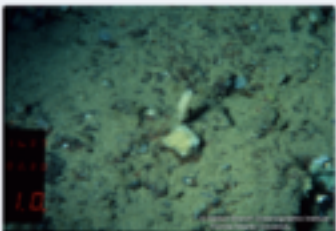
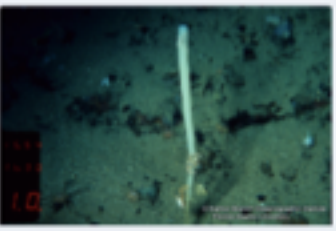
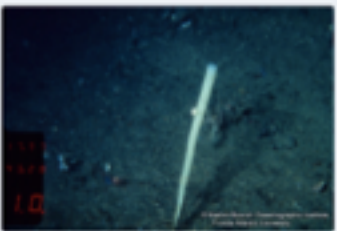
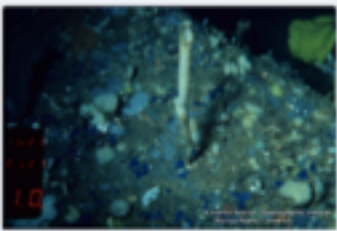
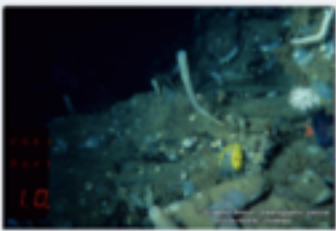
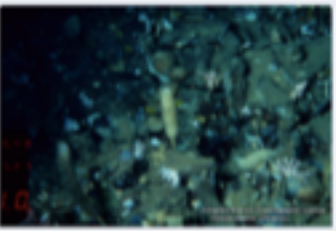
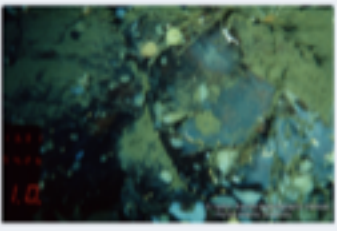
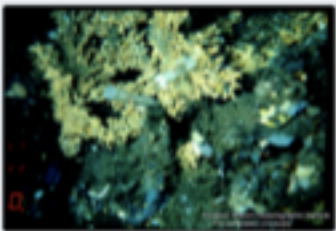
