



# Check list of fishes of the Gulf of Mannar ecosystem, Tamil Nadu, India

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## Abstract

Gulf of Mannar Ecosystem (GOME) covers an area spread over Rameswaram and Kanyakumari for about 19000 km<sup>2</sup> and lies between 78°11'E and 79°15' E longitude and 8°49'N and 9°15'N latitude. The 21 coral islands form a network of habitats for different kinds of fishes and marine organisms. Fish samples were collected during April 2005 to March 2010 from different centers viz., Vembar, Tharuvaikulam, Vellapatti, Therespuram, Tuticorin, Alangarathattu, Pazhaykayal, Punnakayal, Kayalpattinam, Veerapandiapattinam, Thiruchendur and Manappad of Gulf of Mannar ecosystem. The present check list was the first attempt to produce a systematic list of fishes found in the Gulf of Mannar ecosystem. It includes 476 genera and 1182 species in 144 families and 39 orders, of which 628 species have been recorded in the present study.

**Key words:** *Marine fishes, marine protected area, coral islands, elasmobranchs, teleosts, deep sea fishes.*

## Introduction

India is blessed with a vast region of coral reefs and mangroves and these regions support very rich fauna of flora and constitute rich biodiversity of marine organisms. Gulf of Mannar Ecosystem (GOME) covers an area spread over Rameswaram and Kanyakumari to about 19,000 km<sup>2</sup>. GOME lies between 78°11'00" E and 79°15'00" E longitude and 8°49'00" N and 9°15'00" N latitude. The GOME has within its limits the Gulf of Mannar Biosphere Reserve (GOMBR) which was declared in 1989 as a protected area with an area of 10,500 km<sup>2</sup> and a Gulf of Mannar National Park (GOMNP). The GOMNP included 21 Islands and surrounding coral reefs with an area of 560 km<sup>2</sup>.

Fisheries is one of the most important renewable resources and provide livelihood for thousands of fishermen families residing in and around the coastal villages of the GOMBR. With increasing fishing pressure and conservation of the resources, the only option left for the sustainability of fisheries is their rational management. Proper management and conservation is possible with a thorough knowledge of the exact species identification and systematic list of the fish stocks present in the GOME.

GOME is known for its pearl oyster fisheries and chank fisheries since 1900 (Hornell, 1922). During 1975-1985 surveys conducted in the pearl oyster beds (Paars) revealed the decline in the population of pearl oyster. Several reasons were attributed to the decline of pearl oyster fishery in GOME such as shifting of sand by bottom currents caused by the southwest monsoon, natural enemies like fishes of Balistidae, *Lethrinus*, *Serranus*, *Tetrodon*, *Rhinoptera javanica* and other groups like boring molluscs, sponges, starfishes and crabs. Besides the over fishing, and imbalance in male and female ratios in the growth of the population in the pearl oyster beds also causes for the decline of the resources (Herdman, 1903; Hornell, 1916; Devanesan and Chidambaram, 1956; Mahadevan and Nayar, 1973). The shift from pearl oyster fisheries to fin fish resources was gradual and got momentum when the mechanization and motorization of crafts and gears occurred during the five year plan period of India. Diversity of fin fishes of GOM areas is high and inventorying of the resources is important in the context of biodiversity conservation and sustainable utilization of the resources.

The 21 coral islands starting from north most Pamban Island to Kanayakumari forms a network of habitats for different kinds of fishes both resident and migratory. Hare Island is the

biggest island and is about seven km from Mandapam Camp having an area of 160 hectares and the smallest islands are Manoliputti Island, Pulivinchalli Island and Valimunai Island. Three rivers falling into GOM are Vembar, Thamaraparniyar and Vaipar forming estuaries in the GOM area. Important types of ecosystem are seagrass, seaweed, coral reefs and other habitats like rocky shore, sandy beach, muddy beach and mudflats. Due to the peculiarities of ecosystem and protective nature of the habitats several species of fishes undertake breeding migration to GOM area. Different species include pelagic, benthic, benthopelagic, deep sea, estuarine, brackish water, migratory and cave dwelling forms.

First report of the finfish species from GOM was during 1964 and contains a list of 265 fishes and the first attempt to bring out a checklist of fishes of GOM resulted in cataloging of about 300 species of fishes from GOM (Murty, 1969). In the past several attempts by different workers to study the fin fishes of GOME resulted in either listing of a group of fishes or fishes from a particular area or report of new records of a single species from this area (James, 1967; Thomas, 1969; Venkataramani & Ramaiyan, 1977; Williams & Venkataramani, 1978; James, 1985; Venkataramani *et al.*, 1995; Varghese, 2011; Varghese *et al.*, 2011; Zacharia *et al.*,

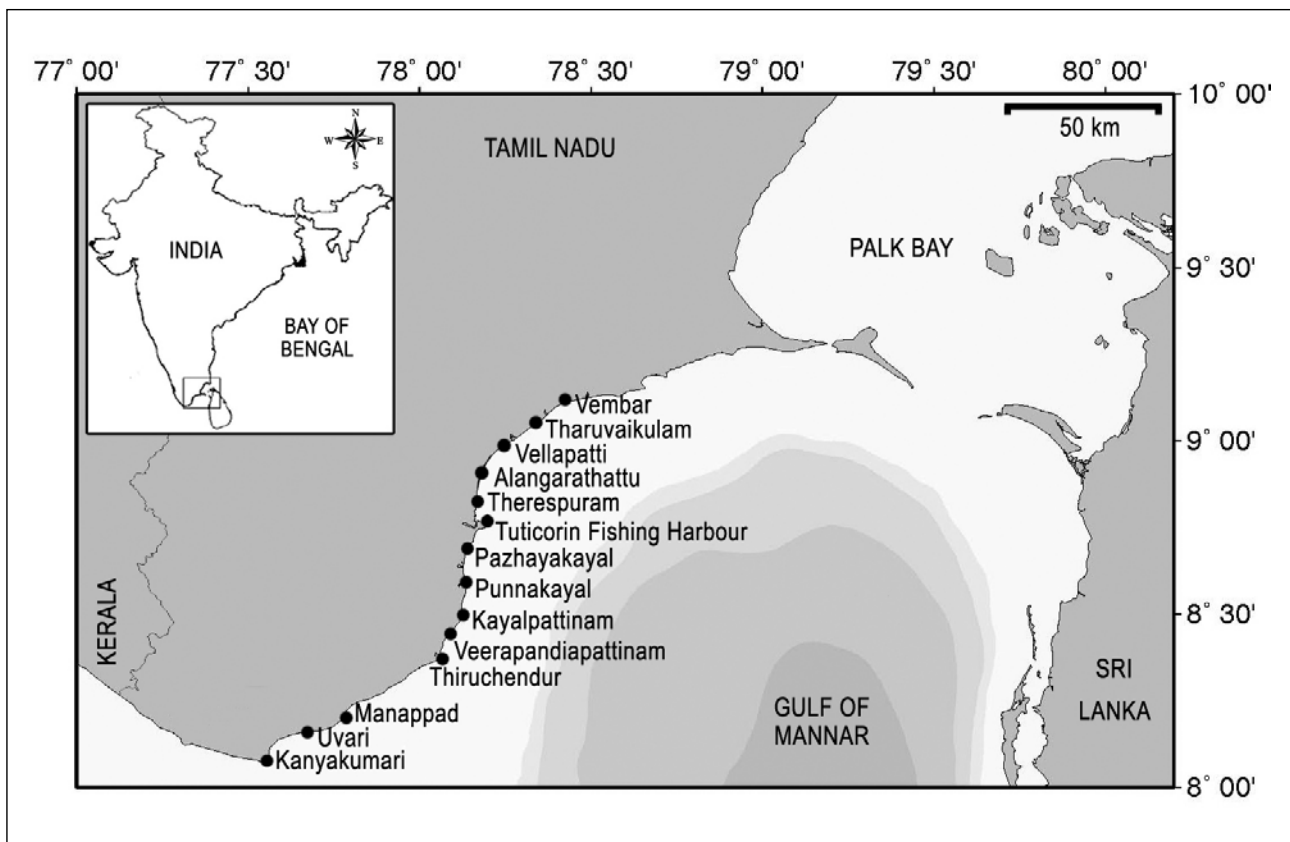


Fig. 1. Map showing study area of the Gulf of Mannar Ecosystem, India

2011; Joshi *et al.*, 2012b, Abraham *et al.*, 2011; Manisseri *et al.*, 2012; Zacharia and Kannan, 2012). Although these works added to the fish diversity of the GOM, a totality of species inventory is lacking and is causing problems for the conservation and management of this very important Marine Biosphere Reserve of the first of this kind in Tamil Nadu, India. In order to gather all the information, we have utilized all the taxonomical publications, reports, checked Eschmeyer (1998) and searched Catalog of Fishes (Eshmeyer and Fricke, 2015), Fishbase (Froese and Pauly, 2015) and other sites. The present check list was the first attempt to produce a systematic list of all the 1,182 species of fishes found in the Gulf of Mannar Ecosystem and adjacent areas of the Bay of Bengal. The ability to address the biodiversity utilization and conservation largely depends on the knowledge of the taxonomy of the flora and fauna constituting the biodiversity.

## Material and methods

### Sample collection

Fish samples were collected during April 2005 to March 2010. Sampling was conducted two to three consecutive days in a week from different centres like Vembar, Tharuvaikulam, Vellapatti, Therespuram, Tuticorin Harbour, Alangarathattu, Pazhaykayal, Punnakayal, Kayalpattinam, Veerapandiapattinam, Thiruchendur and Manappad of Gulf of Mannar Ecosystem (Fig. 1). Different types of gears were used for catching fish species from the GOME. Large meshed gillnets were used for catching species like tuna, seer fish, barracuda, and wolf herring. Small meshed gillnets were used for catching other types of species like sardine, mackerel, small carangids and miscellaneous species. Trawl nets were used for the exclusive fishery of different types and sizes of species from GOME. Gillnets of different names such as Nanduvalai, Chalavalai, Mayavalai, and Trammel net were also used to collect different varieties of marine organisms. Specialized trawl net "Thallumadi" was employed for catching fishes associated with seagrass beds and coral reef area where conventional trawl nets cannot operate smoothly. Shore seine of two types such as bigger nets (Karavalai) and smaller nets (Olavalai) were used in the near shore area to collect different species. Long lines were used to collect large pelagics from deeper areas. Hook and lines were used for catching species from the rocky shore areas and deeper waters. Besides, cast nets and traps were also used in certain places to collect fish samples. A total of 1,182 species of fishes was collected in the present study.

### Species Identification

Identification of species was confirmed using standard Monographs and Fish Identification books (FAO Fish Identification sheets, Species Catalogue, Smith's Sea fishes).

In some cases photographs were sent to world authorities and the identification was confirmed. The classification as described by Nelson (2006) was followed. Nomenclature and taxonomical details were taken from the Catalog of Fishes (Eschmeyer, 1998). The present checklist contains a total of 1,182 species of fishes occurring in the GOM. The distributional details of some of the species which were not recorded in the present study was taken from the past studies (Day, 1878; Munro, 1955; Carpenter and Niem, 1998).

Species identification and systematic position of the fishes was done primarily using monographs and identification manuals (Cuvier and Valenciennes, 1828; Gunther, 1859-1970; Day, 1878; Day, 1888; Hamilton, 1822; Weber and deBeaufort, 1913-1940; Munro, 1955; Fischer and Whitehead, 1974; Jones and Kumaran, 1980; Talwar and Kacker, 1984; Smith and Heemstra, 1986; Talwar and Jhingran, 1991; Allen *et al.*, 1997; Carpenter and Niem, 1998; Eschmeyer, 1998). The taxonomic reviews and recent publications of Chen *et al.* (1994: Anguilliformes); Roberts and Vidthayanon (1991: Siluriformes); Becker (1968: Myctophids); Kawaguchi and Shimizu (1978: Myctophidae); Kotlyar (1987; 1996: Bercyformes); Cressey (1981: Synodontidae); Randall and Greenfield (1996: Holocentridae); Markle and Olney (1990: Carapidae); Heemstra (1980: Zeidae); Dawson (1985: Pipe fishes); Lourie *et al.* (1999: Sea horses); Imamura (1996: Platycephalidae); Knapp (1996: Platycephalidae); Anderson (1970: Lutjanidae); Heemstra and Randall (1993: Serranidae); Katayama (1960; Serranidae); Randall and Baldwin (1997: Serranidae); Randall and Heemstra (1991: Serranidae); Randall and McCosker (1992: Serranidae); Gon (1993: Apogonidae); Randall *et al.* (1985: Apogonidae); McKay (1992: Sillaginidae); Dooley (1978: Branchiostegidae and Malacanthidae); Randall *et al.* (1987: Pinjalo); Allen (1985: Lutjanidae); Carpenter (1987; 1988: Caesionidae); Carpenter and Allen (1989: Lethrinidae); Russell (1990: Nemipteridae); Trewavas (1977: Sciaenidae); Lal Mohan (1981: Sciaenidae); Thomas (1969: Goat fishes); James (1985: Silverbellies); Abraham *et al.* (2011: Silverbellies); James (1967: Ribbon fishes); Allen (1979: Butterfly and Angelfishes); Vari (1978: Teraponidae); Senon (1988: Mugilidae); Thomson (1997: Mugilidae); Allen (1991: Damsel fishes); Randall (1982: Hologymnosus); Bellwood (1994: Scaridae); Choat and Randall (1986: Scaridae); Starnes (1988: Priacanthidae); Springer (1971: Blennidae); Springer and William (1994: Blennidae); Hoese and Larson (1994: Valenciennes); Murdy and Hoeses (1985: Gobiidae); Murdy (1989: Gobiidae); Kishimoto *et al.* (1988: Platax); Woodland (1990: Siganidae); Lin and Shao (1987: Sphyraenidae); Nakamura and Parin (1993: Snake Mackerel); Collette and Nauen (1983: Scombridae); Menon (1977: Cynoglossidae); Munroe and Marsh (1997: Symphurus); Leis (1978: Diodontidae); Sparks and Chakrabarty, 2007); Chakrabarty and Sparks (2007; 2008: Silverbellies);

Table 1. List of fish species occurring in the Gulf of Mannar Ecosystem, Tamil Nadu, India.

