

ADDITIONAL FISHES INHABITING NORTH CAROLINA'S ESTUARINE AND MARINE OCEAN WATERS TO 2,000+ m DEPTHS

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Abstract: Improved sampling by otter trawls, ships that are capable of sampling deeper waters, submersible observations, visual observations and published studies reveal 244 additional fish species inhabit estuarine to 2,000+ m ocean water depths off North Carolina.

Key Words: fishes; estuarine; deep-water; Atlantic Ocean; North Carolina.

INTRODUCTION

Schwartz (1989) listed 685 species of fishes within 149 families occurring from estuaries to 600 m water depths of the Atlantic Ocean off North Carolina by faunal composition, physical provinces, depth distribution, habitat preference, type of fish and type of movement. Since then, because of improved sampling with otter trawls, ships that are capable of sampling deep waters, submersible observations, visual observations, and published regional papers, I now report 244 additional fish species within 92 fish families inhabiting the sounds to 2,000+ m depths off North Carolina (Table 1). I do not include species that have simply been reported having a north/south or worldwide distribution unless known captured specimens exist from State waters. The Literature Cited entries have been selected to include the most important references, although many other papers may mention a particular species found in this list. These are: McEachran and Feckhelm (1998, 2005); Munroe (1998); Clarke (2000); Collette and Klein - MacPhee (2002); Carpenter (2003a,b); Moore et al. (2003); Ross and Rhode (2003); Quattrini et al. (2004) and Ross et al. (2007). Papers dealing with new descriptions are: Nakabo and Hartel (1999); Sutton and Hartel (2004); McCosker and Ross (2007); Kenaley (2007) and Fernholm and Quattrini (2008). Revisionary works are: Caruso (1989); Smith (1989); Harold (1999) and Zahuranec (2000). Papers noting species new to the area are: Schwartz (1990, 1993a,b, 2003, 2011); Schwartz et al. (1995). Pine et al. (2005) reported the introduction of the flathead catfish, *Pyliodictus olivaris*, into coastal North Carolina rivers while Hare and Whitford (2003) documented the establishment of the invasive lionfish *Pterois volitans* in coastal and deep ocean waters off North Carolina. Nelson (2006) and Nelson et al. (2004) noted that several species name changes are necessary for some species in Schwartz (1989) and this new list. Captures of additional species off North Carolina awaits additional effort and more intensive area sampling.

Table 1. Fishes frequenting estuarine and marine Atlantic ocean waters of North Carolina to 2,000+ m depths, listed by family and species. Letters in the Literature Cited refer to published papers where a species is reported. Depth (in meters); S = primarily Surface; P = pelagic.

Family /Species	Reference
MYXINIDAE (Hagfishes)	
<i>Eptatretus lopheliae</i> Fernholm and Quattrini 2008 (430–442)	F
ODONTASPIDIDAE (Sand tigers)	
<i>Odontaspis ferox</i> (Risso, 1810) (13–655)	S4
SCYLIORHINIDAE (Cat sharks)	
<i>Galeus arae</i> (Nichols, 1927) (292–732)	S4
CARCHARINIDAE (Requiem sharks)	
<i>Carcharhinus galapagensis</i> (Snodgrass and Heller, 1905) (0–230)	S4
<i>Carcharhinus perezii</i> (Poey, 1876) (0–30)	S7
ECHINORHINIDAE (Bramble sharks)	
<i>Echinorhinus brucus</i> (Bonnaterre, 1788) (400–900)	S3
SQUALIDAE (Dogfish sharks)	
<i>Cirrhigaleus asper</i> (Merrett, 1973) (3–600)	S3
CENTROPHORIDAE (Gulper sharks)	
<i>Centrophorus niaukang</i> Teng, 1959 (1,000–1,350)	Cj
ETMOPTERIDAE (Lantern sharks)	
<i>Centroscyllium fabricii</i> (Rheinhardt, 1825) (180–1,600)	C
PSEUDOCARCHARIDAE (Crocidle sharks)	
<i>Pseudocarcharias kamoharai</i> (Matsubara, 1936) (1,000–1,370)	Cj
RAJIDAE (Skates)	
<i>Breviraja cloromaculatus</i> McEachran and Matheson, 1985 (0–620)	S4
<i>Dipturus teevani</i> (Bigelow and Schroeder, 1951) (306–1,900)	S4
<i>Neoraja carolinensis</i> McEachran and Stehmann, 1984 (695–1,010)	S4
<i>Rajella bigelowi</i> (Holt and Byrne, 1908) (50–456)	S4
HALOSAURIDAE (Halosaurs)	
<i>Aldrovandia phalacra</i> (Valliant, 1888) (500–2,500)	M

Table 1. Continued.