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ORDER
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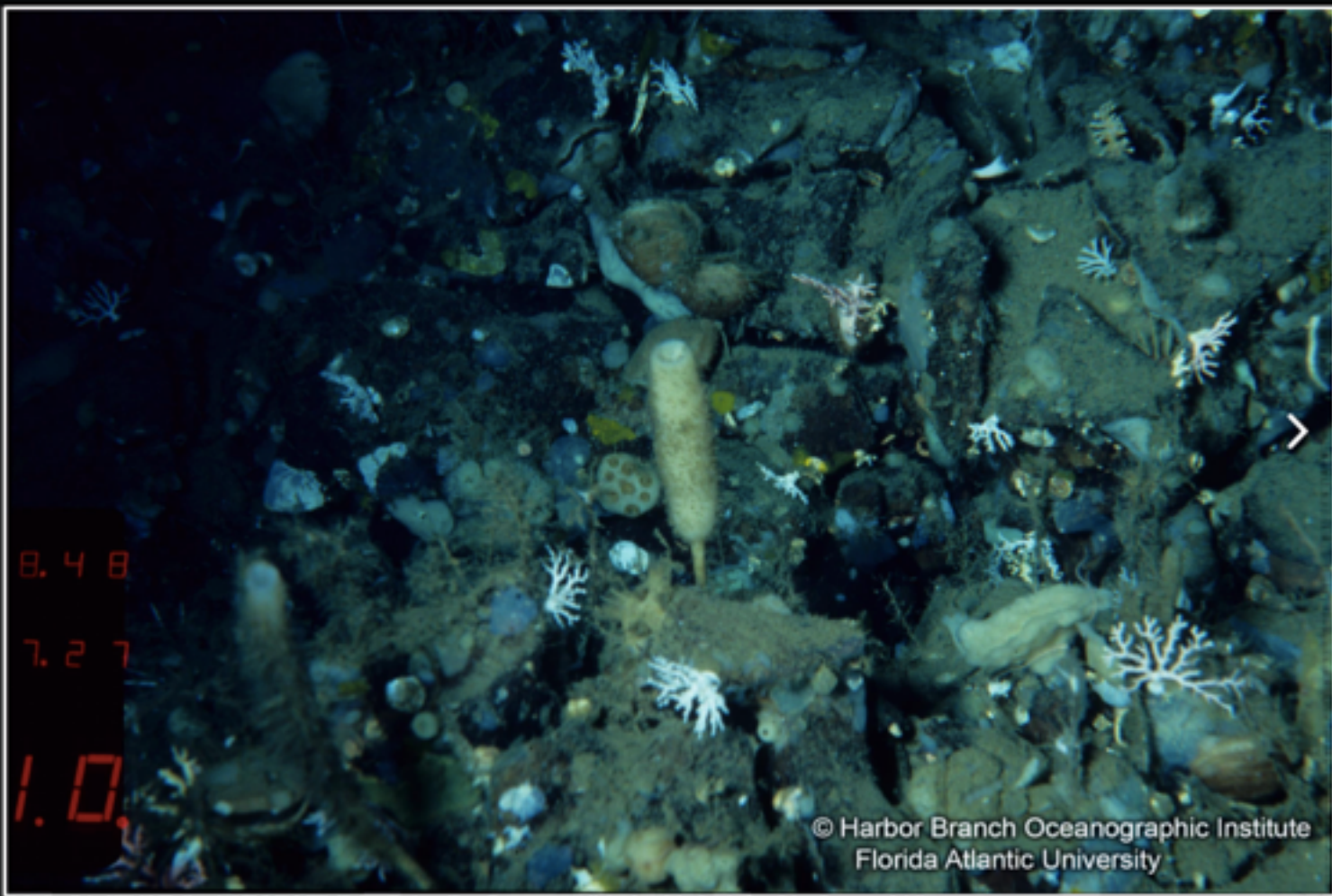
FAMILY
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TAXONOMY WORMS
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Clear selections