Group	Name
<b>Class</b>	<b>ELASMOBRANCHII</b>
Sub-class	HOLOCEPHALI
Order	CHIMAERIFORMES
<b>Family</b>	<b>Chimaeridae (shortnose chimeras or rattfishes)</b>
1	<i>Hydrolagus africanus</i> (Gilchrist, 1922)
<b>Family</b>	<b>Rhinochimaeridae (longnose chimeras)</b>
2	<i>Neoharriotta pinnata</i> (Schnakenbeck, 1931)
3	<i>Rhinochimaera pacifica</i> (Mitsukuri, 1895)
Sub-class	ELASMOBRANCHII
Sub-division	SELACHII
Order	HEXANCHIFORMES
<b>Family</b>	<b>Hexanchidae (cow sharks)</b>
4	<i>Hexanchus griseus</i> (Bonnaterre, 1788)
Order	HETERODONTIFORMES
<b>Family</b>	<b>Heterodontidae (horned sharks)</b>
5	<i>Heterodontus zebra</i> (Gray, 1831)
Order	ORECTOLOBIFORMES
<b>Family</b>	<b>Parascyllidae (collard carpet sharks)</b>
6	<i>Cirrhoscyllium exopolitum</i> Smith & Radcliffe, 1913
<b>Family</b>	<b>Hemiscylliidae (bamboo sharks)</b>
7	<i>Chiloscyllium indicum</i> (Gmelin, 1789)
8	<i>Chiloscyllium griseum</i> Muller & Henle, 1838
<b>Family</b>	<b>Stegostomatidae (zebra sharks)</b>
9	<i>Stegostoma fasciatum</i> (Hermann, 1783)
<b>Family</b>	<b>Ginglymostomatidae (nurse sharks)</b>
10	<i>Nebrius ferrugineus</i> (Lesson, 1831)
<b>Family</b>	<b>Rhincodontidae (whale sharks)</b>
11	<i>Rhincodon typus</i> Smith, 1828
Order	LAMNIFORMES
<b>Family</b>	<b>Alopiidae (thresher sharks)</b>
12	<i>Alopias pelagicus</i> Nakamura, 1935
13	<i>Alopias superciliosus</i> Lowe, 1841
14	<i>Alopius vulpinus</i> (Bonnaterre, 1788)
<b>Family</b>	<b>Lamnidae (mackerel sharks)</b>
15	<i>Lamna nasus</i> (Springer, 1973)
16	<i>Carcharodon carcharias</i> (Linnaeus, 1758)
<b>Family</b>	<b>Pseudocarcharinidae (crocodile sharks)</b>
17	<i>Pseudocarcharias kamoharai</i> (Matsubara, 1936)
18	<i>Isurus oxyrinchus</i> Rafinesque, 1850
Order	CARCHARHINIFORMES
<b>Family</b>	<b>Carcharhinidae (gray sharks)</b>
19	<i>Carcharhinus altimus</i> (Springer, 1950)
20	<i>Carcharhinus amboinensis</i> (Muller & Henle, 1839)
21	<i>Carcharhinus amblyrhynchoides</i> (Whitely, 1934)
22	<i>Carcharhinus amblyrhynchus</i> (Bleeker, 1856)
23	<i>Carcharhinus brevipinna</i> (Muller & Henle, 1841)
24	<i>Carcharhinus dussumieri</i> (Muller & Henle, 1841)

25	<i>Carcharhinus falciformis</i> (Muller & Henle, 1841)
26	<i>Carcharhinus hemiodon</i> (Muller & Henle, 1839)
27	<i>Carcharhinus leucas</i> (Valenciennes, 1839)
28	<i>Carcharhinus limbatus</i> (Muller & Henle, 1839)
29	<i>Carcharhinus longimanus</i> (Poey, 1861)
30	<i>Carcharhinus macloti</i> (Muller & Henle, 1839)
31	<i>Carcharhinus melanopterus</i> (Quoy & Gaimard, 1824)
32	<i>Carcharhinus obscurus</i> (Lesueur, 1818)
33	<i>Carcharhinus plumbeus</i> (Nardo, 1827)
34	<i>Carcharhinus sealei</i> (Pietschmann, 1916)
35	<i>Carcharhinus sorrah</i> (Muller & Henle, 1839)
36	<i>Galeocerdo cuvieri</i> (Lesuer, 1818)
37	<i>Lamiopsis temmincki</i> (Muller & Henle, 1839)
38	<i>Loxodon macrorhynchus</i> (Muller & Henle, 1839)
39	<i>Negaprion acutidens</i> (Rüppell, 1837)
40	<i>Prionace glauca</i> (Linnaeus, 1758)
41	<i>Rhizoprionodon acutus</i> (Rüppell, 1837)
42	<i>Rhizoprionodon oligolinx</i> Springer, 1964
43	<i>Scoliodon laticaudus</i> (Muller & Henle, 1839)
44	<i>Triaenodon obesus</i> (Rüppell, 1837)
<b>Family</b>	<b>Sphyrnidae (hammerheaded shark)</b>
45	<i>Eusphyrna blochii</i> (Cuvier, 1816)
46	<i>Sphyrna lewini</i> (Griffith & Smith, 1834)
47	<i>Sphyrna mokarran</i> (Rüppell, 1837)
48	<i>Sphyrna zygaena</i> (Linnaeus, 1758)
Order	ECHINORHINIFORMES
<b>Family</b>	<b>Echinorhinidae (bramble shark)</b>
49	<i>Echinorhinus brucus</i> (Bonnaterre, 1788)
Order	SQUALIFORMES
<b>Family</b>	<b>Squalidae (dogfishes)</b>
50	<i>Squalus acanthias</i> Linnaeus, 1758
51	<i>Squalus blainville</i> (Risso, 1827)
<b>Family</b>	<b>Centrophoridae (gulper sharks)</b>
52	<i>Centrophorus granulosus</i> (Bloch & Schneider, 1801)
53	<i>Centrophorus uyato</i> (Rafinesque, 1810)
54	<i>Centrophorus moluccensis</i> (Bleeker, 1860)
Sub-division	BATOIDEA
Order	PRISTIFORMES
<b>Family</b>	<b>Pristidae (swordfishes)</b>
55	<i>Anoxypristis cuspidata</i> (Latham, 1794)
56	<i>Pristis microdon</i> Latham, 1794
57	<i>Pristis pectinata</i> Latham, 1794
58	<i>Pristis zijsron</i> Bleeker, 1851
Order	TORPEDINIFORMES
<b>Family</b>	<b>Torpedinidae (electric rays)</b>
59	<i>Narcine brunnea</i> Annandale, 1909
60	<i>Narcine indica</i> Henle, 1834
61	<i>Narcine timplei</i> (Bloch & Schneider, 1801)
62	<i>Narke dipterygia</i> (Bloch & Schneider, 1801)
63	<i>Torpedo marmorata</i> (Risso, 1810)

Order	RAJIFORMES
<b>Family</b>	<b>Rhinobatidae (guitarfishes)</b>
64	<i>Rhinobatos granulatus</i> (Cuvier, 1829)
65	<i>Rhinobatos variegatus</i> Nair & Lal Mohan, 1973
66	<i>Rhinobatos annandalei</i> (Norman, 1926)
67	<i>Rhinobatos obtusus</i> (Muller & Henle, 1841)
68	<i>Rhina ancylostoma</i> Bloch & Schneider, 1801
69	<i>Rhincobatus djiddensis</i> (Forsskål, 1775)
<b>Family</b>	<b>Dasyatidae (sting rays)</b>
70	<i>Dasyatis kuhli</i> (Muller & Henle, 1841)
71	<i>Dasyatis microps</i> (Annandale, 1908)
72	<i>Dasyatis sephen</i> (Forsskål, 1775)
73	<i>Dasyatis zugei</i> (Burger, 1841)
74	<i>Himantura imbricata</i> (Bloch & Schneider, 1801)
75	<i>Himantura bleekeri</i> (Blyth, 1860)
76	<i>Himantura gerrardi</i> (Grey, 1851)
77	<i>Himantura jenkinsii</i> (Annandale, 1909)
78	<i>Himantura marginata</i> (Blyth, 1860)
79	<i>Himantura uarnak</i> (Gmelin, 1789)
80	<i>Himantura walga</i> (Muller & Henle, 1841)
81	<i>Himantura undulata</i> (Bleeker, 1852)
82	<i>Pteroplatytrygon violacea</i> (Bonaparte, 1832)
83	<i>Taeniura lymma</i> (Forsskål, 1775)
84	<i>Taeniura meyeri</i> Muller & Henle, 1841
85	<i>Urogymnus granulatus</i> (Macleay, 1883)
86	<i>Urogymnus asperrimus</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Gymnuridae (butterfly rays)</b>
87	<i>Gymnura japonica</i> (Temminck & Schlegel, 1850)
88	<i>Gymnura poecilura</i> (Shaw, 1804)
89	<i>Gymnura micrura</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Myliobatidae (angle, devil, cownose rays)</b>
90	<i>Aetobatus flagellum</i> (Bloch & Schneider, 1801)
91	<i>Aetobatus narinari</i> (Euphrasen, 1790)
92	<i>Aetomylaeus nichofii</i> (Bloch & Schneider, 1801)
93	<i>Manta birostris</i> (Walbaum, 1792)
94	<i>Mobula diabolus</i> (Shaw, 1804)
95	<i>Mobula mobular</i> (Bonnaterre, 1788)
96	<i>Mobula thurstoni</i> (Lloyd, 1908)
97	<i>Myliobatus maculatus</i> Gray, 1834
98	<i>Rhinoptera jayakari</i> Boulenger, 1895
99	<i>Rhinoptera javanica</i> (Muller & Henle, 1841)
<b>Class</b>	<b>ACTINOPTERYGII (OSTEICHTHYES)</b>
Sub-class	NEOPTERYGII
<b>Division</b>	<b>TELEOSTEI</b>
Order	ELOPIFORMES
<b>Family</b>	<b>Elopidae (ten pounders)</b>
100	<i>Elops saurus</i> Linnaeus, 1766
101	<i>Elops machnata</i> (Forsskål, 1775)
<b>Family</b>	<b>Megalopidae (tarpons)</b>
102	<i>Megalops cyprinoides</i> (Broussonet, 1782)

Order	ALBULIFORMES
Sub order	Albulidae
<b>Family</b>	<b>Albulidae (bonefishes)</b>
103	<i>Albula vulpes</i> (Linnaeus, 1758)
104	<i>Albula neoguinaica</i> Cuvier & Valenciennes, 1847
Order	ANGUILLIFORMES
Sub order	Anguilloidei
<b>Family</b>	<b>Anguillidae (freshwater eels)</b>
105	<i>Anguilla bicolor</i> McClelland, 1844
106	<i>Anguilla nebulosa</i> McClelland, 1844
107	<i>Anguilla bengalensis</i> (Gray, 1831)
Sub order	Muraenoidei
<b>Family</b>	<b>Muraenidae (morays)</b>
108	<i>Echidna nebulosa</i> (Ahl, 1789)
109	<i>Echidna zebra</i> (Shaw, 1797)
110	<i>Gymnothorax javanicus</i> (Bleeker, 1859)
111	<i>Gymnothorax favagineus</i> Bloch & Schneider, 1801
112	<i>Gymnothorax flavimarginatus</i> (Rüppell, 1830)
113	<i>Gymnothorax meleagris</i> (Shaw, 1795)
114	<i>Gymnothorax octaviana</i> (Myers & Wade, 1941)
115	<i>Gymnothorax pictus</i> (Ahl, 1789)
116	<i>Gymnothorax rueppelliae</i> (McClelland, 1844)
117	<i>Gymnothorax thyrsoideus</i> (Richardson, 1845)
118	<i>Gymnothorax undulatus</i> (Lacepède, 1803)
119	<i>Strophidon sathete</i> (Hamilton, 1822)
120	<i>Thyrosidea macrura</i> (Bleeker, 1854)
121	<i>Uropterygius concolor</i> Rüppell, 1838
Sub order	Congroidei
<b>Family</b>	<b>Congridae (conger eels, garden eels)</b>
122	<i>Ariosoma anago</i> (Temminck & Schlegel, 1846)
123	<i>Ariosoma anagoides</i> (Bleeker, 1853)
124	<i>Ariosoma marginatum</i> (Vaillant & Sauvage, 1875)
125	<i>Conger cinereus</i> Rüppell, 1871
126	<i>Conger japonicus</i> Bleeker, 1879
127	<i>Paraconger macrops</i> (Günther, 1870)
128	<i>Paraconger notialis</i> Kanazawa, 1961
129	<i>Rhynchoconger nitens</i> (Jordan & Bollman, 1890)
130	<i>Uroconger lepturus</i> (Richardson, 1845)
<b>Family</b>	<b>Ophichthidae (snake eels)</b>
131	<i>Caecula pterygera</i> Vahl, 1794
132	<i>Lamnostoma orientalis</i> (McClelland, 1844)
133	<i>Pisodonophis boro</i> (Hamilton, 1822)
134	<i>Pisodonophis cancrivorus</i> (Richardson, 1848)
<b>Family</b>	<b>Muraenesocidae (pike congers)</b>
135	<i>Muraenesox cinereus</i> (Forsskål, 1775)
136	<i>Congresox talabanoides</i> (Bleeker, 1852)
137	<i>Congresox talabon</i> (Cuvier, 1829)

