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List of Deep-Sea Coral Taxa in the U.S. Southeast Region: Depth and Geographic Distribution (v. 2021)

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This annex to the U.S. Southeast chapter in “The State of Deep-Sea Coral and Sponge Ecosystems in the United States” (Hourigan et al. 2017a) provides a list of deep-sea coral taxa in the Phylum Cnidaria, Classes Anthozoa and Hydrozoa, known to occur in U.S. waters from Cape Hatteras to the Florida Keys (Figure 1). Deep-sea corals are defined as azooxanthellate, heterotrophic coral species occurring in waters 50 meters deep or more. Details are provided on the vertical and geographic extent of each species (Table 1). This list is an update of the peer-

reviewed 2017 list (Hourigan et al. 2017b) and includes taxa recognized through 2021, including one newly described species. Taxonomic names are generally those currently accepted in the World Register of Marine Species ([WoRMS](https://www.marinepecies.org/)), and are arranged by order, and alphabetically within order by family, genus, and species. Data sources (references) listed are those principally used to establish geographic and depth distribution.

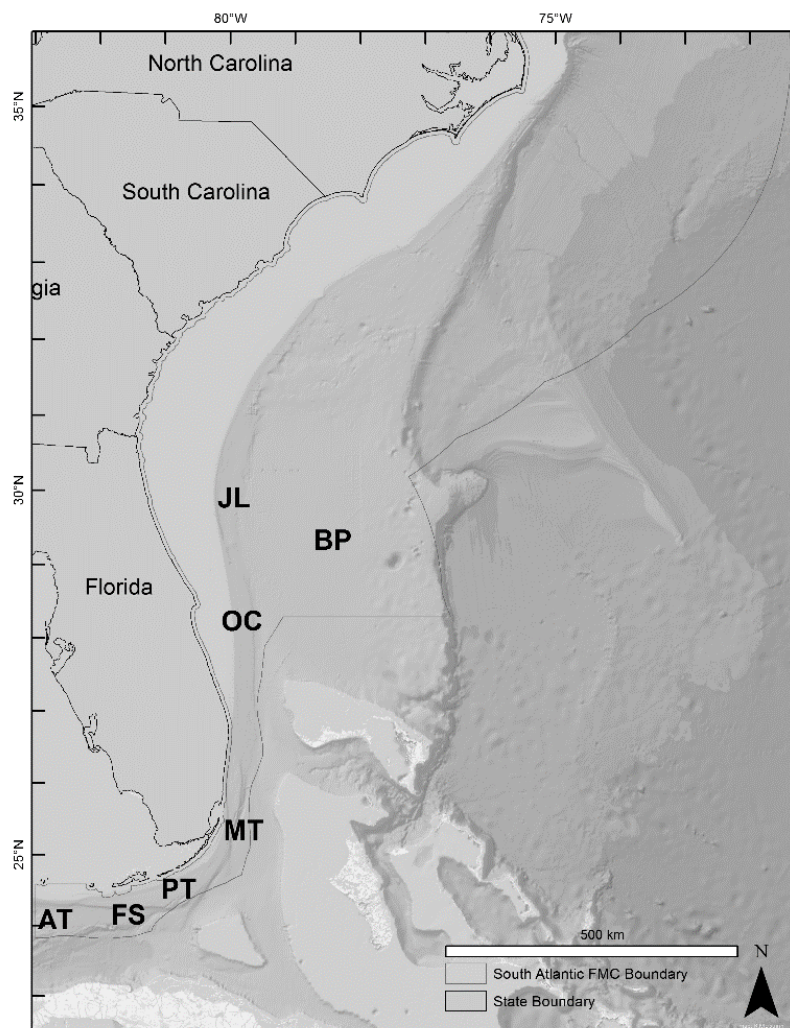


Figure 1. U.S. Southeast region delimiting the geographic boundaries considered in this work. The region extends from Cape Hatteras to the Florida Keys and includes the Jacksonville Lithoherms (JL), Blake Plateau (BP), *Oculina* Coral Mounds (OC), Miami Terrace (MT), Pourtalès Terrace (PT), Florida Straits (FS), and Agassiz/Tortugas Valleys (AT). (Note: A number of additional species not included in this list occur in the Florida Straits in the waters of Cuba and the Bahamas, but have not been confirmed from adjacent U.S. waters).