- Choose date range
- Contains media
- Country
 - Ecuador
- Depth Zone
 - Deep aphotic
- PHYLUM
 - Porifera
- CLASS
 - Nothing selected
- ORDER
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- FAMILY
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- TAXONOMY WORMS
 - Nothing selected
- Clear selections



8.48
7.27
1.0

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Florida Atlantic University

Collection Date: 1995-10-27 | Sample # 27-A-95-1-000 | Phylum: Porifera | Class: Demospongiae | Order: Axzelella | Family: Axzelellidae | Taxonomy: Axzelella sp.
Image 4 of 126

Next Steps:

HBOI MBRC Database

Choose date range

1985-10-26 - 2000-05-21

Contains media

Lat(DD)

Long(DD)

Zoom to lat long

Country

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Depth Zone

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PHYLUM

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CLASS

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ORDER

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FAMILY

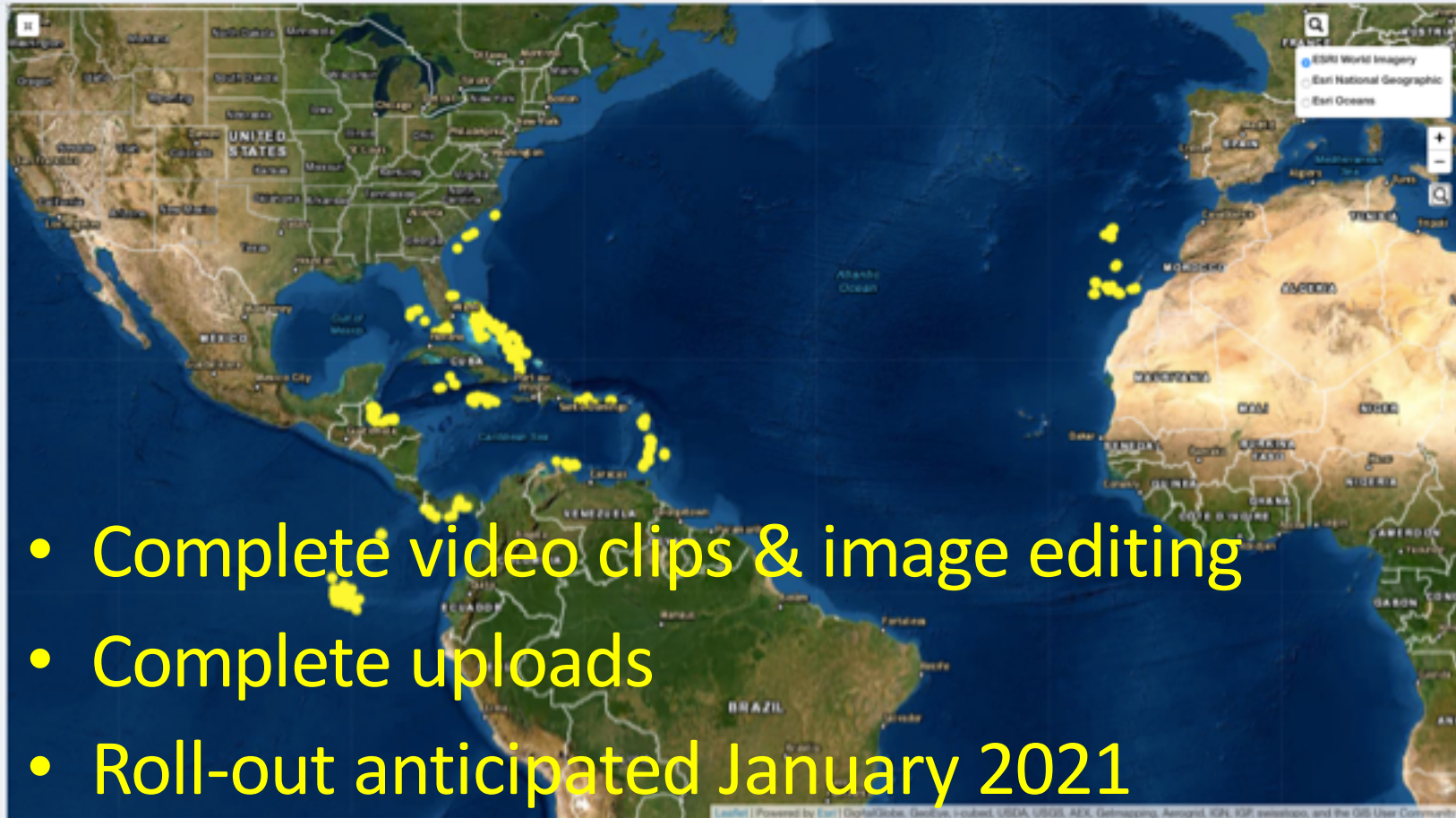
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TAXONOMY WORMS

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Clear selections

Taxonomy data table Location data table All data Deck image gallery In situ image gallery Map



- Complete video clips & image editing
- Complete uploads
- Roll-out anticipated January 2021

Acknowledgements

- Video digitization & annotation:
 - Brian Cousin, Jennifer Sandle, Elizabeth Urban-Gedamke, Kate Beckett
- Image digitization
 - Jim Fredlock
- Image selection & editing
 - John Reed, Amy Wright
- Video clips
 - Brian Cousin
- Web database
 - Bryan Botson



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