Order	CLUPEIFORMES
Sub order	Clupeoidei
<b>Family</b>	<b>Pristigasteridae (pristigasterids)</b>
138	<i>Hilsa ilisha</i> (Hamilton, 1822)
139	<i>Hilsa keele</i> (Cuvier, 1829)
140	<i>Hilsa toli</i> (Valenciennes, 1847)
141	<i>Ilisha elongata</i> Bennett, 1830
142	<i>Ilisha melastoma</i> (Bloch & Schneider, 1801)
143	<i>Ilisha sirishae</i> Seshagiri Rao, 1975
144	<i>Ilisha striatula</i> Wongratana, 1983
145	<i>Pellona dayi</i> Wongratana, 1983
<b>Family</b>	<b>Engraulidae (anchovies)</b>
146	<i>Coilia borneensis</i> Bleeker, 1852
147	<i>Coilia dussumieri</i> Valenciennes, 1848
148	<i>Coilia neglecta</i> Whitehead, 1968
149	<i>Encrasicholina punctifer</i> Fowler, 1938
150	<i>Encrasicholina devisi</i> (Whitley, 1940)
151	<i>Encrasicholina heteroloba</i> (Rüppell, 1837)
152	<i>Engraulis macrops</i> Kishinouye, 1911
153	<i>Setipinna melanochir</i> (Bleeker, 1849)
154	<i>Setipinna taty</i> (Valenciennes, 1848)
155	<i>Setipinna tenuifilis</i> (Valenciennes, 1848)
156	<i>Stolephorus dubiosus</i> Wongratana, 1983
157	<i>Stolephorus commersonii</i> Lacepède, 1803
158	<i>Stolephorus devisi</i> (Whitley, 1940)
159	<i>Stolephorus indicus</i> (van Hasselt, 1823)
160	<i>Stolephorus waitei</i> Jordan & Seale, 1926
161	<i>Thryssa hamiltonii</i> (Gray, 1835)
162	<i>Thryssa dayi</i> Wongaratna, 1983
163	<i>Thryssa dussumieri</i> (Valenciennes, 1848)
164	<i>Thryssa malabarica</i> (Bloch, 1795)
165	<i>Thryssa mystax</i> (Bloch & Schneider, 1801)
166	<i>Thryssa purava</i> (Hamilton, 1822)
167	<i>Thryssa setirostris</i> (Broussonet, 1782)
<b>Family</b>	<b>Chirocentridae (wolf herrings)</b>
168	<i>Chirocentrus dorab</i> Forsskål, 1775
169	<i>Chirocentrus nudus</i> Swainson, 1839
<b>Family</b>	<b>Clupeidae (herrings, sardines)</b>
170	<i>Amblygaster clupeoides</i> (Bleeker, 1849)
171	<i>Amblygaster leiogaster</i> (Valenciennes, 1847)
172	<i>Anodontostoma chacunda</i> (Hamilton, 1822)
173	<i>Dussumieria acuta</i> Valenciennes, 1847
174	<i>Dussumieria elopoides</i> Bleeker, 1849
175	<i>Escualosa thoracata</i> (Valenciennes, 1847)
176	<i>Gudusia chapra</i> (Hamilton, 1822)
177	<i>Nematalosa nasus</i> (Bloch, 1795)
178	<i>Opisthopterus tardoore</i> (Cuvier, 1829)
179	<i>Pellona ditchela</i> Valenciennes, 1847
180	<i>Pellona dayi</i> Wongaratna, 1983
181	<i>Pellona dussumieri</i> Valenciennes, 1847

182	<i>Raconda russeliana</i> Gray, 1831
183	<i>Sardinella albella</i> (Valenciennes, 1847)
184	<i>Sardinella brachysoma</i> (Bleeker, 1852)
185	<i>Sardinella dayi</i> Regan, 1917
186	<i>Sardinella fimbriata</i> (Valenciennes, 1847)
187	<i>Sardinella gibbosa</i> (Bleeker, 1849)
188	<i>Sardinella longiceps</i> Valenciennes, 1847
189	<i>Sardinella melanura</i> (Cuvier, 1829)
190	<i>Sardinella sirm</i> (Walbaum, 1729)
191	<i>Spratelloides malabaricus</i> (Schlegel & Temminck, 1846)
192	<i>Spratelloides gracilis</i> (Schlegel & Temminck, 1846)
193	<i>Spratelloides delicatulus</i> (Bennet, 1832)
194	<i>Tenualosa toli</i> (Valenciennes, 1847)
Order	GONORYNCHIFORMES
Sub order	Chanoidei
<b>Family</b>	<b>Chanidae (milkfishes)</b>
195	<i>Chanos chanos</i> (Forsskål, 1775)
Order	SILURIFORMES
<b>Family</b>	<b>Plotosidae (eel tail catfishes)</b>
196	<i>Plotosus canius</i> Hamilton, 1822
197	<i>Plotosus abbreviatus</i> Boulenger, 1895
198	<i>Plotosus lineatus</i> (Thunberg, 1787)
199	<i>Plotosus limbatus</i> Valenciennes, 1840
<b>Family</b>	<b>Ariidae (sea catfishes)</b>
200	<i>Arius jella</i> Day, 1877
201	<i>Arius arius</i> (Hamilton, 1822)
202	<i>Arius caelatus</i> Valenciennes, 1840
203	<i>Arius dussumieri</i> (Valenciennes, 1840)
204	<i>Arius maculatus</i> (Thunberg, 1792)
205	<i>Arius malabaricus</i> Day, 1877
206	<i>Arius platysomus</i> Day, 1877
207	<i>Arius sagor</i> (Hamilton, 1822)
208	<i>Arius sona</i> (Hamilton, 1822)
209	<i>Arius tenuispinis</i> Day, 1877
210	<i>Arius thalassinus</i> (Rüppell, 1838)
211	<i>Arius satparanus</i> Chaudhuri 1916
212	<i>Netuma serratus</i> (Day, 1877)
213	<i>Osteogeneiosus militaris</i> (Linnaeus, 1758)
<b>Family</b>	<b>Bagaridae (bagarid catfishes)</b>
214	<i>Macarones armatus</i> (Day, 1865)
215	<i>Macarones gulio</i> (Hamilton, 1822)
216	<i>Macarones microphthalmus</i> (Day, 1877)
217	<i>Mystus vittatus</i> (Bloch, 1794)
Sub division	EUTELEOSTEI
Super order	STENOPTERYGII
Order	STOMIIFORMES
<b>Family</b>	<b>Stomiidae (viper fishes, dragon fishes)</b>
218	<i>Chauliodus sloani</i> Bloch & Schneider, 1801
219	<i>Chauliodus pammelas</i> (Alcock, 1892)
220	<i>Stomias nebulosus</i> Alcock, 1889



<b>Family</b>	<b>Sternoptychidae (marine hatchetfishes)</b>
221	<i>Argyropelecus alcocki</i> (Goode & Bean, 1896)
222	<i>Argyropelecus affinis</i> Garman, 1899
223	<i>Polyipnus indicus</i> Schultz, 1961
224	<i>Polyipnus asper</i> Harold, 1994
225	<i>Polyipnus omphus</i> Baird, 1971
226	<i>Polyipnus spinosus</i> Günther, 1887
Super order	CYCLOSTOMATA
Order	AULOPIFORMES
<b>Family</b>	<b>Synodontidae (lizardfishes)</b>
227	<i>Saurida gracilis</i> (Quoy & Gaimard, 1824)
228	<i>Saurida longimanus</i> Norman, 1939
229	<i>Saurida tumbil</i> (Bloch, 1795)
230	<i>Saurida undosquamis</i> (Richardson, 1849)
231	<i>Synodus indicus</i> (Day, 1873)
232	<i>Trachynocephalus myops</i> (Bloch, 1792)
<b>Family</b>	<b>Chlorophthalmidae (queen eyes)</b>
233	<i>Chlorophthalmus agassizi</i> Bonnaparte, 1840
234	<i>Chlorophthalmus corniger</i> Alcock, 1894
Super order	SCOPELOMORPHA
Order	MYCTOPHIFORMES
<b>Family</b>	<b>Myctophidae (lanternfishes)</b>
235	<i>Ceratoscopelus warmingii</i> (Lutken, 1892)
236	<i>Diaphus effulgens</i> (Goode & Bean, 1896)
237	<i>Diaphus garmani</i> Gilbert, 1906
238	<i>Diaphus perspicillatus</i> (Ogilby, 1898)
239	<i>Diaphus thiollieri</i> Fowler, 1934
240	<i>Myctophum fussenovi</i> Becker & Borodulina, 1971
241	<i>Myctophum obtusirostre</i> Taning, 1928
Super order	LAMPRIOMORPHA
Order	LAMPRIFORMES
<b>Family</b>	<b>Regalecidae (oarfishes)</b>
242	<i>Regaleus glesne</i> Ascanius, 1772
Super order	POLYMIXIMORPHA
Order	POLYMIXIFORMES
<b>Family</b>	<b>Polymixiidae (beardfishes)</b>
243	<i>Polymixia berndti</i> Gilbert, 1905
244	<i>Polymixia busakhini</i> Kotlyar, 1992
245	<i>Polymixia fusca</i> Kotthaus, 1970
246	<i>Polymixia nobilis</i> Lowe, 1836
Order	GADIFORMES
<b>Family</b>	<b>Macrouridae (grenadiers)</b>
247	<i>Coelorinchus flabellispinnis</i> (Alcock, 1894)
248	<i>Coelorinchus macrolepis</i> Gilbert & Hubbs, 1920
249	<i>Macrurus fasciatus</i> (Weber, 1913)
250	<i>Macrurus heterolepis</i> (Alcock, 1889)
251	<i>Macrurus hispidus</i> (Alcock, 1889)
252	<i>Macrurus investigatoris</i> (Alcock, 1889)

<sup>1</sup>Synonym: *Liza planiceps* (Valenciennes, 1836)<sup>2</sup>Synonym: *Liza vaigiensis* (Quoy & Gaimard, 1825)<sup>3</sup>Synonym: *Valamugil cunnesius* (Valenciennes, 1836)

253	<i>Macrurus brevirostris</i> (Alcock, 1889)
254	<i>Nezumia semiquincunciata</i> (Alcock, 1889)
255	<i>Nezumia propinqua</i> (Gilbert & Cramer, 1897)
Order	BATRACHOIDIFORMES
<b>Family</b>	<b>Batrachoididae (toadfishes)</b>
256	<i>Allenbatrachus grunniens</i> (Linnaeus, 1758)
257	<i>Allenbatrachus reticulatus</i> (Steindachner, 1870)
258	<i>Batrachomoeus trispinosus</i> (Günther, 1861)
259	<i>Colletteichthys dussumieri</i> (Valenciennes, 1837)
260	<i>Colletteichthys occidentalis</i> Greenfield, 2012
261	<i>Perulibatrachus aquilonarius</i> Greenfield, 2005
<b>Family</b>	<b>Bregmacerotidae (unicorn cod)</b>
262	<i>Bregmaceros mcclellandi</i> Thomson, 1840
Order	LOPHIIFORMES
<b>Family</b>	<b>Lophiidae (monkfishes)</b>
263	<i>Lophiodes gracilimanus</i> (Alcock, 1899)
264	<i>Lophiodes insidiator</i> (Regan, 1921)
265	<i>Lophiodes lugubris</i> (Alcock, 1894)
266	<i>Lophiodes setigerus</i> (Vahl, 1797)
<b>Family</b>	<b>Antennariidae (frogfishes)</b>
267	<i>Antennarius biocellatus</i> (Cuvier, 1817)
268	<i>Antennarius hispidus</i> (Bloch & Schneider, 1801)
269	<i>Antennarius indicus</i> Schultz, 1964
270	<i>Histrio histrio</i> (Linnaeus, 1758)
<b>Family</b>	<b>Ogocephalidae (batfishes)</b>
271	<i>Coelophrys micropus</i> (Alcock, 1891)
272	<i>Dibranchus nasutus</i> Alcock, 1891
273	<i>Dibranchus hystrix</i> Garman, 1899
274	<i>Halieutaea fumosa</i> Alcock, 1894
275	<i>Halieutaea coccinea</i> Alcock, 1889
276	<i>Halieutaea indica</i> Annandale & Jenkins, 1910
277	<i>Halieutaea nigra</i> Alcock, 1891
278	<i>Halieutaea stellata</i> (Vahl, 1797)
Super order	ACANTHOPTERYGII
Order	MUGILIFORMES
<b>Family</b>	<b>Mugilidae (mullets)</b>
279	<i>Chelon tade</i> (Forsskål, 1775) <sup>1</sup>
280	<i>Liza kluzingeri</i> (Day, 1888)
281	<i>Liza melinopterus</i> (Valenciennes, 1836)
282	<i>Liza parsia</i> (Hamilton, 1822)
283	<i>Ellochelon vaigiensis</i> (Quoy & Gaimard, 1825) <sup>2</sup>
284	<i>Liza carinata</i> (Valenciennes, 1836)
285	<i>Liza dussumieri</i> (Valenciennes, 1836)
286	<i>Liza macrolepis</i> (Smith, 1849)
287	<i>Liza mandapamensis</i> (Thomson, 1997)
288	<i>Liza subviridis</i> (Valenciennes, 1836)
289	<i>Moolgarda cunnesius</i> (Valenciennes, 1836) <sup>3</sup>
290	<i>Mugil cephalus</i> Linnaeus, 1758,