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Cover Photo: A deep-sea reef formed by the scleractinian coral, *Lophelia pertusa*, found at the top of the crest of Richardson Ridge on the northern Blake Plateau. The U.S. Southeast Region has the greatest extent of deep-sea coral reefs in the nation. Image credit: NOAA Ocean Exploration

Table 1. List of known deep-sea coral species in Phylum Cnidaria, Class Anthozoa and Class Hydrozoa, and their reported distributions in the Southeast U.S. region. Blue shaded fields indicate newly described species since 2017. Bold text indicates changes to the list found in Hourigan et al. (2017), including additions or range extensions, denoted with an asterisk (*), and changes in taxonomy since 2017 denoted with a cross (†) (e.g., species that were listed in 2017, but have since been given a new name or alternative spelling). References are numbered to correspond with citations following the table. Distribution: NC = off North Carolina; SC = off South Carolina; GA = off Georgia; BP = Blake Plateau and Escarpment; FL = off Florida (NEFL = Northeast Florida, SEFL = Southeast Florida, FS = Florida Straits, JL = Jacksonville Lithoherms, OC = *Oculina* Mounds, MT = Miami Terrace, PT = Pourtalès Terrace, AT = Agassiz/Tortugas Valleys, DT = Dry Tortugas, and FK = Florida Keys). Note that locations in parentheses indicate specific localities within Florida where the species has been recorded. When a Museum collection record is the only reference for a species, the distribution listed may not be representative of the full distribution of the species.

Higher Taxon	Species	Distribution	Depth Range (m)	References
Class Anthozoa				
Subclass Hexacorallia				
Order Antipatharia				
Family Antipathidae	<i>Antipathes atlantica</i> Gray, 1857	NC-SC	20-91	1,2,3
	<i>Antipathes gracilis</i> Gray, 1860	NC-NEFL	31-88	1,2
	<i>Antipathes lenta</i> Pourtalès, 1871	SC-NEFL	20-100	1,3
	<i>Stichopathes luetkeni</i> Brook, 1889 (= <i>Stichopathes lutkeni</i> , alternative spelling)	SEFL(OC)	50-90	4,5
	<i>Stichopathes occidentalis</i> (Gray, 1857)	NC	67	1
	*<i>Stichopathes pourtalesi</i> Brook, 1889	FL(PT)	75-229	1,6
	<i>Stichopathes</i> sp.	NC-FS(PT)	30-314	1,5
Family Aphanipathidae	†*<i>Aphanostichopathes dissimilis</i> (Roule, 1902)^a	BP	1273	1,7
	cf. <i>Phanopathes rigida</i> (Pourtalès, 1880) [= cf. <i>Antipathes rigida</i> (Pourtalès, 1880)]	FS(PT)	250-320	8
Family Cladopathidae	<i>Chrysopathes micracantha</i> Opresko & de Laia Loiola, 2008	BP(GA, NEFL)	658-871	1,9
	<i>Heteropathes americana</i> (Opresko 2003) (= <i>Heliopathes americana</i> Opresko 2003)	GA	1682-2200	1,10
Family Leiopathidae	<i>Leiopathes glaberrima</i> (Esper, 1788)	GA, FL	37-475	2,11,12
	*<i>Leiopathes</i> sp. cf. <i>L. montana</i> Molodtsova, 2011	BP	558	1
Family Myriopathidae	<i>Tanacetipathes barbadensis</i> (Brook, 1889)	FL	13-285	1
	<i>Tanacetipathes hirta</i> (Gray, 1857)	NC-FL	25-400	3,4
Family Schizopathidae	*<i>Alternatipathes</i> sp.	BP	1248	1,13
	<i>Bathypathes patula</i> Brook, 1889	BP	762	1
	<i>Bathypathes pseudoalternata</i> Molodtsova, Opresko & Wagner, 2022	BP, GA, FL	519-1321	1,8,13,14
	<i>Parantipathes tetrasticha</i> (Pourtalès, 1868)	FS(PT)	176-225	1,8
	*<i>Stauropathes</i> sp. cf. <i>S. punctata</i> (Roule, 1905)	BP	1217-1321	1
Family Stylopathidae	<i>Stylopathes litocrada</i> Opresko, 2006	FL(OC,PT)	91-380	1,15