Family /Species	Reference
NOTACANTHIDAE (Spiny Eels)	
<i>Notacanthus chemnitzii</i> , Bloch, 1788 (128–3,285)	M
MORINGUIDAE (Spaghetti eels)	
<i>Moringua edwardsi</i> (Jordan and Bollman, 1889) (750–870)	R
<i>Neoconger mucronatus</i> Girard, 1858 (0–5)	R
CHLOPSIDAE (False Morays)	
<i>Chlopsis bicolor</i> (Rafinesque, 1810) (32–157)	R
MURAENIDAE (Moray eels)	
<i>Gymnothorax conspersus</i> Poey, 1867 (0–200)	K, R
<i>Gymnothorax hubbsi</i> Bohlke and Bohlke, 1977 (60–90)	K
<i>Gymnothorax kolpos</i> , Bohlke and Bohlke, 1980 (75–100)	K, MC
<i>Gymnothorax maderensis</i> (Johnson, 1862) (150–280)	M
<i>Gymnothorax miliaris</i> (Kaup, 1856) (0–113)	R
<i>Gymnothorax vicinus</i> (Castelnau, 1855) (0–113)	R
SYNAPHOBRANCHIDAE (Cutthroat eels)	
<i>Derichthys serpentinus</i> Gill, 1884 (1,463–1,829)	D
<i>Nessorhynchus ingolfianis</i> Schmidt, 1912 (119–2,000)	D
<i>Histrobranchus bathybius</i> Gunther, 1877 (731–4,700)	R
<i>Synaphobranchus affinis</i> Gunther, 1877 (500–1,500)	R
<i>Synaphobranchus brevidorsalis</i> Gunther, 1877 (515–1,200)	R
OPHICHTHIDAE (Snake eels)	
<i>Callechelys guineensis</i> (Osorio, 1893) (0–36)	R
<i>Callechelys muraena</i> Jordan and Evermann, 1887 (27–115)	R
<i>Echiophis punctifer</i> (Kaup, 1860) (0–100)	R
<i>Lepophidium stauraphor</i> Robins, 1958 (10–720)	Q
<i>Myrichthys breviceps</i> (Richardson, 1848) (105–223)	M, R
<i>Myrichthys ocellatus</i> (Lesueur, 1825) (0–7)	R, RO
<i>Myrichthys platyrhynchus</i> Breder, 1927 (0–10)	N
<i>Ophichthus brevirostris</i> McCosker and Ross, 2003 (370–440)	MCR, RO
<i>Ophichthus melanoporus</i> Kanazawa, 1963 (51–460)	R
<i>Ophichthus puncticeps</i> (Kaup, 1860) (20–200)	R, RO
NEMICHTHYIDAE (Snipe eels)	
<i>Labichthys carinatus</i> (Poey, 1867) (1,200–2,000)	M, R
CONGRIDAE (Shorttail eels)	
<i>Gnathopis bathytos</i> (Smith and Kanazawa, 1977) (90–366)	MC, R
<i>Gnathopis bracheatops</i> (Smith and Kanazawa, 1977) (55–1,102)	MC, R
<i>Pseudopichthys splendens</i> (Lea, 1913) (37–1,649)	MC
<i>Rhynchoconger flavus</i> (Goode and Bean, 1896) (26–183)	D
NETTASTOMATIDAE (Duckbill eels)	
<i>Hoplunnis diomediana</i> Goode and Bean, 1896 (39–103)	M
<i>Hoplunnis tenius</i> Ginsburg, 1951 (40–468)	M
<i>Nettenchelys exorius</i> Bohlke and Smith, 1981 (0–139)	R

Table 1. Continued.