291	<i>Planiliza alata</i> (Steindachner, 1892)
292	<i>Rhinomugil corsula</i> (Hamilton, 1822)
293	<i>Valamugil buchanani</i> (Bleeker, 1853)
294	<i>Valamugil seheli</i> (Bleeker, 1858)
295	<i>Valamugil speigleri</i> (Bleeker, 1858)
Super order	ATHERINEA
Order	ATHERINIFORMES
<b>Family</b>	<b>Atherinidae (silversides)</b>
296	<i>Atherina lacunosa</i> Forster, 1801,
297	<i>Atherina melanostigma</i> Day, 1876
298	<i>Atherina forskalii</i> Rüppell, 1838
299	<i>Atherinomorus duodecimalis</i> (Valenciennes, 1835)
Super order	CYPRINODONTEA
Order	BELOINIFORMES
<b>Family</b>	<b>Exocoetidae (flyingfishes)</b>
300	<i>Cheilopogon spilopterus</i> (Valenciennes 1847)
301	<i>Cheilopogon furcatus</i> (Mitchill, 1815)
302	<i>Cypselurus comatus</i> (Mitchill, 1815)
303	<i>Cypselurus oligolepis</i> (Bleeker, 1865)
304	<i>Exocoetus monocirrhus</i> Richardson, 1846
305	<i>Exocoetus volitans</i> Linnaeus 1758
306	<i>Hirundichthys oxycephalus</i> (Bleeker, 1853)
307	<i>Hirundichthys coromandelensis</i> (Hornell, 1923)
308	<i>Paraexocoetus branchypterus</i> (Richardson, 1846)
<b>Family</b>	<b>Hemirhamphidae (halfbeaks)</b>
309	<i>Hemirhamphus far</i> (Forsskål, 1775)
310	<i>Hemirhamphus lutkei</i> Valenciennes, 1847
311	<i>Hemirhamphus robustus</i> Günther, 1866
312	<i>Hemirhamphus marginatus</i> (Forsskål, 1775)
313	<i>Hemirhamphus quoyi</i> (Valenciennes, 1847)
314	<i>Hemirhamphus gaimardi</i> (Valenciennes, 1847)
315	<i>Hyporhamphus dussumieri</i> (Valenciennes, 1847)
316	<i>Hyporhamphus xanthopterus</i> (Valenciennes, 1847)
317	<i>Rhyncorhamphus malabaricus</i> Collette, 1976
<b>Family</b>	<b>Belonidae (fullbeaks)</b>
318	<i>Ablennes hians</i> (Valenciennes, 1846)
319	<i>Platybelone argalus</i> (Lesueur, 1821)
320	<i>Strongylura leiura</i> (Bleeker, 1850)
321	<i>Strongylura scapularis</i> (Jordan & Gilbert, 1882)
322	<i>Strongylura strongylura</i> (van Hasselt, 1823)
323	<i>Tylosurus choram</i> (Rüppell, 1837)
324	<i>Tylosurus crocodilus</i> (Peron & Lesueur, 1821)
325	<i>Tylosurus melanotus</i> (Bleeker, 1850)
Order	CYPRINODONTIFORMES
<b>Family</b>	<b>Aplocheilidae (rivulines)</b>
326	<i>Aplocheilus panchax</i> (Hamilton, 1822)
Order	BERCYFORMES
<b>Family</b>	<b>Berycidae (squirrelfishes)</b>

327	<i>Beryx delphini</i> Valenciennes, 1833
328	<i>Centroberyx gerrardi</i> (Günther, 1887)
329	<i>Centroberyx rubricaudus</i> Liu & Shen, 1985
<b>Family</b>	<b>Trachichthyidae (slimeheads)</b>
330	<i>Hoplostethus mediterraneus</i> (Cuvier, 1829)
<b>Family</b>	<b>Holocentridae (squirrelfishes &amp; soldierfishes)</b>
331	<i>Holocentrum lacteoguttatum</i> Cuvier & Valenciennes, 1829
332	<i>Myripristis adusta</i> Bleeker, 1853
333	<i>Myripristis murdjan</i> (Forsskål, 1775,)
334	<i>Myripristis berruti</i> (Jordan & Evermann, 1903)
335	<i>Neoniphon sammara</i> (Forsskål, 1775)
336	<i>Sargocentron caudimaculatum</i> (Rüppell, 1838)
337	<i>Sargocentron diadema</i> (Lacepède, 1802)
338	<i>Sargocentron rubrum</i> (Forsskål, 1775)
339	<i>Sargocentron spiniferum</i> (Forsskål, 1775)
Order	ZEIFORMES
<b>Family</b>	<b>Zeidae (dories)</b>
340	<i>Zenopsis conchifer</i> (Lowe, 1852)
Order	GASTEROSTEIFORMES
<b>Family</b>	<b>Pegasidae (seamoths)</b>
341	<i>Pegasus laternarius</i> Cuvier, 1816
342	<i>Pegasus volitans</i> Linnaeus, 1758
343	<i>Parapegus natus</i> Linnaeus, 1758
344	<i>Eurypegus draconius</i> (Linnaeus, 1766)
Order	SYNGNATHIFORMES
<b>Family</b>	<b>Syngnathidae (pipefishes &amp; seahorses)</b>
345	<i>Hippocampus fuscus</i> Rüppell, 1838
346	<i>Hippocampus histrix</i> Kaup, 1856
347	<i>Hippocampus kelloggi</i> Jordan & Snyder, 1901
348	<i>Hippocampus kuda</i> Bleeker, 1852
349	<i>Hippocampus spinosissimus</i> Weber, 1913
350	<i>Hippocampus trimaculatus</i> Leach, 1814
351	<i>Micrognathus brevis</i> (Rüppell, 1838)
352	<i>Syngnathoides biaculeatus</i> (Bloch, 1785)
353	<i>Trachyrhamphus longirostris</i> Kaup, 1856
354	<i>Trachyrhamphus serratus</i> (Temminck & Schlegel, 1850)
<b>Family</b>	<b>Fistulariidae (cornetfishes)</b>
355	<i>Fistularia petimba</i> Lacepède, 1803
356	<i>Fistularia paradoxus</i> (Pallas, 1770)
357	<i>Fistularia villosa</i> Klunzinger, 1871
<b>Family</b>	<b>Centriscidae (shrimpfishes, snipefishes)</b>
358	<i>Aeoliscus punctulatus</i> (Bianconi, 1854)
359	<i>Aeoliscus strigatus</i> (Günther, 1861)
360	<i>Centriscus scutatus</i> Linnaeus, 1758
361	<i>Centriscus humerosus</i> Richardson, 1846
Order	SCORPAENIFORMES
<b>Family</b>	<b>Scorpaenidae (scorpionfishes)</b>
362	<i>Dendrochirus zebra</i> (Cuvier, 1829)
363	<i>Minous inermis</i> Alcock, 1889
364	<i>Minous monodactylus</i> (Bloch & Schneider, 1801)



365	<i>Parapterois heterurus</i> (Bleeker, 1856)
366	<i>Pterois antennata</i> (Bloch, 1787)
367	<i>Pterois russelii</i> Bennett, 1831
368	<i>Pterois volitans</i> (Linnaeus, 1758)
369	<i>Rhinopias eschmeyerii</i> Conde, 1977
370	<i>Scorpaenodes corallinus</i> Smith, 1957
371	<i>Scorpaenodes parvipinnis</i> (Garrett, 1864)
372	<i>Scorpaenopsis gibbosa</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Tetrarogidae</b>
373	<i>Ablabys binotatus</i> (Peters, 1855)
<b>Family</b>	<b>Platycephalidae (flatheads)</b>
374	<i>Cociella crocodila</i> (Cuvier, 1829)
375	<i>Cociella punctata</i> (Cuvier, 1829)
376	<i>Grammolites scaber</i> (Linnaeus, 1758)
377	<i>Grammolites suppositus</i> (Troschel, 1840)
378	<i>Inegocia japonica</i> (Cuvier, 1829)
379	<i>Kumococius rodericensis</i> (Cuvier, 1829)
380	<i>Sunagocia carbunculus</i> (Valenciennes, 1833)
381	<i>Platycephalus indicus</i> (Linnaeus, 1758)
382	<i>Platycephalus macracanthus</i> (Bleeker, 1869)
383	<i>Rogadius asper</i> (Cuvier, 1829)
384	<i>Rogadius serratus</i> (Cuvier, 1829)
385	<i>Rogadius tuberculata</i> (Cuvier, 1829)
386	<i>Rogadius welanderi</i> (Schultz, 1966)
387	<i>Sunagocia carbunculus</i> (Valenciennes, 1833)
388	<i>Sunagocia otaitensis</i> (Cuvier, 1829)
<b>Family</b>	<b>Peristediidae (armored searobins or armored gurnards)</b>
389	<i>Peristedion adeni</i> (Loyd, 1907)
390	<i>Peristedion miniatum</i> Goode, 1880
Order	POLYNEMIFORMES
<b>Family</b>	<b>Polynemidae (threadfins)</b>
391	<i>Eleutheronema tetradactylum</i> (Shaw, 1804)
392	<i>Filimanus heptadactyla</i> (Cuvier, 1829)
393	<i>Filimanus similis</i> Feltes, 1991
394	<i>Polydactylus indicus</i> (Shaw, 1804)
395	<i>Polydactylus sextarius</i> (Bloch & Schneider, 1801)
396	<i>Polynemus dubius</i> Bleeker, 1853
397	<i>Polynemus indicus</i> (Shaw, 1804)
398	<i>Polynemus multifilis</i> (Temminck & Schlegel, 1843)
399	<i>Polynemus multiradiatus</i> (Günther, 1860)
400	<i>Polynemus paradiseus</i> Linnaeus, 1758
401	<i>Polynemus plebius</i> (Broussonet, 1782)
402	<i>Polynemus sexfilis</i> (Valenciennes, 1831)
403	<i>Polynemus sextarius</i> Bloch & Schneider, 1801
Order	PERCIFORMES
<b>Family</b>	<b>Ambassidae (asiatic glassfishes)</b>
404	<i>Ambassis commersonii</i> Cuvier, 1828
405	<i>Ambassis gymnocephalus</i> (Lacepède, 1802)
406	<i>Ambassis malabaricus</i> Valenciennes, 1849