Higher Taxon	Species	Distribution	Depth Range (m)	References
Order Scleractinia				
Family Anthemiphylliidae	<i>Anthemiphyllia patera patera</i> Pourtalès, 1878	SEFL	500-700	16
Family Caryophylliidae	<i>Anomocora fecunda</i> (Pourtalès, 1871)	FS	37-640	17,18
	<i>Anomocora marchadi</i> (Chevalier, 1966) (= <i>Asterosmilia marchadi</i> Chevalier, 1966)	SEFL	35-229	19
	<i>Anomocora prolifera</i> (Pourtalès, 1871) (= <i>Asterosmilia prolifera</i> Pourtalès, 1871)	SEFL,FS	30-329	16,19
	<i>Caryophyllia</i> (<i>Caryophyllia</i>) <i>ambrosia caribbeana</i> Cairns, 1979	FS(PT)	183-2360	1,16,19
	<i>Caryophyllia</i> (<i>C.</i>) <i>berteriana</i> Duchassaing, 1850	SEFL	99-1033	1,17
	<i>Caryophyllia</i> (<i>C.</i>) <i>paucipalata</i> Moseley, 1881	SEFL	293-752	1,17
	<i>Caryophyllia</i> (<i>C.</i>) <i>polygona</i> Pourtalès, 1878	GA, SEFL	310-1817	17
	<i>Cladocora debilis</i> Milne Edwards & Haime, 1849 ^b	FS	11-400	1,18
	<i>Coenosmilia arbuscula</i> Pourtalès, 1874	FS	74-622	1
	<i>Concentrotheca laevigata</i> (Pourtalès, 1871)	SC-FS(PT)	183-576	1,17
	<i>Crispatotrochus squiresi</i> (Cairns, 1979)	SC-SEFL	46-807	1,17
	<i>Dasmosmilia lymani</i> (Pourtalès, 1871)	NC-FS(PT)	37-366	1,17
	<i>Dasmosmilia variegata</i> (Pourtalès, 1871)	FS	110-421	1,17
	<i>Desmophyllum dianthus</i> (Esper, 1794)	NC-FS	183-2250	1,16
	<i>Labyrinthocyathus facetus</i> Cairns, 1979	SC-SEFL	385-768	1,17
	<i>Labyrinthocyathus langae</i> Cairns, 1979	GA-FS	506-810	1,17
	<i>Lophelia pertusa</i> (Linnaeus, 1758) †[= <i>Desmophyllum pertusum</i> (Linnaeus, 1758)] ^c	NC-FS(PT)	146-895	4,8,16,17,19
	<i>Oxysmilia rotundifolia</i> (Milne Edwards & Haime, 1849)	SC-FS	46-640	1,17
	<i>Paracyathus pulchellus</i> (Philippi, 1842)	NC-FS(PT)	17-250	1,17
	<i>Phacelocyathus flos</i> (Pourtalès, 1878)	FS	20-560	1
	<i>Phyllangia americana americana</i> Milne Edwards & Haime, 1849	NC-FL	0-183	4,5,18
	<i>Phyllangia pequegnatae</i> Cairns, 2000	GA	48-112	1,19
	<i>Polycyathus senegalensis</i> Chevalier, 1966	NC-SEFL	12-143	1,19
	<i>Pourtalosmilia conferta</i> Cairns, 1978	NC,SEFL	55-191	1,19
	<i>Premocyathus cornuformis</i> (Pourtalès, 1868)	GA-FS	137-931	1
	<i>Rhizosmilia maculata</i> (Pourtalès, 1874) (= <i>Coenocyathus bartschi</i> Wells, 1947)	SEFL-DT	1-1317	1,19
	<i>Solenosmilia variabilis</i> Duncan, 1873	GA-FS	220-1383	14,16,17,19,20
	<i>Stephanocyathus</i> (<i>Odontocyathus</i>) <i>coronatus</i> (Pourtalès, 1867)	BP,FS	543-1250	1
	<i>Stephanocyathus</i> (<i>Stephanocyathus</i>) <i>diadema</i> (Moseley, 1876)	BP,FS	700-2683	1,17
	<i>Stephanocyathus</i> (<i>S.</i>) <i>laevifundus</i> Cairns, 1977	SEFL	300-1158	1,17
<i>Stephanocyathus</i> (<i>S.</i>) <i>paliferus</i> Cairns, 1977	FL-FS	220-715	17	