Family /Species	Reference
<i>Saurenhelys congnita</i> Smith, 1989 (97–878)	R
<i>Venefica procera</i> Goode and Bean, 1883 (350–2,304)	M, R
ICTALURIDAE (North American catfishes)	
<i>Pyliodictus olivaris</i> (Rafinesque, 1818) (0–202)	P
ALEPOCEPHALIDAE (Slickheads)	
<i>Narcetus stomias</i> (Gilbert, 1890) (500–2,503)	C, M
SALMONIDAE (Salmonids)	
<i>Oncorhynchus mykiss</i> (Walbaum, 1792) (0–200)	S2
GONOSTOMATIDAE (Bristlemouths)	
<i>Gonostoma atlanticum</i> Norman, 1930 (300–600)	M
STERNOPTYCHIDAE (Marine hatchet fishes)	
<i>Maurolicus weitzmani</i> Parin and Kobylansky, 1993 (100–400)	C, MC
<i>Polyipnyus clarus</i> Harold, 1994 (300–417)	G, HA, MC
<i>Polyipnyus lateratus</i> Garman, 1899 (0–666)	HA
<i>Valenciennellus tripunctulatus</i> (Esmark, 1871) (351–550)	K, MC
<i>Vinciguerria nimbaria</i> (Jordan and Williams, 1895) (0–400)	C, G, M
PHOSICHTHYIDAE (Lightfishes)	
<i>Aristostomias grimaldi</i> Zugmayer, 1913 (25–800)	M
<i>Bathophilus altipinnis</i> Beebe, 1953 (402–1,464)	M
<i>Bathophilus brevis</i> Regan and Trewavas, 1930 (75–1,650)	M
<i>Chauliodus danae</i> Regan and Trewavas, 1929 (300–3,500)	M
<i>Chauliodus sloani</i> Bloch and Schneider, 1801 (1,000–1,800)	M
<i>Flagellostomias boureei</i> (Zugmayer, 1913) (75–1,825)	M
<i>Grammatostomias flagellibarba</i> Olton Byrne, 1910 (600–800)	M
<i>Pachystomias microdon</i> Kenaley, 2000 (0–250)	HT
<i>Pollichthys mauli</i> (Poll, 1953) (3–500)	R
<i>Vinciguerria attenata</i> (Cocco, 1838) (200–700)	MC
<i>Vinciguerria nimbaria</i> (Jordan and Williams, 1895) (0–150)	G, M
<i>Vinciguerria poweriae</i> (Cocco, 1838) (300–400)	M
STOMIIDAE (Barbled dragonfishes)	
<i>Bathophilus brevis</i> Regan and Trewavas, 1930 (75–1,650)	M
<i>Eustomias bigelowi</i> Welsh, 1923 (0–750)	CL
<i>Eustomias borealis</i> Clarke 2000 (0–750)	CL
<i>Eustomias contatius</i> Goman, 1985 (0–835)	HD
<i>Eustomias jimcragradocki</i> Sutton and Hartel 2004 (0–1,930)	HT, ST
<i>Eustomias macronema</i> Regan and Trewavas, 1930 (0–630)	CL
<i>Eustomias paucifilis</i> Parr, 1927 (0–250)	CL
<i>Eustomias satterlei</i> Beeb, 1933 (0–6000)	CL
<i>Melanostomias bartonbeani</i> Parr, 1927 (300+)	M
<i>Melanostomias melapogon</i> Reagan and Trewavas, 1930 (0–250)	MC
<i>Stomias affinis</i> , Gunther, 1887 (0–2,000)	M
CLOROPHTHALMIDAE (Greeneyes)	
<i>Parasudis truculenta</i> (Goode and Bean, 1896) (183–480)	M

Table 1. Continued.