407	<i>Ambassis nalua</i> (Hamilton, 1822)
408	<i>Parambassis dayi</i> (Bleeker, 1874)
<b>Family</b>	<b>Latidae (lates perches)</b>
409	<i>Psammoperca waigiensis</i> (Cuvier, 1828)
410	<i>Lates calcarifer</i> (Bloch, 1790)
<b>Family</b>	<b>Serranidae (sea basses, groupers)</b>
411	<i>Aulacocephalus temminckii</i> Bleeker, 1854
412	<i>Cephalopholis aurantia</i> (Valenciennes, 1828)
413	<i>Cephalopholis argus</i> Schneider, 1801
414	<i>Cephalopholis boenak</i> (Bloch, 1790)
415	<i>Cephalopholis formosa</i> (Shaw, 1804)
416	<i>Cephalopholis leopardus</i> (Lacepède, 1801)
417	<i>Cephalopholis polleni</i> (Bleeker, 1868)
418	<i>Cephalopholis sonnerati</i> (Valenciennes, 1828)
419	<i>Epinephelus fasciatus</i> (Forsskål, 1775)
420	<i>Epinephelus polyphekadion</i> (Bleeker, 1849)
421	<i>Epinephelus areolatus</i> (Forsskål, 1775)
422	<i>Epinephelus bleekeri</i> (Vaillant, 1878)
423	<i>Epinephelus coeruleopunctatus</i> (Bloch, 1790)
424	<i>Epinephelus chlorostigma</i> (Valenciennes, 1828)
425	<i>Epinephelus diacanthus</i> (Valenciennes, 1828)
426	<i>Epinephelus flavocaeruleus</i> (Lacepède, 1802)
427	<i>Epinephelus fuscoguttatus</i> (Forsskål, 1775)
428	<i>Epinephelus hexagonatus</i> (Forster, 1801)
429	<i>Epinephelus longispinis</i> (Kner, 1864)
430	<i>Epinephelus malabaricus</i> (Bloch & Schneider, 1801)
431	<i>Epinephelus merra</i> Bloch, 1793
432	<i>Epinephelus miniatus</i> (Forsskål, 1775)
433	<i>Epinephelus morrhua</i> (Valenciennes, 1833)
434	<i>Epinephelus sexfasciatus</i> (Valenciennes, 1828)
435	<i>Epinephelus tauvina</i> (Forsskål, 1775)
436	<i>Epinephelus undulosus</i> (Quoy & Gaimard, 1824)
437	<i>Grammistes sexlineatus</i> (Thunberg, 1792)
438	<i>Pogonoperca punctata</i> (Valenciennes, 1830)
439	<i>Promicrops lanceolatus</i> (Bloch, 1790)
440	<i>Variola louti</i> (Forsskål, 1775)
<b>Family</b>	<b>Priacanthidae (bigeyes or catalufas)</b>
441	<i>Priacanthus hamrur</i> Forsskål, 1775
442	<i>Priacanthus cruentatus</i> (Lacepède, 1801)
443	<i>Priacanthus tayenus</i> Richardson, 1846
444	<i>Priacanthus blochii</i> Bleeker, 1853
445	<i>Priacanthus macracanthus</i> Cuvier, 1829
<b>Family</b>	<b>Sillaginidae (smelt-whitings)</b>
446	<i>Sillago sihama</i> (Forsskål, 1775)
447	<i>Sillago maculata</i> Quoy & Gaimard, 1824
448	<i>Sillago aeolus</i> Jordan & Evermann, 1902
449	<i>Sillago vittata</i> McKay, 1985
450	<i>Sillago intermedius</i> Wongratana, 1977
451	<i>Sillago lutea</i> McKay, 1985
452	<i>Sillago vincenti</i> McKay, 1980

<b>Family</b>	<b>Malacanthidae (tilefishes)</b>
453	<i>Malacanthus latovittatus</i> (Lacepède, 1801)
<b>Family</b>	<b>Lactariidae (false trevally)</b>
454	<i>Lactarius lactarius</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Coryphaenidae (dolphinfishes)</b>
455	<i>Coryphaena hippurus</i> Linnaeus, 1758
456	<i>Coryphaena equiselis</i> Linnaeus, 1758
<b>Family</b>	<b>Rachycentridae (cobia)</b>
457	<i>Rachycentron canadum</i> (Linnaeus, 1766)
<b>Family</b>	<b>Echeneidae (remoras, shark suckers)</b>
458	<i>Echeneis naucrates</i> Linnaeus, 1758
459	<i>Remora remora</i> (Linnaeus, 1758)
460	<i>Remora osteochir</i> (Cuvier, 1829)
<b>Family</b>	<b>Apogonidae (cardinalfishes)</b>
461	<i>Apogon aureus</i> (Lacepède, 1802)
462	<i>Apogon compressus</i> (Smith & Radcliffe, 1911)
463	<i>Apogon ellioti</i> Day, 1875
464	<i>Apogon endekataenia</i> Bleeker, 1852
465	<i>Apogon enneastigma</i> Rüppell, 1838
466	<i>Apogon fraenatus</i> (Valenciennes, 1832)
467	<i>Apogon kallopterus</i> Bleeker, 1856
468	<i>Apogon leptacanthus</i> Bleeker, 1856
469	<i>Apogon lineatus</i> Temminck & Schlegel, 1843
470	<i>Apogon nigricans</i> Day, 1875
471	<i>Apogon nigripinnis</i> Cuvier, 1828
472	<i>Apogon nigrofasciatus</i> Lachner, 1953
473	<i>Apogon novemfasciatus</i> Cuvier, 1828
474	<i>Apogon quadrifasciatus</i> Cuvier, 1828
475	<i>Apogon quinquestriatus</i> Regan, 1908
476	<i>Apogon savayensis</i> Günther, 1872
477	<i>Apogon septemstriatus</i> Günther, 1880
478	<i>Apogon smithi</i> (Kotthaus, 1970)
479	<i>Apogon truncatus</i> Bleeker, 1855
480	<i>Apogonichthyoidea erdmanni</i> Fraser & Allen, 2011
481	<i>Apogonichthyoidea umbratilis</i> Fraser & Allen, 2010
482	<i>Apogonichthys ocellatus</i> (Weber, 1913)
483	<i>Apogonichthyoidea pseudotaeniatus</i> (Gon, 1986)
484	<i>Archamia macroptera</i> (Cuvier, 1828)
485	<i>Cheilodipterus artus</i> Smith, 1961
486	<i>Cheilodipterus macrodon</i> (Lacepède, 1802)
487	<i>Cheilodipterus quinquelineatus</i> Cuvier, 1828
488	<i>Foa brachygramma</i> (Jenkins, 1903)
489	<i>Fowleria marmorata</i> (Alleyne & Macleay, 1877)
490	<i>Glossamia arguni</i> Hadiaty & Allen, 2011
491	<i>Glossamia sandei</i> (Weber, 1907)
492	<i>Glossamia trifasciata</i> (Weber, 1913)
493	<i>Neamia octospina</i> Smith & Radcliffe, 1912
494	<i>Ostorhinchus apogonoides</i> (Bleeker, 1856)
495	<i>Ostorhinchus chrysoenia</i> (Bleeker, 1851)
496	<i>Ostorhinchus cyanosoma</i> (Bleeker, 1853)

497	<i>Ostorhinchus dispar</i> (Fraser & Randall, 1976)
498	<i>Ostorhinchus fleurieu</i> (Lacepède, 1802)
499	<i>Ostorhinchus hoevenii</i> (Bleeker, 1854)
500	<i>Ostorhinchus lateralis</i> (Valenciennes, 1832)
501	<i>Pristiapogon fraenatus</i> (Valenciennes, 1832)
502	<i>Synagrops adeni</i> Kotthaus, 1970
503	<i>Synagrops japonicus</i> (Döderlein, 1883)
<b>Family</b>	<b>Carangidae (jacks &amp; pompanos)</b>
504	<i>Alectis ciliaris</i> (Bloch, 1787)
505	<i>Alectis indica</i> (Rüppell, 1830)
506	<i>Alepes djedaba</i> (Forsskål, 1775)
507	<i>Alepes kleinii</i> (Bloch, 1793)
508	<i>Alepes melanoptera</i> (Swainson, 1839)
509	<i>Alepes vari</i> (Cuvier, 1833)
510	<i>Atopus atropos</i> (Bloch & Schneider, 1801)
511	<i>Atule mate</i> (Cuvier, 1833)
512	<i>Carangoides armatus</i> (Rüppell, 1830)
513	<i>Carangoides bajad</i> (Forsskål, 1775)
514	<i>Carangoides coeruleopinnatus</i> (Rüppell, 1830)
515	<i>Carangoides chrysophrys</i> (Cuvier, 1833)
516	<i>Carangoides dinema</i> Bleeker, 1851
517	<i>Carangoides equula</i> (Temminck & Schlegel, 1844)
518	<i>Carangoides ferdau</i> (Forsskål, 1775)
519	<i>Carangoides fulvoguttatus</i> (Forsskål, 1775)
520	<i>Carangoides gymnostethus</i> (Cuvier, 1833)
521	<i>Carangoides hedlandensis</i> (Whitley, 1934)
522	<i>Carangoides malabaricus</i> (Bloch & Schneider, 1801)
523	<i>Carangoides oblongus</i> (Cuvier, 1833)
524	<i>Carangoides orthogrammus</i> (Jordan & Gilbert, 1881)
525	<i>Carangoides plagiotaenia</i> Bleeker, 1857
526	<i>Carangoides praeustus</i> Bennett, 1830
527	<i>Carangoides talamparoides</i> Bleeker, 1852
528	<i>Carangoides uii</i> (Wakiya, 1924)
529	<i>Caranx carangus</i> (Bloch, 1793)
530	<i>Caranx ignobilis</i> (Forsskål, 1775)
531	<i>Caranx lugubris</i> Poey, 1860
532	<i>Caranx melampygus</i> Cuvier, 1833
533	<i>Caranx papuensis</i> Alleyne & Macleay, 1877
534	<i>Caranx sem</i> Cuvier, 1833
535	<i>Caranx sexfasciatus</i> Quoy & Gaimard, 1825
536	<i>Caranx tille</i> Cuvier, 1833
537	<i>Decapterus kurroides</i> Bleeker, 1855
538	<i>Decapterus macarellus</i> Cuvier, 1833
539	<i>Decapterus macrosoma</i> Bleeker, 1851
540	<i>Decapterus russelli</i> (Rüppell, 1830)
541	<i>Decapterus tabl</i> Berry, 1968
542	<i>Elagatis bipinnulata</i> (Quoy & Gaimard, 1825)
543	<i>Gnathanodon speciosus</i> (Forsskål, 1775)
544	<i>Megalaspis cordyla</i> (Linnaeus, 1758)
545	<i>Naucrates ductor</i> (Linnaeus, 1758)

546	<i>Parastromateus niger</i> (Bloch, 1795)	589	<i>Aphareus furca</i> (Lacepède, 1801)
547	<i>Scomberoides commersonianus</i> Lacepède, 1801	590	<i>Aprion virescens</i> Valenciennes, 1830
548	<i>Scomberoides lysan</i> (Forsskål, 1775)	591	<i>Aphareus rutilans</i> Cuvier, 1830
549	<i>Scomberoides tala</i> (Cuvier, 1832)	592	<i>Etelis coruscans</i> Valenciennes, 1862
550	<i>Scomberoides tol</i> (Cuvier, 1832)	593	<i>Etelis carbunculus</i> Cuvier, 1828
551	<i>Selar boops</i> (Cuvier, 1833)	594	<i>Lipocheilius camolabrum</i> (Chan, 1970)
552	<i>Selar crumenophthalmus</i> (Bloch, 1793)	595	<i>Lutjanus argentimaculatus</i> (Forsskål, 1775)
553	<i>Selaroides leptolepis</i> (Cuvier, 1833)	596	<i>Lutjanus bengalensis</i> (Bloch, 1790)
554	<i>Seriola rivoliana</i> Valenciennes, 1833	597	<i>Lutjanus biguttatus</i> (Valenciennes, 1830)
555	<i>Seriola dumerili</i> (Risso, 1810)	598	<i>Lutjanus bohar</i> (Forsskål, 1775)
556	<i>Seriolina nigrofasciata</i> (Rüppell, 1829)	599	<i>Lutjanus boutton</i> (Lacepède, 1802)
557	<i>Trachinotus baillonii</i> (Lacepède, 1801)	600	<i>Lutjanus coeruleolineatus</i> (Rüppell, 1838)
558	<i>Trachinotus blochii</i> (Lacepède, 1801)	601	<i>Lutjanus decussatus</i> (Cuvier, 1828)
559	<i>Trachinotus coppingeri</i> Günther, 1884	602	<i>Lutjanus ehrenbergii</i> (Peter, 1869)
560	<i>Trachinotus mookalee</i> Cuvier, 1832	603	<i>Lutjanus erythropterus</i> Bloch, 1790
561	<i>Trachinotus russelii</i> Cuvier, 1832	604	<i>Lutjanus fulviflamma</i> (Forsskål, 1775)
562	<i>Ulua mentalis</i> (Cuvier, 1833)	605	<i>Lutjanus fulvus</i> (Schneider, 1801)
563	<i>Uraspis helvola</i> (Forster, 1801)	606	<i>Lutjanus gibbus</i> (Forster, 1801)
564	<i>Uraspis secunda</i> (Poey, 1860)	607	<i>Lutjanus guilcheri</i> Fourmanoir, 1959
565	<i>Uraspis uraspis</i> (Günther, 1860)	608	<i>Lutjanus johnii</i> (Bloch, 1792)
<b>Family</b>	<b>Menidae (moonfishes)</b>	609	<i>Lutjanus kasmira</i> (Forsskål, 1775)
566	<i>Mene maculata</i> (Bloch & Schneider, 1801)	610	<i>Lutjanus lemniscatus</i> (Valenciennes, 1828)
<b>Family</b>	<b>Leiognathidae (silverbellies, ponyfishes)</b>	611	<i>Lutjanus lineolatus</i> (Rüppell, 1829)
567	<i>Aurigequula longispina</i> (Valenciennes, 1835) <sup>1</sup>	612	<i>Lutjanus lunulatus</i> (Park, 1797)
568	<i>Aurigequula fasciata</i> (Lacepède, 1803) <sup>2</sup>	613	<i>Lutjanus lutjanus</i> Bloch, 1790
569	<i>Equulites absconditus</i> Chakrabarty & Sparks, 2010	614	<i>Lutjanus madras</i> (Valenciennes, 1831)
570	<i>Equulites elongatus</i> (Günther, 1874) <sup>3</sup>	615	<i>Lutjanus malabaricus</i> (Bloch & Schneider, 1801)
571	<i>Equulites leuciscus</i> (Günther, 1860) <sup>4</sup>	616	<i>Lutjanus monostigma</i> (Cuvier, 1828)
572	<i>Eubleekeria rapsoni</i> (Munro, 1964)	617	<i>Lutjanus quinquelineatus</i> (Bloch, 1790)
573	<i>Eubleekeria splendens</i> (Cuvier, 1829) <sup>5</sup>	618	<i>Lutjanus rivulatus</i> (Cuvier, 1828)
574	<i>Gazza achlamys</i> Jordan & Starks, 1917	619	<i>Lutjanus rufolineatus</i> (Valenciennes, 1830)
575	<i>Gazza minuta</i> (Bloch, 1795)	620	<i>Lutjanus indicus</i> Allen, White & Erdmann, 2013
576	<i>Gazza shettyi</i> Jayabalan, 1986	621	<i>Lutjanus sebae</i> (Cuvier, 1816)
577	<i>Karalla daura</i> (Cuvier, 1829) <sup>6</sup>	622	<i>Lutjanus sanguineus</i> (Cuvier, 1828)
578	<i>Karalla dussumieri</i> (Valenciennes, 1835) <sup>7</sup>	623	<i>Lutjanus vitta</i> (Quoy & Gaimard, 1824)
579	<i>Leiognathus smithrusti</i> Ramsay & Ogilby 1886	624	<i>Pinjalo pinjalo</i> (Bleeker, 1850)
580	<i>Leiognathus jonesi</i> James, 1971	625	<i>Pinjalo lewisi</i> (Randall, Allen & Anderson, 1987)
581	<i>Leiognathus berbis</i> (Valenciennes, 1835)	626	<i>Pristipomoides filamentosus</i> (Valenciennes, 1830)
582	<i>Leiognathus equulus</i> (Forsskål, 1775)	627	<i>Pristipomoides auricilla</i> (Jordan, Evermann & Tanaka, 1927)
583	<i>Nuchequula nuchalis</i> (Temminck & Schlegel, 1845)	628	<i>Pristipomoides multidentis</i> (Day, 1871)
584	<i>Nuchequula mannusella</i> Chakrabarty & Sparks, 2007	629	<i>Pristipomoides typus</i> Bleeker, 1852
585	<i>Photopectoralis bindus</i> (Valenciennes, 1835) <sup>8</sup>	630	<i>Pristipomoides zonatus</i> (Valenciennes, 1830)
586	<i>Secutor insidiator</i> (Bloch, 1787)	631	<i>Macolor niger</i> (Forsskål, 1775)
587	<i>Secutor ruconius</i> (Hamilton, 1822)	632	<i>Paracaesio sordida</i> Abe & Shinohara, 1962.
<b>Family</b>	<b>Bramidae (breams)</b>	<b>Family</b>	<b>Lobotidae (triple-tails)</b>
588	<i>Brama rajii</i> (Bloch & Schneider, 1801)	633	<i>Lobotes surinamensis</i> (Bloch, 1790)
<b>Family</b>	<b>Lutjanidae (snappers)</b>	<b>Family</b>	<b>Caesionidae (fusiliers)</b>