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Caryophylliidae cont.	<i>Tethocyathus cylindraceus</i> (Pourtalès, 1868)	FS(PT)	183-649	1
	<i>Tethocyathus recurvatus</i> (Pourtalès, 1878)	FS(PT)	320-488	17,18
	<i>Tethocyathus variabilis</i> Cairns, 1979	SEFL	250-576	17,18
	<i>Thalamophyllia gombergi</i> Cairns, 1979	FS(PT)	155-220	1
	<i>Thalamophyllia riisei</i> (Duchassaing & Michelotti, 1860)	FS	4-914	1
	<i>Trochocyathus (Trochocyathus) rawsonii</i> Pournalès, 1874	SC-FS(PT)	55-700	1,17
Family Deltocyathidae	<i>Deltocyathus calcar</i> Pournalès, 1874	NC-FS(PT)	81-675	17
	<i>Deltocyathus eccentricus</i> Cairns, 1979	SC-FS(PT,AT)	183-910	17
	<i>Deltocyathus italicus</i> (Michelotti, 1838)	NEFL-FS	403-2634	16,18
	<i>Deltocyathus moseleyi</i> Cairns, 1979	SEFL	201-777	1,17
	<i>Deltocyathus pourtalesi</i> Cairns, 1979	SC-FS(PT)	311-567	1,17
Family Dendrophylliidae	<i>Balanophyllia (Balanophyllia) floridana</i> Pournalès, 1868	NC-FS	13-220	1,19
	<i>Bathypsammia fallosocialis</i> Squires, 1959	SC-SEFL	213-805	1,17
	<i>Bathypsammia tintinnabulum</i> (Pournalès, 1868)	SC-FS	210-1115	1,17
	<i>Cladopsammia manuelensis</i> (Chevalier, 1966)	FS(PT)	70-366	1,16
	<i>Dendrophyllia alternata</i> Pournalès, 1880	SEFL(BP)	276-900	1
	<i>Eguchipsammia cornucopia</i> (Pournalès, 1871)	FS(PT)	91-300	1,16
	<i>Eguchipsammia gaditana</i> (Duncan, 1873)	NC,GA	97-505	1,19
	<i>Eguchipsammia strigosa</i> Cairns, 2000	NC	25-77	1,19
	<i>Enallopsammia profunda</i> (Pournalès, 1867)	NC(NBP)-FS(PT,AT)	305-1748	5,8,16,21
	<i>Enallopsammia rostrata</i> (Pournalès, 1878)	SC	300-1646	16,17
	<i>Thecopsammia socialis</i> Pournalès, 1868	NC(NBP)-FS(PT)	214-878	1,17
Family Flabellidae	<i>Flabellum (Flabellum) atlanticum</i> Cairns, 1979	SEFL	357-618	1
	<i>Flabellum (F.) floridanum</i> Cairns, 1991 (= <i>Flabellum fragile</i> Cairns, 1977)	FS(FK)	86-366	1
	*<i>Flabellum (Ulocyathus) angulare</i> Moseley, 1876	NC	2266-3186	1
	<i>Flabellum (U.) moseleyi</i> Pournalès, 1880	FS	216-1097	1,17
	<i>Javana cailleti</i> (Duchassaing & Michelotti, 1864)	SEFL, FS	30-1809	16
	<i>Polymyces fragilis</i> (Pournalès, 1868)	FS(PT)	75-822	16,17
Family Fungiacyathidae	<i>Fungiacyathus (Bathyactis) crispus</i> (Pournalès, 1871)	NC-FL	183-1115	16
	<i>Fungiacyathus (B.) symmetricus</i> (Pournalès, 1871)	SEFL,FS	183-1664	17
	<i>Fungiacyathus (Fungiacyathus) pusillus</i> (Pournalès, 1868)	FS(PT)	285-685	17
Family Gardineriidae	<i>Gardineria paradoxa</i> (Pournalès, 1868)	FL(FS)	91-700	17
Family Oculinidae	<i>Madrepora carolina</i> (Pournalès, 1871)	NC-FL	53-1003; commonly 200-300	5,16,17,19,20
	<i>Madrepora oculata</i> Linnaeus, 1758	NC-FL	80-1500	4,8,16,17,19,20

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Oculinidae cont.	<i>Oculina tenella</i> Pourtalès, 1871	SEFL,FS	25-159	19
	<i>Oculina varicosa</i> Lesueur, 1821	NC-FL	3-150	1,4,16,17,19,20,22
Family Pocilloporidae	<i>Madracis asperula</i> Milne Edwards & Haime, 1849	FS	24-311	1,19
	<i>Madracis myriaster</i> (Milne Edwards & Haime, 1849)	NC-FS(PT)	20-1220 Commonly 150-300	1,4,5,14,17,19
	† <i>Madracis pharensis</i> (Heller, 1868) † [= <i>Madracis pharensis f. pharensis</i> (Heller, 1868) in part]	NC	6-333	19
Family Rhizangiidae	<i>Astrangia poculata</i> (Ellis & Solander, 1786)	NC to FL	0-263	16
Family Schizocyathidae	<i>Pourtalocyathus hispidus</i> (Pourtalès, 1878)	FL-FS	349-1006	1,17
	<i>Schizocyathus fissilis</i> Pourtalès, 1874	SEFL	88-1300	18,19
Family Stenocyathidae	<i>Stenocyathus vermiformis</i> (Pourtalès, 1868)	GA(BP), FS(PT)	165-835	16
Family Turbinoliidae	<i>Cryptotrochus carolinensis</i> Cairns, 1988	NC (NBP)	320-338	1,23
	<i>Deltocyathoides stimpsonii</i> (Pourtalès, 1871)	SC(BP)-FS	110-553	1,17
	<i>Peponocyathus folliculus</i> (Pourtalès, 1868)	NC-FS	284-457	1,16