Family /Species	Reference
PARALEPIIDAE (Barracudinas)	
<i>Arctozenis rissoi</i> (Bonaparte, 1840) (200–1,000)	C
<i>Lestidium atlanticum</i> Borodin, 1928 (0–1,200)	M
<i>Lestidium intermedia</i> (Poey, 1868) (0–1,600)	M
<i>Macroparalepus affinis</i> Ege, 1933 (400–1,000)	M
NESCOPELIDAE (Black chins)	
<i>Nescopelus macrolepidotus</i> Johnson, 1863 (300–800)	M
MYCTOPHIDAE (Lanternfishes)	
<i>Benthoema glaciale</i> (Reinhardt, 1837) (275–850)	M
<i>Diaphus brachycephalus</i> Taning, 1928 (0–225)	M
<i>Diaphus dumerili</i> (Bleeker, 1856) (225–750)	M
<i>Diaphus garmani</i> Gilbert, 1906 (325–650)	M
<i>Diaphus mollis</i> Taning, 1928 (325–650)	M
<i>Myctophum selenops</i> Taning, 1928 (40–225)	M
BREGMACERAOTIDAE (Codlets)	
<i>Bregmaceros cantori</i> (Cantor Millikens and Houde, 1984) (0–60)	M
MACROURIDAE (Grenadiers)	
<i>Caelorinchus caelorhinus</i> (Risso, 1810) (200–500)	M, K
<i>Caelorinchus caribbaeus</i> (Goode and Bean, 1886) (200–700)	K, M
<i>Coryphanaeoides armatus</i> (Hector, 1875) (2,000–4,700)	M
<i>Coryphanaeoides carapinus</i> Goode and Bean, 1883 (1,000–3,000)	M
<i>Coryphanaeoides rupestris</i> Gunnerus, 1765 (400–1,200)	M
<i>Gadomus dispar</i> Valliant, 1888 (550–1,105)	M
MORIDAE (Deepsea cods)	
<i>Gadella imberbis</i> (Valliant, 1888) (129–905)	K, M
<i>Laemonema barbatulum</i> (Goode and Bean, 1883) (50–1,620)	K, M
<i>Laemonema goodebeanorum</i> Melendez and Markle, 1998 (80–792)	K, M
<i>Laemonema melanurum</i> (Goode and Bean, 1896) (452–644)	M
<i>Physiculus kerrerae</i> (Paulin, 1989) (381–443)	K
MELANONIDAE (Atlantic cods)	
<i>Melanomus zugmayeri</i> Norman, 1930 (0–1,291)	K, M
PHYSIDAE (Rocklings)	
<i>Enchelyopus cimbrius</i> (Linnaeus, 1766) (1par; 20–900)	K, M
<i>Urophycis tenuis</i> (Mitchill, 1814) (0–1,000)	K, M
CARAPIDAE (Pearlfishes)	
<i>Carapus bermudensis</i> (James, 1874) (48–235)	K, MC
MERLUCIIDAE (Merlucoid hakes)	
<i>Steindachneria argentea</i> Goode and Boen, 1896 (400–500)	HT
OPHIIDAE (Cusk-eels)	
<i>Brotulotaenia brevicauda</i> Cohen, 1974 (0–2,650)	K
<i>Lepophidium brevibarbe</i> (Cuvier, 1829) (18–75)	K
<i>Neobythites marginatus</i> Goode and Bean, 1886 (329–549)	NE

Table 1. Continued.

Family /Species	Reference
<i>Ophidion robbinsi</i> Fahay 1992 (12–45)	F A
BYTHITIIDAE (Viviporous brotulids)	
<i>Diplacanthopoma brachysoma</i> Gunther, 1887 (439–752)	M
CHAUNACIDAE (Sea toads)	
<i>Bathychaunax roseus</i> (Barbour, 1941) (1,829–1,957)	CA, K
OGOCEPHALIDAE (Batfishes)	
<i>Ogocephalus cubifrons</i> (Richardson, 1836) (5–115)	K, S7
<i>Zalieutes mcgintyi</i> (Fowler, 1952) (3–170)	K, S7
ONEIRODIDAE (Dreamers)	
<i>Dolopichthys karstoni</i> Leipertz and Pietsch, 1987 (0–1,200)	M
MUGILLIDAE (Mulletts)	
<i>Agonostomus monticola</i> (Bancroft, 1834) (0–5)	C, K
EXOCETIDAE (Flying fishes)	
<i>Cypselurus comatus</i> (Mitchell, 1815) S	Q
<i>Exocoetus obtusirostris</i> Gunther, 1866 S	K
<i>Hirundichthys rondeletii</i> (Valenciennes, 1847) S	K
<i>Hirundichthys speculiger</i> , (Vaelenciennes, 1847) S	K
<i>Parexocoetus hillebrandi</i> (Gosse, 1851) S	F
<i>Prognichthys occidentalis</i> Parin, 1999 S	K
HEMIRAMPHIDAE (Halfbeaks)	
<i>Hyporhamphus meeki</i> Banford and Collette, 1993 (0–15)	K
<i>Oxyptorhamphus micropterus similis</i> Bruun, 1935 (0–10)	K
STEPHANOBERYCIDAE (Pricklefishes)	
<i>Acanthoakaenus lutenii</i> Gill, 1884 (1,655–8,400)	S1
ANOPLOGASTRIDAE (Fangtooths)	
<i>Anoplogaster cornuta</i> (Vaelenciennes, 1833) (640–1,900)	B
HOLOCENTRIDAE (Squirrelfishes)	
<i>Ostichthys trachypoma</i> (Gunther, 1859) (200–400)	C
TRACHICHTHYIDAE (Roughies)	
<i>Geophyroberyx darwinii</i> (Johnson, 1866) (9–1,210)	K
<i>Hoplostethus mediterraneus</i> Cuvier, 1929 (180–1,466)	K
SYNGNATHIDAE (Pipefishes)	
<i>Anarchopterus criniger</i> (Bean and Dresel, 1884) (0–11)	K
<i>Cosmocampus hildebrandi</i> (Herald, 1965) (4–73)	C, M
<i>Syngnathus reedi</i> Ginsburg, 1933 (0–55)	K
SCORPAENIDAE (Scorpionfishes)	
<i>Pterios volitans</i> (Linnaeus, 1758) (80–260)	H
TRIGLIDAE (Searobins)	
<i>Prionotus alatus</i> Goode and Bean, 1883 (55–457)	C, M
PERISTIIDAE (Armored searobins)	
<i>Peristedion ecuadorensis</i> Teague, 1961 (324–910)	MC, RI
<i>Peristedion greyae</i> Miller, 1967 (183–833)	MI
<i>Peristedion miniatum</i> (Goode, 1880) (64–910)	MC
<i>Peristedion thompsoni</i> Fowler, 1952 (115–475)	K, MC