<sup>1</sup> Synonym: *Leiognathus longispinis* (Valenciennes, 1835)<sup>2</sup> Synonym: *Leiognathus fasciatus* (Lacepède, 1803)<sup>3</sup> Synonym: *Leiognathus elongatus* (Günther, 1874)<sup>4</sup> Synonym: *Leiognathus leuciscus* (Günther, 1860)<sup>5</sup> Synonym: *Leiognathus splendens* (Cuvier, 1829)<sup>6</sup> Synonym: *Leiognathus daura* (Cuvier, 1829)<sup>7</sup> Synonym: *Leiognathus dussumieri* (Valenciennes, 1835)<sup>8</sup> Synonym: *Leiognathus bindus* (Valenciennes, 1835)

634	<i>Caesio cuning</i> (Bloch, 1791)
635	<i>Caesio chrysozona</i> Cuvier, 1830
636	<i>Caesio erythrogaster</i> Cuvier, 1830
637	<i>Caesio caerulea</i> Lacepède, 1801
638	<i>Pterocaesio tile</i> (Cuvier, 1830)
<b>Family</b>	<b>Gerreidae (mojarras)</b>
639	<i>Gerres argyreus</i> (Forster, 1801)
640	<i>Gerres abbreviatus</i> Bleeker, 1850
641	<i>Gerres filamentous</i> Cuvier, 1829
642	<i>Gerres limbatus</i> (Cuvier, 1830)
643	<i>Gerres oblongus</i> Cuvier, 1830
644	<i>Gerres oyena</i> (Forsskål, 1775)
645	<i>Pentaprion longimanus</i> (Cantor, 1849)
<b>Family</b>	<b>Haemulidae (sweetlips, grunts)</b>
646	<i>Diagramma pictum</i> (Thunberg, 1792)
647	<i>Plectorhinchus gibbosus</i> (Lacepède, 1802)
648	<i>Plectorhinchus flavomaculatus</i> (Cuvier, 1830)
649	<i>Plectorhinchus nigrus</i> (Cuvier, 1830)
650	<i>Plectorhinchus schotaf</i> (Forsskål, 1775)
651	<i>Plectorhinchus vittatus</i> (Linnaeus, 1758)
652	<i>Plectorhinchus gibbosus</i> (Lacepède, 1802)
653	<i>Plectorhinchus lineatus</i> (Linnaeus, 1758)
654	<i>Plectorhinchus orientalis</i> (Bloch, 1793)
655	<i>Pomadasys argyreus</i> (Valenciennes, 1833)
656	<i>Pomadasys commersonii</i> (Lacepède, 1801)
657	<i>Pomadasys auritus</i> (Cuvier, 1830)
658	<i>Pomadasys trifasciatus</i> (Fowler, 1937)
659	<i>Pomadasys hasta</i> (Bloch, 1790)
660	<i>Pomadasys maculatum</i> (Bloch, 1793)
661	<i>Pomadasys olivaceus</i> (Day, 1875)
662	<i>Pomadasys argenteus</i> (Forsskål, 1775)
663	<i>Pomadasys kaakan</i> (Cuvier, 1830)
<b>Family</b>	<b>Nemipteridae (Threadfin breams)</b>
664	<i>Nemipterus nematophorus</i> (Bleeker, 1854)
665	<i>Nemipterus peronii</i> (Valenciennes, 1830)
666	<i>Nemipterus bipunctatus</i> (Valenciennes, 1830)
667	<i>Nemipterus delagoae</i> Smith, 1941
668	<i>Nemipterus japonicus</i> (Bloch, 1791)
669	<i>Nemipterus mesoprion</i> (Bleeker, 1853)
670	<i>Nemipterus zysron</i> (Bleeker, 1856)
671	<i>Parascolopsis eriomma</i> (Jordan & Richardson, 1909)
672	<i>Parascolopsis inermis</i> (Temminck & Schlegel, 1843)
673	<i>Scolopsis bimaculata</i> Rüppell, 1828
674	<i>Scolopsis vosmeri</i> (Bloch, 1792)
<b>Family</b>	<b>Lethrinidae (pigface breams, emperors)</b>
675	<i>Gymnocranius griseus</i> (Temminck & Schlegel, 1844)
676	<i>Lethrinus lentjan</i> (Lacepède, 1802)
677	<i>Lethrinus mahsena</i> (Forsskål, 1775)
678	<i>Lethrinella miniatus</i> (Forster, 1801)
679	<i>Lethrinus fletus</i> Whitley, 1943

680	<i>Lethrinus harak</i> (Forsskål, 1775)
681	<i>Lethrinus microdon</i> Valenciennes, 1830
682	<i>Lethrinus nebulosus</i> (Forsskål, 1775)
683	<i>Lethrinus ornatus</i> Valenciennes, 1830
684	<i>Lethrinus ramark</i> Forsskål, 1775
685	<i>Lethrinus reticulatus</i> Valenciennes, 1830
686	<i>Lethrinus rhodopterus</i> Bleeker, 1852
687	<i>Lethrinus cinereus</i> Valenciennes, 1830
688	<i>Lethrinus variegatus</i> Valenciennes, 1846
689	<i>Monotaxis grandoculis</i> (Forsskål, 1775)
690	<i>Plectorhinchus nigrus</i> (Cuvier, 1830)
<b>Family</b>	<b>Sparidae (porgies, seabreams)</b>
691	<i>Acanthopagrus berda</i> (Forsskål, 1775)
692	<i>Acanthopagrus latus</i> (Houttuyn, 1782)
693	<i>Argyrops filamentosus</i> (Valenciennes, 1830)
694	<i>Argyrops spinifer</i> (Forsskål, 1775)
695	<i>Crenidens crenidens</i> (Forsskål, 1775)
696	<i>Rhabdosargus sarba</i> (Forsskål, 1775)
697	<i>Sparidentex hasta</i> (Valenciennes, 1830)
<b>Family</b>	<b>Sciaenidae (drums or croakers)</b>
698	<i>Atrobucca nibe</i> (Jordan & Thompson, 1911)
699	<i>Johnnieops coitor</i> (Hamilton, 1822)
700	<i>Johnius sina</i> (Cuvier, 1830)
701	<i>Johnius vogleri</i> (Bleeker, 1853)
702	<i>Johnius glaucus</i> (Day, 1876)
703	<i>Johnius amblycephalus</i> (Bleeker, 1855)
704	<i>Johnius aneus</i> (Bloch, 1793)
705	<i>Johnius carouna</i> (Cuvier, 1830)
706	<i>Johnius carutta</i> Bloch, 1793
707	<i>Johnius dussumieri</i> (Cuvier, 1830)
708	<i>Johnius elongatus</i> Lal Mohan, 1976
709	<i>Johnius macrolepidotus</i> (Bloch & Schneider, 1801)
710	<i>Johnius macrorhynchus</i> (Lal Mohan, 1976)
711	<i>Johnius mannarensis</i> Lal Mohan, 1971
712	<i>Johnius maropterus</i> (Bleeker, 1853)
713	<i>Kathala axillaris</i> (Cuvier, 1830)
714	<i>Nibeia albida</i> (Cuvier, 1830)
715	<i>Nibeia diacanthus</i> (Lacepède, 1802)
716	<i>Nibeia maculata</i> (Bloch & Schneider, 1801)
717	<i>Nibeia soldado</i> (Lacepède, 1802)
718	<i>Otolithes cuvieri</i> Trewavas, 1974
719	<i>Otolithes ruber</i> (Bloch & Schneider, 1801)
720	<i>Otolithes argenteus</i> Cuvier, 1830
721	<i>Otolithes maculatus</i> Cuvier, 1830
722	<i>Otolithoides pama</i> (Hamilton, 1822)
723	<i>Otolithoides biauritus</i> (Cantor, 1849)
724	<i>Panna heterolepis</i> Trewavas, 1977
725	<i>Panna microdon</i> (Bleeker, 1849)
726	<i>Pennahia anea</i> (Bloch, 1793)
727	<i>Pennahia macrophthalmus</i> (Bleeker, 1850)