Higher Taxon	Species	Distribution	Depth Range (m)	References
Class Anthozoa				
Subclass Octocorallia				
Order Alcyonacea				
Family Acanthogorgiidae	* <i>Acanthogorgia armata</i> Verrill, 1878	NC, GA	27-538	1
	<i>Acanthogorgia aspera</i> Pourtalès, 1867	SBP-FS(PT)	56-1481	1,24
Family Alcyoniidae	<i>Anthomastus agassizii</i> Verrill, 1922	GA,FL	320-3186	1,8,25,26
	<i>Anthomastus grandiflorus</i> Verrill, 1878	NC	750-2914	1,24,25
	<i>Bellonella rubistella</i> (Deichmann, 1936)	SC-SEFL	24-366	1,27
	* <i>Pseudoanthomastus sp.</i>	SC-FL(BP)	690-712	1
Family Anthothelidae	<i>Anthothela grandiflora</i> (Sars, 1856) ^d	FL(JL,FS)	744-868	1
	<i>Anthothela tropicalis</i> Bayer, 1961	BL-FS	173-805	1,28
	<i>Iciligorgia schrammi</i> Duchassaing, 1870	SEFL	11-366	4,5,29
	* <i>Lateothela grandiflora</i> (Tixier-Durivault & d'Hondt, 1974)	BP	695	1
Family Chrysogorgiidae	<i>Chrysogorgia herdendorfi</i> Cairns, 2001	BP	2178-2200	24,30
	<i>Chrysogorgia multiflora</i> Deichmann, 1936	GA-FS	1021-1200	24,30
	<i>Chrysogorgia spiculosa</i> (Verrill, 1883)	FS	914-2265	1,24,30
	<i>Chrysogorgia squamata</i> (Verrill, 1883)	BP,JL	431-1046	1,8,24
	* <i>Chrysogorgia tricaulis</i> Pante & Watling, 2011	BP	1208	1
	<i>Distichogorgia sconsa</i> Bayer, 1979	BP	814	24,31

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Chrysogorgiidae cont.	<i>Flagelligorgia gracilis</i> Cairns & Cordeiro, 2017	NC-FS	196-567	1,32
	<i>Iridogorgia pourtalesii</i> Verrill, 1883	FS(PT)	558-1633	33,34
	* <i>Metallogorgia</i> sp. ^e	BP	1248	35,36
	<i>Radicipes gracilis</i> (Verrill, 1884)	NC-SEFL	196-567	1,24
Family Clavulariidae	<i>Carijoa riisei</i> (Duchassaing & Michelotti, 1860)	SC-FK	0-104	4,5,27
	* <i>Clavularia</i> sp. cf. <i>C. grandiflora</i> (Nutting, 1908)	FL(BP)	734	1
	<i>Clavularia modesta</i> (Verrill, 1874)	SC,GA	29-861	1
	<i>Scleranthelia rugosa</i> (Pourtalès, 1867)	SC-SEFL	70-586	1,27
	<i>Telesto fruticulosa</i> Dana 1846	NC-NEFL	7-100	1,24,27
	<i>Telesto nelleae</i> Bayer, 1961	NC	27-227	1,27,29
	<i>Telesto sanguinea</i> Deichmann, 1936	SC-FK	18-134	1,27
	<i>Telestula tubaria</i> (Wright & Studer, 1889)	FK	1281-1464	1
	*† <i>Trachythela rudis</i> Verrill, 1922 [= <i>Clavularia rudis</i> (Verrill, 1922)]	NC-NEFL(BP)	805-1242	1
Family Coralliidae	<i>Corallium medea</i> Bayer, 1964	SEFL	544-1426	1,24
	* <i>Hemicorallium bayeri</i> (Simpson & Watling, 2010)	SEFL	695-776	1,37
	<i>Hemicorallium niobe</i> (Bayer, 1964) (= <i>Corallium niobe</i> Bayer, 1964)	SEFL	668-1609	24
Family Ellisellidae	<i>Ellisella elongata</i> (Pallas, 1766) (= <i>Ellisella barbadensis</i> (Duchassaing & Michelotti, 1864); <i>Ctenocella</i> (<i>Viminella</i>) <i>barbadensis</i> ; <i>Viminella barbadensis</i>)	SC-FS(PT)	12-453	14,27,38
	<i>Ellisella grandis</i> (Verrill, 1901) (= <i>Ctenocella</i> (<i>Ellisella</i>) <i>grandis</i>)	FS	42-305	38
Family Gorgoniidae	<i>Eunicella albatrossi</i> Stiasny 1941	BP	530-950	1
	<i>Eunicella modesta</i> Verrill, 1883	BP-SEFL	475-880	1,8,24
	<i>Leptogorgia cardinalis</i> (Bayer, 1961)	NEFL	19-77	27,38
	<i>Leptogorgia euryale</i> (Bayer, 1952)	SC	15-91	27
	<i>Leptogorgia hebes</i> Verrill, 1869	NC-NEFL	8-116	4,27
	<i>Leptogorgia punicea</i> (Milne Edwards & Haime, 1857)	NC-SEFL	20-105	27
	<i>Leptogorgia stheno</i> (Bayer, 1952)	FS	26-183	1,38
	<i>Leptogorgia virgulata</i> (Lamarck, 1815)	NC-SEFL	2-82	5,27,38
Family †Keratoisididae ^f (formerly Isididae, in part)	† <i>Acanella</i> sp. cf. <i>A. arbuscula</i> (Johnson, 1862) ^g [= <i>Acanella</i> cf. <i>eburnea</i> (Pourtalès, 1868)]	SC	309-2100	1,18
	* <i>Acanella aurelia</i> Saucier & France, 2017	FS	1114	1
	* <i>Cladaris</i> sp.	BP	717-720	1
	<i>Isidella</i> sp. 1 (<i>sensu</i> Reed et al. 2008)	FL(PT,JL)	744-762	1,8
	<i>Keratoisid flexibilis</i> (Pourtalès, 1868)	BP-FS(PT)	170-816	1,8,14
	<i>Keratoisid grayi</i> (Wright, 1869) (= <i>Keratoisid ornata</i> Verrill, 1878)	BP	274-3235	1,24