Table 1. Continued.

Family /Species	Reference
<i>Peristedion truncatum</i> (Gunther, 1880) (440–670)	MC
LIPARIDAE (Cyclopteridae) (Snailfishes)	
<i>Paraliparis copei</i> Goode and Bean, 1896 (260–1,008)	M
<i>Paraliparis garmani</i> (Burke, 1912) (550–1,000)	M
<i>Paraliparis hystrix</i> Merritt, 1893 (82–1,008)	HT
ACROPOMATIDAE (Lantern bellies)	
<i>Synacrops bellus</i> (Goode and Bean, 1896) (60–90)	M
<i>Synacrops spinosus</i> Schultz, 1940 (100–400)	M
SYMPHYSANODONTIDAE (Slopefishes)	
<i>Epegonus</i> sp. Anderson and Springer, 2005 (220–476)	HT
POLYPRIONIDAE (Threadfins)	
<i>Polyprion americanus</i> (Bloch and Schneider, 1801) (448–740)	C
POMACENTRIDAE (Damsel fishes)	
<i>Stegastes diaenaeus</i> (Jordan and Rutter, 1897) (16–150)	S5
SERRANIDAE (Sea basses)	
<i>Anthias tenuis</i> Nichols, 1920 (55–915)	MC
<i>Anthias woodsi</i> Anderson and Haemstra, 1980 (55–915)	NE
<i>Cephanopholis cruentatus</i> (Lacepede, 1802) (21–50)	MC
<i>Cephalopholis fulva</i> (Linnaeus, 1758) (0–40)	MC
<i>Dermatolepis inermis</i> (Vaelenciennes, 1833) (21–250)	MC
<i>Epinephelus itajara</i> (Lichtenstein, 1882) (0–30)	MC
<i>Epinephelus mystacinus</i> (Poey, 1852) (30–500)	MC
<i>Gonioplectrus hispanus</i> (Cuvier, 1828) (66–365)	MC
<i>Hemanthias aureorubens</i> (Longley, 1935) (120–610)	MC
<i>Hemanthias leptus</i> (Ginsburg, 1952) (35–640)	MC
<i>Liopropoma eukrines</i> (Stark and Courtney, 1962) (89–91)	K
<i>Liopropoma mowbrayi</i> Woods and Kanazawa, 1951 (30–100)	Q
<i>Plectranthias garrupellus</i> Robins and Stark, 1961 (10–375)	K
<i>Prognathus aculeatus</i> (Poey, 1868) (0–91)	Q
<i>Prontogrammus martinicensis</i> (Guichenet, 1868) (55–230)	K
<i>Rypticus maculatus</i> Holbrook, 1855 (0–140)	K
<i>Rypticus saponaceus</i> (Bloch and Schneider, 1801) (0–140)	Q
<i>Serranus annularis</i> (Gunther, 1880) (930–68)	MC
OPISTOGNATHIDAE (jawfishes)	
<i>Opistognathus melachasma</i> Smith - Vaniz, 1972 (146–205)	MC
<i>Opistognathus nothus</i> Smith - Vaniz, 1997 (92–100)	K
PRIACANTHIDAE (Bigeyes)	
<i>Cookeolus japonicus</i> (Cuvier, 1929) (60–400)	B, N
APOGONIDAE (Cardinalfishes)	
<i>Apogon gouldi</i> Smith-Vaniz, 1977 (151–262)	Q

Table 1. Continued.