728	<i>Protonibea diacanthus</i> (Lacepède, 1802)
729	<i>Pseudoscianea indica</i> Tang, 1937
730	<i>Pseudoscianea coibor</i> (Hamilton, 1822)
<b>Family</b>	<b>Triglidae (sea robins)</b>
731	<i>Chelidonichthys capensis</i> (Cuvier 1829).
732	<i>Enneapterygius abeli</i> (Klausewitz, 1960)
733	<i>Helcogramma obtusirostris</i> (Klunzinger, 1871)
734	<i>Helcogramma ellioti</i> (Herre, 1944)
735	<i>Lepidotrigla riggsi</i> Richards & Saksena, 1977
736	<i>Pterygotrigla hemisticta</i> (Temminck & Schlegel, 1843)
<b>Family</b>	<b>Mullidae (goatfishes)</b>
737	<i>Mullus auriflamma</i> (Forsskål, 1775)
738	<i>Mullus chrysoleuron</i> Temminck & Schlegel, 1843
739	<i>Mullus barberinus</i> (Lacepède, 1801)
740	<i>Mulloidichthys flavolineatus</i> (Lacepède, 1801)
741	<i>Parupeneus pleurospilus</i> (Bleeker)
742	<i>Parupeneus indicus</i> (Shaw, 1803)
743	<i>Parupeneus bifasciatus</i> (Lacepède, 1801)
744	<i>Parupeneus cyclostomus</i> (Lacepède, 1801)
745	<i>Upeneus luzonius</i> Jordan & Seale, 1907
746	<i>Upeneus bensasi</i> (Temminck & Schlegel, 1843)
747	<i>Upeneus moluccensis</i> (Bleeker, 1855)
748	<i>Upeneus oligospilus</i> Lachner, 1954
749	<i>Upeneus sulphureus</i> Cuvier, 1829
750	<i>Upeneus sundaicus</i> (Bleeker, 1855)
751	<i>Upeneus taeniopterus</i> Cuvier, 1829
752	<i>Upeneus tragula</i> Richardson, 1846
753	<i>Upeneus vittatus</i> (Forsskål, 1775)
<b>Family</b>	<b>Pempheridae (sweepers)</b>
754	<i>Pempheris moluca</i> Cuvier, 1829
755	<i>Pempheris vanicolensis</i> Cuvier, 1831
756	<i>Pempheris oualensis</i> Cuvier, 1831
<b>Family</b>	<b>Monodactylidae (moonies)</b>
757	<i>Monodactylus argenteus</i> (Linnaeus, 1758)
<b>Family</b>	<b>Kyphosidae (sea chubs)</b>
758	<i>Kyphosus cinerascens</i> (Forsskål, 1775)
759	<i>Kyphosus vaigiensis</i> (Quoy & Gaimard, 1825)
<b>Family</b>	<b>Drepaneidae (sicklefishes)</b>
760	<i>Drepane punctata</i> (Linnaeus, 1758)
761	<i>Drepane longimana</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Chaetodontidae (butterflyfishes)</b>
762	<i>Chaetodon auriga</i> Forsskål, 1775
763	<i>Chaetodon bennetti</i> Cuvier, 1831
764	<i>Chaetodon citrinellus</i> Cuvier, 1831
765	<i>Chaetodon collare</i> Bloch, 1787
766	<i>Chaetodon decussatus</i> (Cuvier, 1829)
767	<i>Chaetodon fasciatus</i> Forsskål, 1775
768	<i>Chaetodon gardineri</i> Norman, 1939
769	<i>Chaetodon kleinii</i> Bloch, 1790
770	<i>Chaetodon leucopleura</i> Playfair, 1867
771	<i>Chaetodon lineolatus</i> (Cuvier, 1831)
772	<i>Chaetodon lunula</i> (Lacepède, 1802)
773	<i>Chaetodon melannotus</i> (Bloch & Schneider, 1801)
774	<i>Chaetodon octofasciatus</i> Bloch, 1787
775	<i>Chaetodon oxycephalus</i> (Bleeker, 1853)
776	<i>Chaetodon plebeius</i> Cuvier, 1831
777	<i>Chaetodon semilarvatus</i> Cuvier, 1831
778	<i>Chaetodon speculum</i> Cuvier, 1831
779	<i>Chaetodon trifascialis</i> (Quoy & Gaimard, 1825)
780	<i>Chaetodon trifasciatus</i> Park, 1797
781	<i>Chaetodon vagabundus</i> Linnaeus, 1758
782	<i>Chaetodon xanthocephalus</i> Bennett, 1833
783	<i>Heniochus acuminatus</i> (Linnaeus, 1758)
784	<i>Heniochus chrysostomus</i> (Cuvier, 1831)
785	<i>Heniochus monoceros</i> Cuvier, 1831
786	<i>Heniochus pleurotaenia</i> Ahl, 1923
787	<i>Heniochus singularis</i> Smith & Radcliffe, 1911
788	<i>Heniochus varius</i> (Cuvier, 1829)
789	<i>Megaprotodon striangulus</i> Cuvier, 1831
<b>Family</b>	<b>Pomacanthidae (angelfishes)</b>
790	<i>Apolemichthys xanthurus</i> (Bennet, 1833)
791	<i>Centropyge flavipectoralis</i> Randall & Klausewitz, 1977
792	<i>Chaetodontoplus melanosoma</i> (Bleeker, 1853)
793	<i>Chaetodontoplus mesoleucus</i> (Bloch, 1787)
794	<i>Pomacanthus annularis</i> (Bloch, 1787)
795	<i>Pomacanthus imperator</i> (Bloch, 1787)
796	<i>Pomacanthus semicirculatus</i> (Cuvier, 1831)
<b>Family</b>	<b>Terapontidae (grunters or tigerperches)</b>
797	<i>Terapon jarbua</i> (Forsskål, 1775)
798	<i>Terapon theraps</i> Cuvier, 1829
799	<i>Pelates quadrilineatus</i> (Bloch, 1790)
800	<i>Terapon puta</i> Cuvier, 1829
<b>Family</b>	<b>Cichlidae (cichlids)</b>
801	<i>Etoplus suratensis</i> (Bloch, 1790)
802	<i>Tilapia mossambica</i> (Peters, 1852)
803	<i>Etoplus maculatus</i> (Bloch, 1795)
<b>Family</b>	<b>Pomacentridae (damselfishes)</b>
804	<i>Abudefduf bengalensis</i> (Bloch, 1787)
805	<i>Abudefduf biocellatus</i> (Quoy & Gaimard 1825)
806	<i>Abudefduf notatus</i> (Day, 1870)
807	<i>Abudefduf septemfasciatus</i> (Cuvier, 1830)
808	<i>Abudefduf saxatilis</i> (Linnaeus, 1758)
809	<i>Abudefduf saxfasciatus</i> (Lacepède, 1801)
810	<i>Abudefduf sordidus</i> (Forsskål, 1775)
811	<i>Abudefduf uniozellatus</i> (Quoy & Gaimard, 1825)
812	<i>Abudefduf vaigiensis</i> (Quoy & Gaimard, 1825)
813	<i>Amphiprion allardi</i> Klausewitz, 1970
814	<i>Amphiprion clarkii</i> (Bennett, 1830)
815	<i>Amphiprion ocellaris</i> (Cuvier, 1830)
816	<i>Amphiprion percula</i> (Lacepède, 1802)

817	<i>Amphiprion polymnus</i> (Linnaeus, 1758)
818	<i>Amphiprion sebae</i> (Bleeker, 1853)
819	<i>Chromis caerulea</i> (Cuvier, 1830)
820	<i>Chromis castanea</i> (Cuvier, 1814)
821	<i>Chromis dimidiata</i> (Klunzinger, 1871)
822	<i>Chromis opercularis</i> (Günther, 1867)
823	<i>Chromis viridis</i> (Cuvier, 1830)
824	<i>Chrysiptera unimaculata</i> (Cuvier, 1830)
825	<i>Dascyllus aruanus</i> (Linnaeus, 1758)
826	<i>Dascyllus trimaculatus</i> (Rüppell, 1829)
827	<i>Neopomacentrus filamentosus</i> (Macleay, 1882)
828	<i>Neopomacentrus nemurus</i> (Bleeker, 1857)
829	<i>Plectroglyphidodon dickii</i> (Lienard, 1839)
830	<i>Pomacentrus trilineatus</i> Cuvier, 1830
831	<i>Pomacentrus tripunctatus</i> Cuvier, 1830
832	<i>Pomacentrus caeruleus</i> Quoy & Gaimard, 1825
833	<i>Pomacentrus pavo</i> (Bloch, 1787)
834	<i>Pomacentrus vaiuli</i> (Jordan & Seale, 1906)
835	<i>Premnas biaculeatus</i> (Bloch, 1790)
836	<i>Simochromis diagramma</i> (Günther, 1894)
837	<i>Stegastes aureus</i> (Fowler, 1927)
838	<i>Stegastes fasciolatus</i> (Ogilby, 1889)
839	<i>Stegastes nigricans</i> (Lacepède, 1802)
<b>Family</b>	<b>Labridae (wrasses)</b>
840	<i>Anampses lineatus</i> Randall, 1972
841	<i>Bodianus diana</i> (Lacepède, 1801)
842	<i>Bodianus macrourus</i> (Lacepède, 1801)
843	<i>Bodianus neilli</i> (Day, 1867)
844	<i>Cheilio inermis</i> (Forsskål, 1775)
845	<i>Cheilodipterus quinquelineatus</i> Cuvier, 1828
846	<i>Cheilinus chlorourus</i> (Bloch, 1791)
847	<i>Cheilinus diagrammus</i> (Lacepède, 1801)
848	<i>Cheilinus oxycephalus</i> Bleeker, 1853
849	<i>Cheilinus trilobatus</i> Lacepède, 1801
850	<i>Cheilinus undulates</i> Rüppell, 1835
851	<i>Coris caudimacula</i> (Quoy & Gaimard, 1834)
852	<i>Coris formosa</i> (Bennet, 1830)
853	<i>Coris gaimard</i> (Quoy & Gaimard, 1824)
854	<i>Epibulus insidiator</i> (Pallas, 1770)
855	<i>Gomphosus caeruleus</i> Lacepède, 1801
856	<i>Halichoeres zeylonius</i> (Bennett, 1833)
857	<i>Halichoeres centiquadrus</i> (Lacepède, 1801)
858	<i>Halichoeres hartzfeldii</i> (Bleeker, 1852)
859	<i>Halichoeres hortulanus</i> (Lacepède, 1801)
860	<i>Halichoeres leucurus</i> (Walbaum, 1792)
861	<i>Halichoeres melanochir</i> Fowler & Bean, 1928
862	<i>Halichoeres nigrescens</i> (Bloch & Schneider, 1801)
863	<i>Hemigymnus fasciatus</i> (Bloch, 1792)
864	<i>Hemigymnus melapterus</i> (Bloch, 1791)
865	<i>Hologymnosus annulatus</i> (Lacepède, 1801)

866	<i>Iniistius bimaculatus</i> (Rüppell, 1829)
867	<i>Iniistius dea</i> (Temminck & Schlegel, 1845)
868	<i>Iniistius pavo</i> (Valenciennes, 1840)
869	<i>Labroides dimidiatus</i> (Valenciennes, 1839)
870	<i>Oxycheilinus bimaculatus</i> (Valenciennes, 1840)
871	<i>Oxycheilinus digramma</i> (Lacepède, 1801)
872	<i>Stethojulis axillaris</i> (Quoy & Gaimard, 1824)
873	<i>Stethojulis balteata</i> (Quoy & Gaimard, 1824)
874	<i>Stethojulis interrupta</i> (Bleeker, 1851)
875	<i>Stethojulis trilineata</i> (Bloch & Schneider, 1801)
876	<i>Thalassoma hardwickii</i> (Bennett, 1830)
877	<i>Thalassoma janseni</i> (Bleeker, 1856)
878	<i>Thalassoma lunare</i> (Linnaeus, 1758)
879	<i>Thalassoma purpureum</i> (Forsskål, 1775)
880	<i>Thalassoma trilobatum</i> (Lacepède, 1801)
881	<i>Xanthichthys ringens</i> (Linnaeus, 1758)
882	<i>Xyrichtys margaritatus</i> Fourmanoir, 1967
883	<i>Xyrichtys novacula</i> (Linnaeus, 1758)
<b>Family</b>	<b>Scaridae (parrotfishes)</b>
884	<i>Bolbometopon muricatum</i> (Valenciennes, 1840)
885	<i>Calotomus spinidens</i> (Quoy & Gaimard, 1824)
886	<i>Cetoscarus bicolor</i> (Rüppell, 1829)
887	<i>Chlorurus gibbus</i> (Rüppell, 1829)
888	<i>Chlorurus oedema</i> (Snyder, 1909)
889	<i>Chlorurus sordidus</i> (Forsskål, 1775)
890	<i>Hipposcarus harid</i> (Forsskål, 1775)
891	<i>Leptoscarus vaigiensis</i> (Quoy & Gaimard, 1824)
892	<i>Scarus arabicus</i> (Steindachner, 1902)
893	<i>Scarus denticulatus</i> Lacepède, 1802
894	<i>Scarus ferrugineus</i> Forsskal, 1775
895	<i>Scarus forsskael</i> Lacepède, 1802
896	<i>Scarus ghobban</i> Forsskål, 1775
897	<i>Scarus globiceps</i> Valenciennes, 1840
898	<i>Scarus niger</i> Forsskål, 1775
899	<i>Scarus psittacus</i> Forsskål, 1775
900	<i>Scarus rubroviolaceus</i> Bleeker, 1847
901	<i>Scarus russellii</i> Valenciennes, 1840
902	<i>Scarus tricolor</i> Bleeker, 1847
<b>Family</b>	<b>Ephippidae (spadefishes)</b>
903	<i>Ephippus orbis</i> (Bloch, 1787)
904	<i>Platax pinnatus</i> Linnaeus, 1758
905	<i>Platax orbicularis</i> (Forsskål, 1775)
906	<i>Platax teira</i> (Forsskål, 1775)
<b>Family</b>	<b>Scatophagidae (scats)</b>
907	<i>Scatophagus argus</i> (Linnaeus, 1766)
<b>Family</b>	<b>Percophidae (duckbills)</b>
908	<i>Bembrops caudimacula</i> Steindachner, 1876
909	<i>Bembrops platyrhynchus</i> (Alcock, 1894)
910	<i>Bembrops curvatura</i> Okada & Suzuki, 1952
911	<i>Chironena chlorotaenia</i> McKay, 1971