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Keratoisididae cont.	<i>Lepidisis caryophyllia</i> Verrill, 1883	FS	1003-1064	1,38
	<i>Lepidisis longiflora</i> Verrill, 1883 ^h	SEFL	752-1235	1
Family Keroeididae	*<i>Thelogorgia studeri</i> Bayer, 1991	FS	12-82	39
Family Nephtheidae	*<i>Duva florida</i> (Rathke, 1806)	BP	712-732	1
	<i>Gersemia fruticosa</i> (Sars, 1860)	FL	770	1
	<i>Pseudodrifa nigra</i> (Pourtalès, 1868) (= <i>Capnella nigra</i> ; <i>Eunephtya nigra</i> ; <i>Nephtya nigra</i>)	SC-FS(PT)	60-1153	1,8,26,27
Family Nidaliidae	<i>Nidalia dissidens</i> Verseveldt & Bayer, 1988	SEFL	274-539	38
	<i>Nidalia occidentalis</i> Gray, 1835	NC-SEFL	37-440	1,4,5,27
Family Paragorgiidae	<i>Paragorgia arborea</i> (Linnaeus, 1758)	NC	200-800	18
	<i>Paragorgia johnsoni</i> Gray, 1862 (= <i>Paragorgia boschmai</i> Bayer, 1964)	NC-SEFL	522-1272	1,24
Family Plexauridae ⁱ	<i>Bebryce cinerea</i> Deichmann, 1936	SC	76-549	27
	<i>Bebryce parastellata</i> Deichmann, 1936	NC	40-586	27,40
	<i>Muricea laxa</i> Verrill, 1864 ^j	SEFL	18-128	1,38
	<i>Muricea pendula</i> Verrill, 1868 ⁱ	NC-FK	13-125	24,27
	<i>Muriceides hirta</i> (Pourtalès, 1868) (= <i>Trachymuricea hirta</i> , <i>Acanthogorgia hirta</i>)	FS(PT)	681-716	8
	<i>Paramuricea</i> sp.	SC	78	27
	<i>Paramuricea multispina</i> Deichmann, 1936	SEFL,FS(PT)	106-1289	1,8,14,41
	<i>Paramuricea placomus</i> (Linnaeus, 1758)	SC-FS(PT)	462-470	1,14,24,41
	<i>Placogorgia mirabilis</i> Deichmann, 1936	FS(PT)	53-261	14
	<i>Scleracis guadalupensis</i> (Duchassaing & Michelotti, 1860)	NC,FL	18-715	27
	<i>Spinimuricea atlantica</i> (Johnson, 1862) (= <i>Echinomuricea cf. atlantica</i>)	FS(MT)	284-323	8
	<i>Swiftia casta</i> (Verrill, 1883)	GA,FS	53-937	1,14,33,42
	<i>Swiftia exserta</i> (Ellis & Solander, 1786)	JL,MT	21-494	1,4,38
	<i>Swiftia koreni</i> (Studer, 1889)	JL,FS(PT)	97-985	1,38
	*<i>Swiftia pallida</i> Madsen, 1970	NC	1398-1507	1
	<i>Swiftia pourtalesii</i> Deichmann, 1936	FS	174-221	24,33,40
	*<i>Thesea citrina</i> Deichmann, 1936	NC	76-159	1
	*<i>Thesea gracilis</i> (Gray, 1868)	NC	73-110	1
*<i>Thesea granulosa</i> Deichmann, 1936	FS(PT)	174-210	1	
Family Plexauridae, cont.	<i>Thesea parviflora</i> Deichmann, 1936	NC (Cape Hatteras), FS(PT)	81-183	1,14
	<i>Thesea solitaria</i> (Pourtalès, 1868)	FS	185-318	38,43
	<i>Villogorgia</i> sp. cf. <i>V. nigrescens</i> Duchassaing & Michelotti, 1860	FS(PT)	215	14
Family Primnoidae	<i>Acanthoprímnoa goesi</i> (Aurivillius, 1931)	FS(PT)	137-711	24,44
	<i>Callogorgia americana</i> Cairns & Bayer 2002	FS(PT)	183-732	24,45,46