Family /Species	Reference
<i>Apogon maculatus</i> (Poey, 1860) (0–100)	K
<i>Astropogon alutus</i> (Jordan and Gilbert, 1882) (0–100)	K
CARANGIDAE (Jacks)	
<i>Caranx dentex</i> (Bloch and Schneider, 1801) (20–50)	K
<i>Caranx lugubris</i> Poey, 1860 (24–65)	K
BRAMIDAE (Pomfrets)	
<i>Brama caribea</i> Mead, 1972 (0–50)	MC
<i>Brama dussumieri</i> Cuvier, 1831 (0–100)	MC
LUTJANIDAE (Snappers)	
<i>Lutjanus campechanus</i> (Poey, 1860) (10–90)	K
<i>Pristipomoides aquilonaris</i> (Goode and Bean, 1896) (24–488)	K
GERRIDAE (Mojarras)	
<i>Eucinostomus argenteus</i> Baird and Girard, 1855 (0–100)	MC
<i>Eucinostomus harengulus</i> (Goode and Bean, 1879) (0–20)	K
<i>Eugerres plumieri</i> (Cuvier, 1830) (0–25)	K
HAEMULIDAE (Grunts)	
<i>Haemulon melanurum</i> (Linnaeus, 1758) (0–402)	MC
INERMIDAE (Bonnetmouths)	
<i>Inermia vittata</i> Poey, 1860 (0–91)	MC
SPARIDAE (Porgies)	
<i>Archosargus rhomboidalis</i> (Linnaeus, 1758) (0–25)	K
<i>Calamus leucosteus</i> Jordan and Gilbert, 1885 (0–100)	K
POLYNEMIDAE (Threadfins)	
<i>Polydactylus octonemus</i> (Girard, 1858) (2–736)	K
<i>Polydactylus virginicus</i> (Linnaeus, 1758) (0–55)	K
CHAETODONTIDAE (Butterflyfishes)	
<i>Centropyge argi</i> Woods and Kanazawa, 1951 (287–370)	Q, K
<i>Prognathodes aya</i> (Jordan, 1886) (20–200)	Q
LABRIDAE (Wrasses)	
<i>Halichoeres bathyphilus</i> (Beebe and Tee-Van, 1932) (27–105)	
<i>Halichoeres caudalis</i> (Poey, 1860) (18–73)	K
<i>Halichoeres cyanocephalus</i> (Bloch, 1791) (27–91)	K
<i>Halichoeres maculipinna</i> (Muller and Troschel, 1848) (0–25)	K
<i>Halichoeres radiatus</i> (Linnaeus, 1758) (0–46)	M
ZOARCIDAE (Eelpouts)	
<i>Lycenchelys paxsillus</i> (Goode and Bean, 1879) (375–1,500+)	M
<i>Lycodon atlanticum</i> (Moeller, 2000) (828–3,321)	M
<i>Melanostigma atlanticum</i> Koefoed, 1952 (275–2,000)	M
CHAENOPSIDAE (Tube blennies)	
<i>Chaenopsis roseola</i> Hastings and Shipp, 1981 (33–64)	MC

Table 1. Continued.