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Primnoidae cont.	(= <i>Callogorgia americana americana</i>)			
	<i>Callogorgia gracilis</i> (Milne Edwards & Haime, 1857)	SEFL	82-514	18,24,45,46
	<i>Calyptrophora gerdae</i> Bayer, 2001	FS	229-556	18,24
	<i>Calyptrophora trilepis</i> (Pourtales, 1868)	BP	593-911	24,47
	<i>Candidella imbricata</i> (Johnson, 1862)	BP,SEFL	514-2063	8,24,44
	<i>Narella bellissima</i> (Kükenthal, 1915)	SEFL	439-841	24
	<i>Narella pauciflora</i> Deichmann, 1936	SEFL	738-1542	24
	<i>Narella regularis</i> (Duchassaing & Michelotti, 1860)	SEFL	494-868	1,24
	<i>Narella versluysi</i> (Hickson, 1909)	SEFL	668-2118	24,48
	<i>Paracalyptrophora duplex</i> Cairns & Bayer, 2004	FL	374-555	24,44
	<i>Plumarella aurea</i> (Deichmann, 1936)	SC-FL	310-878	18,24,44
	<i>Plumarella dichotoma</i> Cairns & Bayer, 2004	SC-FL	494-1065	24,44
	<i>Plumarella laxiramosa</i> Cairns & Bayer, 2004	NC,SC	348-572	24,44
	<i>Plumarella pellucida</i> Cairns & Bayer, 2004	NC-FS	549-1160	1,24,44
	<i>Plumarella pourtalesii</i> (Verrill, 1883)	NC-FS	183-893	1,8,14,24,44
	*† <i>Thouarella (Euthouarella) hilgendorfi</i> (Studer, 1879) ^k (= <i>Thouarella</i> (E.) <i>grasshoffi</i> Cairns, 2006)	BP	720-1760	1,49
<i>Thouarella (Thouarella) bipinnata</i> Cairns, 2006	BP-SEFL	507-1000	1,24,49	
Family Spongiodermidae	<i>Callipodium rubens</i> (Verrill, 1872) (= <i>Anthopodium rubens</i> Verrill, 1872)	NC,OC	9-92	5,29
	<i>Diodogorgia nodulifera</i> (Hargitt & Rogers, 1901)	GA-FL	20-183	1,4,5,27,29
	<i>Titanideum frauenfeldii</i> (Kölliker, 1865)	NC-FL	13-293	1,4,5,29,50
Order Pennatulacea				
Family Anthoptilidae	<i>Anthoptilum grandiflorum</i> (Verrill, 1879) (= <i>Benthoptilum sertum</i> Verrill, 1885)	NC,SC,FL(BP)	274-3651	1,51
	<i>Anthoptilum murrayi</i> Kölliker, 1880	SC	430-2491	1
Family Funiculinidae	<i>Funiculina quadrangularis</i> (Pallas, 1766)	BP	55-2866	42
Family Kophobelemnidae	<i>Kophobelemnon stelliferum</i> (Müller, 1776)	NC,SC	393-2199	1
	<i>Sclerobelemnon theseus</i> Bayer, 1959	SC	79	27
Family Pennatulidae	* <i>Gyrophyllum hironellei</i> Studer, 1891	BP	940-1086	1
	* <i>Pennatula aculeata</i> Danielssen, 1860	NC	2914	1,35
Family Protoptilidae	* <i>Protoptilum carpenteri</i> Kölliker, 1872	NC	1910	1
Family Renillidae	<i>Renilla reniformis</i> (Pallas, 1766)	NC-FL	1-73 off NC	1,27
Family Umbellulidae	<i>Umbellula lindahli</i> Kölliker, 1875 (= <i>Umbellula lindahlia</i> – alternative spelling)	BP	549-3338	1
Family Virgulariidae	<i>Acanthoptilum</i> sp.	NC-FL	49-279	1,52
	<i>Acanthoptilum agassizii</i> Kölliker, 1870	FS	64-183	52
	<i>Acanthoptilum pourtalesii</i> Kölliker, 1870 ¹	FS	22-80	40
	<i>Stylatula elegans</i> (Danielssen, 1860)	SC-FL	20-812	1,27,52

Higher Taxon	Species	Distribution	Depth Range (m)	References
Family Virgulariidae cont.	<i>Virgularia presbytes</i> Bayer, 1955	NC-FL	9-110	4,27,29

Higher Taxon	Species	Distribution	Depth Range (m)	References
Class Hydrozoa				
Subclass Hydroidolina				
Order Anthoathecata				
Family Stylasteridae	<i>Crypthelia floridana</i> Cairns, 1986	SBP,FS(PT)	593-823	53
	<i>Crypthelia glossopoma</i> Cairns, 1986	FS(PT)	198-864	53
	<i>Distichopora foliacea</i> Pourtalès, 1868	GA,FS(PT)	174-527	14,53,54
	<i>Errina cochleata</i> Pourtalès, 1867	FS	194-534	55
	<i>Lepidopora biserialis</i> Cairns, 1986	FS	196-370	55
	<i>Lepidopora glabra</i> (Portalès, 1867)	FS	159-2021	54,55
	<i>Pliobothrus echinatus</i> Cairns, 1986	FS(PT)	164-750	1,14,53,54
	<i>Pliobothrus symmetricus</i> Pourtalès, 1868	SC-FS(PT)	139-1100; commonly 150-400	53,54
	<i>Stylaster complanatus</i> Pourtalès, 1867	GA	183-707	53
	<i>Stylaster duchassaingi</i> Pourtalès, 1867	FS(PT)	40-915	1,54,55
	<i>Stylaster erubescens</i> Pourtalès, 1868	SC-FS	146-965; commonly 650-850	14,53,54
	<i>Stylaster filigranus</i> Pourtalès, 1871	PT	175-549	14,54
	<i>Stylaster laevigatus</i> Cairns, 1986	SC	20-1170; commonly 300-400	53,54
	<i>Stylaster miniatus</i> (Portalès, 1868)	SC-FS(PT)	146-530	14,53,55
<i>Stylaster roseus</i> (Pallas, 1766)	SC(BP)	2-494; commonly <100	54,55	

Notes

- A number of unbranched black corals previously identified as "*Stichopathes* sp." have been observed in the U.S. southeast at depths between 700 and 1400 m from Georgia to the Florida Straits. It is likely that these belong to the genus *Aphanostichopathes* in the Family Aphanipathidae, recently described by Opresko et al. (2021)
- WoRMS lists the family for genus *Cladocora* as uncertain (*Scleractinia incertae sedis* – temporary name). There is also one specimen identified as *Cladocora arbuscula* Lesueur, 1881 (USNM 93262) collected at 91 m depth off South Carolina. *C. arbuscula* is reported as zooxanthellate and occurring at much shallower depths.
- Transfer of *Lophelia pertusa* to the genus *Desmophyllum* was been recently based on genetic similarity of mitochondrial genomes and microsatellites (Addamo et al. 2016), and this change has been accepted by WoRMS. However, because of the significant morphological difference between these two genera and a difference of opinion even among molecular scientists, we suggest delaying this transfer until additional molecular studies are done on more genes.

- d. Moore et al. (2017) re-described *Anthothela grandiflora* (Sars, 1856) and placed many specimens previously identified as this species in a different genus: *Lateothela grandiflora* (Tixier-Durivault & D'Hondt, 1974). They did not examine the two specimens from the Southeast identified as *A. grandiflora*, however they occur within the range identified for this species. *A. grandiflora* and *L. grandiflora* co-occur in many localities, so either or both may be represented in this region.
- e. Records of *Metallogorgia* sp. are only from video collected from recent surveys in the region (NOAA Ship *Okeanos Explorer*, cruise EX1806), however the morphology of this genus is very distinctive, and specimens have been collected from nearby waters in the Bahamas (USNM 55918) and Cuba (USNM 100892).
- f. Saucier et al. (2021) have revised the phylogeny of the bamboo corals (formerly Isididae), resulting in five families. The bamboo corals described from the SE U.S. all belong to in the new family Keratoisididae.
- g. Saucier et al. (2017) have proposed that *Acanella eburnea* be synonymized with *A. arbuscula*. Reference: Saucier EH, Sajjadi A, France SC (2017) A taxonomic review of the genus *Acanella* (Cnidaria: Octocorallia: Isididae) in the North Atlantic Ocean, with descriptions of two new species. *Zootaxa* 4323:359-390.
- h. Watling & France (2021) redescribed *Lepidisis caryophyllia* Verrill, 1883, the type species for the genus *Lepidisis*, using both genetic and morphological features. They note that based on limited sequence data from the mitochondrial 16S gene, *L. longiflora* shows a closer relationship to the clade that includes *Jasonisis* than to *Lepidisis* and therefore may belong in a different genus.
- i. One plexaurid, *Pseudoplexaura porosa* (Houttuyn, 1772), which was included in our 2017 list, has been removed. Sanchez & Wirshing (2005) and Schubert et al. (2016) reported that *P. porosa* is a zooxanthellate species. The latter also indicate that this species occurs primarily shallower than 50m, so the previously reported deepest record (283m) may be incorrect.
- j. Schubert et al. (2016) have identified *Muricea laxa* and *M. pendula* as zooxanthellate octocorals, however, the depth range of these species in the Southeast U.S. is significantly deeper than most other zooxanthellate octocorals. Sánchez et al. (2019) identifies the genus *Muricea* as aposymbiotic.
- k. Cairns (2021) reported the synonymy of *Thouarella grasshoffi* to *T. hilgendorfi*.
- l. Deichmann (1936) identified that two specimens of *Acanthoptilum pourtalesii* Kölliker, 1870 were collected in the Florida Straits by Pourtales, but noted that she did not examine specimens of this species.

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