Family /Species	Reference
<i>Emblemaria piratica</i> Ginsburg, 1942 (34–64)	MC
CALLIONYEMIDAE (Dragonets)	
<i>Diplogrammus pauciradiatus</i> (Gill, 1865) (0–25)	MC
<i>Foetrepus agassii</i> (Goode and Bean, 1888) (98–650)	MC
<i>Foetrepus goodenbeani</i> Nakabo and Hartel 1999 (180–243)	NA
ELEOTRIDAE (Sleepers)	
<i>Eleotris amblyopsis</i> (Cope, 1871) (0–25)	K
GOBIIDAE (Gobies)	
<i>Ctenogobius schufeldti</i> (Jordan and Eigenmann, 1887) (0–15)	K
<i>Ctenogobius smaragdus</i> (Valenciennes, 1837) (0–10)	K
<i>Gobionellus oceanicus</i> (Pallas, 1770) (0–10)	MC
<i>Microgobius carri</i> Fowler, 1945 (6–21)	MC
ACANTHURIDAE (Surgeonfishes)	
<i>Acanthurus bahianus</i> Castelnau, 1855 (0–55)	
<i>Acanthurus chirurgus</i> (Bloch, 1787) (0–20)	K
<i>Acanthurus coeruleus</i> (Bloch and Schneider, 1801) (0–10)	K
SCOMBRIDAE (Mackerels and Tunas)	
<i>Auxis thazard</i> (Lacepede, 1880) P	MC, K
<i>Katsuwonus pelamis</i> (Linnaeus, 1758) P	MC, K
<i>Scomber colias</i> Gmelin, 1789 (0–300) P	MC, K
GEMPYLIDAE (Snake mackerels)	
<i>Nesiaichus nasutus</i> Johnson, 1862 (200–1, 200)	MC
TRICHIURIDAE (Cutlassfishes)	
<i>Benthodesmus tenuis</i> (Gunther, 1877) (210–850)	K
<i>Evoxymetopon taeniatus</i> Poey, 1863 (140–350)	N
CENTROLOPHIDAE (Medusa fishes)	
<i>Schedchophilus medusophagus</i> (Cocco, 1829) (0–450)	M
ARIOMMATIDAE (Ariomatids)	
<i>Ariomma bondi</i> Fowler, 1930 (40–450)	K
<i>Ariomma melanum</i> (Ginsburg, 1854) (140–750)	K
STROMATEIDAE (Butterfishes)	
<i>Peprilus paru</i> (Linnaeus, 1758) (50–70)	K
<i>Peprilus triacanthus</i> (Peck, 1804) (50–250)	K
CAPROIDAE (Boarfishes)	
<i>Antigonia capros</i> Lowe, 1843 (40–60)	C
PARALICHTHYIDAE (Sand flounders)	
<i>Ancyclopsetta dilecta</i> (Goode and Bean, 1883) (50–370)	K
<i>Etropus cyclosquamus</i> Leslie and Stewart, 1986 (10–30)	MC
<i>Paralichthys oblongus</i> (Mitchill, 1815) (0–275)	K, MC
PLEURNONECTIDAE (Right-eye flounders)	
<i>Poecilopsetta beanie</i> (Goode, 1881) (155–1,636)	M
<i>Rhinhardtius hippoglossoides</i> (Walbaum, 1792) (6–65)	M
BOTHIDAE (Left-eyed flounders)	

Table 1. Continued.

Family /Species	Reference
<i>Chascopsetta danae</i> Bruun, 1951 (160–460)	K
<i>Engyrophyops senta</i> Ginsburg, 1933 (30–185)	MC
ACHIRIDAE (American soles)	
<i>Achirus lineatus</i> (Linnaeus, 1758) (0–15)	K
<i>Gymnachirus melas</i> Nichols, 1801 (2–185)	K
<i>Trinectes maculatus</i> (Bloch and Schneider, 1901) (0–75)	K
CYNOGLOSSIDAE (Tonguefishes)	
<i>Symphurus billykrietei</i> Munroe, 1998 (20–380)	MU
<i>Symphurus marginatus</i> (Goode and Bean, 1886) (37–832)	MU
<i>Symphurus minor</i> Ginsburg, 1951 (78–150)	MU
<i>Symphurus nebulosus</i> (Goode and Bean, 1883) (239–810)	MU
<i>Symphurus urospilus</i> Ginsburg, 1951 (5–40)	MU
MONOCANTHIDAE (Filefishes)	
<i>Monacanthus ciliatus</i> (Mitchill, 1818) (0–50)	K
TETRADONTIDAE (Puffers)	
<i>Canthigaster jamestyeri</i> Moura and Castro, 2002 (38–98)	Q
DIODONTIDAE (Porcupine fishes)	
<i>Diodon eydouxii</i> Brissout de Barneville, 1846 (100+)	NE

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Addendum: A 9.8 kg (21.75lb.) Blackfin tuna, *Thunnus atlanticus*, Lesson (1831), was caught fishing off the Bogue Inlet pier, 21 April 2012, in water 4 m deep, Emerald Isle, North Carolina, Carteret county.

Schwartz 2012 reported two *Bathyrja richardsoni* caught off North Carolina in 2,000–2,427 m waters. J. No. Car. Acad. Sci. 128(1):21–22.