<b>Family</b>	<b>Siganidae (rabbitfishes)</b>
912	<i>Siganus argenteus</i> (Quoy & Gaimard, 1825)
913	<i>Siganus canaliculatus</i> (Park, 1797)
914	<i>Siganus corallinus</i> (Valenciennes, 1835)
915	<i>Siganus javus</i> (Linnaeus, 1766)
916	<i>Siganus lineatus</i> (Valenciennes, 1825)
917	<i>Siganus luridis</i> (Rüppell, 1829)
918	<i>Siganus puellus</i> (Schlegel, 1852)
919	<i>Siganus punctatus</i> (Schneider & Foster, 1801)
920	<i>Siganus spinus</i> (Linnaeus, 1758)
921	<i>Siganus stellatus</i> (Forsskål, 1775)
922	<i>Siganus vermiculatus</i> (Valenciennes, 1835)
923	<i>Siganus virgatus</i> (Valenciennes, 1835)
<b>Family</b>	<b>Cepolidae (bandfishes)</b>
924	<i>Acanthocepola indica</i> (Day, 1888)
925	<i>Acanthocepola limbata</i> (Valenciennes, 1835)
926	<i>Cepola abbreviata</i> (Valenciennes, 1835)
927	<i>Cepola coecula</i> Bloch & Schneider, 1801
<b>Family</b>	<b>Zanclidae (moorish idols)</b>
928	<i>Zanclus cronotus</i> (Linnaeus, 1758)
<b>Family</b>	<b>Acanthuridae (surgeonfishes, unicornfishes)</b>
929	<i>Acanthaluteres spilomelanurus</i> (Quoy & Gaimard, 1825)
930	<i>Acanthurus annularis</i> (Valenciennes, 1835)
931	<i>Acanthurus bariene</i> Lesson, 1831
932	<i>Acanthurus gahm</i> (Forsskål, 1775)
933	<i>Acanthurus leucosternon</i> (Bennett, 1833)
934	<i>Acanthurus lineatus</i> (Linnaeus, 1758)
935	<i>Acanthurus mata</i> (Cuvier, 1829)
936	<i>Acanthurus nigricans</i> (Linnaeus, 1758)
937	<i>Acanthurus pyroferus</i> Kittlitz, 1834
938	<i>Acanthurus triostegus</i> (Linnaeus, 1758)
939	<i>Acanthurus xanthopterus</i> Valenciennes, 1835
940	<i>Ctenochaetus striatus</i> (Quoy & Gaimard, 1825)
941	<i>Naso brevirostris</i> (Cuvier, 1829)
942	<i>Naso hexanthus</i> (Bleeker, 1855)
943	<i>Naso lituratus</i> (Forsskål, 1801)
944	<i>Naso tuberosus</i> Lacepède, 1802
945	<i>Naso unicornis</i> (Forsskål, 1775)
946	<i>Paracanthurus hepatus</i> (Linnaeus, 1766)
947	<i>Zebrasoma velifer</i> (Bloch, 1795)
948	<i>Zebrasoma xanthurum</i> (Blyth, 1852)
<b>Family</b>	<b>Sphyraenidae (barracudas)</b>
949	<i>Sphyraena barracuda</i> (Edwards, 1771)
950	<i>Sphyraena flavicauda</i> Rüppell, 1838
951	<i>Sphyraena forsteri</i> Cuvier, 1829
952	<i>Sphyraena jello</i> Cuvier, 1829
953	<i>Sphyraena obtusata</i> Cuvier, 1829
<b>Family</b>	<b>Gempylidae (snake mackerels)</b>

954	<i>Gempylus serpens</i> Cuvier, 1829
955	<i>Lepidocybium flavobrunneum</i> (Smith, 1843)
956	<i>Neopinnula orientalis</i> (Gilchrist & von Bonde, 1924)
957	<i>Rexea bengalensis</i> (Alcock, 1894)
958	<i>Rexea promethoides</i> (Bleeker, 1856)
959	<i>Ruvettus pretiosus</i> Cocco, 1833
960	<i>Thysites atun</i> (Euphrasen, 1791)
961	<i>Thysitoides marleyi</i> Fowler, 1929
<b>Family</b>	<b>Trichiuridae (ribbonfishes)</b>
962	<i>Eupleurogrammus muticus</i> (Gray, 1831)
963	<i>Lepturacanthus savala</i> (Cuvier, 1829)
964	<i>Trichiurus lepturus</i> Linnaeus, 1758
965	<i>Trichiurus auriga</i> Klunzinger, 1884
<b>Family</b>	<b>Scombridae (mackerels, tunas)</b>
966	<i>Acanthocybium solandri</i> (Cuvier, 1831)
967	<i>Auxis rochei</i> (Risso, 1810)
968	<i>Auxis thazard</i> (Lacepède, 1800)
969	<i>Euthynnus affinis</i> (Cantor, 1849)
970	<i>Katsuwonus pelamis</i> (Linnaeus, 1758)
971	<i>Rastrelliger kanagurta</i> (Cuvier, 1816)
972	<i>Sarda orientalis</i> (Temminck & Schlegel, 1844)
973	<i>Scomberomorus commerson</i> (Lacepède, 1800)
974	<i>Scomberomorus guttatus</i> (Bloch & Schneider, 1801)
975	<i>Scomberomorus lineolatus</i> (Cuvier, 1831)
976	<i>Thunnus alalunga</i> (Bonnaterre, 1788)
977	<i>Thunnus albacares</i> (Bonnaterre, 1788)
978	<i>Thunnus obesus</i> (Lowe, 1839)
979	<i>Thunnus tonggol</i> (Bleeker, 1790)
<b>Family</b>	<b>Xiphiidae (swordfish)</b>
980	<i>Xiphias gladius</i> Linnaeus, 1758
<b>Family</b>	<b>Istiophoridae (billfishes)</b>
981	<i>Istiophorus platypterus</i> (Shaw, 1792)
982	<i>Istiompax indica</i> (Cuvier, 1832) <sup>1</sup>
983	<i>Makaira nigricans</i> Lacepède, 1802
984	<i>Tetrapturus angustirostris</i> Tanaka, 1915
985	<i>Tetrapturus audax</i> (Phillipi, 1887)
<b>Family</b>	<b>Ariommatidae (arriommatids)</b>
986	<i>Arioma indica</i> (Day, 1871)
<b>Family</b>	<b>Stromateidae (butterfishes)</b>
987	<i>Pampus argenteus</i> (Euphrasen, 1788)
988	<i>Pampus chinensis</i> (Euphrasen, 1788)
<b>Family</b>	<b>Nomeidae (driftfishes)</b>
989	<i>Cubiceps pauciradiatus</i> Gunther, 1872
990	<i>Cubiceps whiteleggii</i> (Waite, 1894)
<b>Family</b>	<b>Samaridae (crested flounders)</b>
991	<i>Samaris cristatus</i> Gray, 1831
992	<i>Samariscus triocellatus</i> Woods, 1960
993	<i>Samariscus longimanus</i> Norman, 1927

<sup>1</sup> Synonym: *Makaira indica* (Cuvier, 1832)

994	<i>Samariscus huysmani</i> Weber, 1913
<b>Family</b>	<b>Ateleopodidae (jellynosefishes)</b>
995	<i>Ateleopus indicus</i> Alcock, 1891
996	<i>Ijimaia loppei</i> Roule, 1922
<b>Family</b>	<b>Ammodytidae (sandlances)</b>
997	<i>Bleekeria kallepis</i> (Gunther, 1829)
998	<i>Bleekeria murtii</i> Joshi, Zacharia & Kanthan, 2012
<b>Family</b>	<b>Blenniidae (combtooth blennies)</b>
999	<i>Blenniella cyanostigma</i> (Bleeker, 1849)
1000	<i>Ecsenius bicolor</i> (Day, 1888)
1001	<i>Ecsenius frontalis</i> (Valenciennes, 1836)
1002	<i>Entomacrodus striatus</i> (Valenciennes, 1836)
1003	<i>Haptogenys bipunctata</i> (Day, 1876)
1004	<i>Omobranchus elongatus</i> (Peters, 1855)
1005	<i>Omobranchus zebra</i> (Bleeker, 1868)
1006	<i>Petrosciartes breviceps</i> (Valenciennes, 1836)
1007	<i>Petrosciartes variabilis</i> Cantor, 1849
1008	<i>Salarias fasciatus</i> (Bloch, 1786)
<b>Family</b>	<b>Gobiidae (gobies)</b>
1009	<i>Acentrogobius audax</i> Smith, 1959
1010	<i>Acentrogobius caninus</i> (Valenciennes, 1837)
1011	<i>Acentrogobius ennorensis</i> Menon & Remadevi, 1980
1012	<i>Acentrogobius janthinopterus</i> (Bleeker, 1853)
1013	<i>Acentrogobius masoni</i> (Day, 1873)
1014	<i>Acentrogobius nebulosus</i> (Forsskål, 1775)
1015	<i>Amblyeleotris diagonalis</i> Polunin & Lubbock, 1979
1016	<i>Amblyeleotris guttata</i> (Fowler, 1938)
1017	<i>Amblyeleotris gymnocephala</i> (Bleeker, 1853)
1018	<i>Amblyeleotris steinitzi</i> (Klausewitz, 1974)
1019	<i>Amblyeleotris wheeleri</i> (Polunin & Lubbock, 1977)
1020	<i>Amblygobius albimaculatus</i> (Rüppell, 1830)
1021	<i>Amblygobius decussatus</i> (Bleeker, 1835)
1022	<i>Amblygobius phalaena</i> (Valenciennes, 1837)
1023	<i>Amblygobius sphynx</i> (Valenciennes, 1837)
1024	<i>Amoya madraspatensis</i> (Day, 1868)
1025	<i>Bathygobius cotticeps</i> (Steindachner, 1879)
1026	<i>Bathygobius fuscus</i> (Rüppell, 1830)
1027	<i>Bathygobius ostreicola</i> (Chaudhuri, 1916)
1028	<i>Boleophthalmus birdsongi</i> Murdy, 1989
1029	<i>Boleophthalmus boddarti</i> (Pallas, 1770)
1030	<i>Callogobius hasseltii</i> (Bleeker, 1851)
1031	<i>Gobiodon citrinus</i> (Rüppell, 1838)
1032	<i>Gobioides broussonnetii</i> (Lacepède, 1800)
1033	<i>Gobius bontii</i> Bleeker, 1849
1034	<i>Oligolepis acutipennis</i> (Valenciennes, 1837)
1035	<i>Parachaeturichthys polynema</i> (Bleeker, 1853)
1036	<i>Priolepis semidoliata</i> (Valenciennes, 1837)
1037	<i>Psammogobius biocellatus</i> (Valenciennes, 1837)

1038	<i>Pseudogobius javanicus</i> (Bleeker, 1856)
<b>Order</b>	<b>PLEURONECTIFORMES</b>
<b>Family</b>	<b>Psettodidae (righteye flounders)</b>
1039	<i>Psettodes erumei</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Paralichthyidae (large-tooth flounders)</b>
1040	<i>Pseudorhombus annulatus</i> Norman, 1927
1041	<i>Pseudorhombus argus</i> Weber, 1913
1042	<i>Pseudorhombus arsius</i> (Hamilton, 1822)
1043	<i>Pseudorhombus dupliocellatus</i> Regan, 1905
1044	<i>Pseudorhombus elevatus</i> Ogilby, 1912
1045	<i>Pseudorhombus javanicus</i> (Bleeker, 1853)
1046	<i>Pseudorhombus megalops</i> Fowler, 1934
1047	<i>Pseudorhombus micrognathus</i> Norman, 1927
1048	<i>Pseudorhombus natalensis</i> Gilchrist, 1905
1049	<i>Pseudorhombus triocellatus</i> (Bloch & Schneider, 1801)
<b>Family</b>	<b>Bothidae (lefteye flounders)</b>
1050	<i>Arnoglossus tapeinosoma</i> (Bleeker, 1865)
1051	<i>Arnoglossus waitei</i> Norman, 1926
1052	<i>Bothus bleekeri</i> Steindachner, 1861
1053	<i>Bothus myriaster</i> (Temminck & Schlegel, 1846)
1054	<i>Bothus pantherinus</i> (Rüppell, 1830)
1055	<i>Chascanopsetta megastoma</i> Kamohara, 1936
1056	<i>Chascanopsetta lugubris</i> Alcock, 1894
1057	<i>Chascanopsetta prognatha</i> Norman, 1939
1058	<i>Engyprosodon grandisquama</i> (Temminck & Schlegel, 1846)
1059	<i>Engyprosodon macrolepis</i> (Regan, 1908)
<b>Family</b>	<b>Soleidae (soles)</b>
1060	<i>Aesopia cornuta</i> Kaup, 1858
1061	<i>Brachirus annularis</i> Fowler, 1934
1062	<i>Brachirus orientalis</i> (Bloch & Schneider, 1801)
1063	<i>Brachirus pan</i> (Hamilton, 1822)
1064	<i>Heteromycteris oculus</i> (Alcock, 1889)
1065	<i>Pardachirus marmoratus</i> (Lacepède, 1802)
1066	<i>Solea elongata</i> Day, 1877
1067	<i>Solea ovata</i> Richardson, 1846
1068	<i>Synaptura commersonii</i> (Lacepède, 1802)
1069	<i>Synaptura marginata</i> Boulenger, 1900
1070	<i>Zebrias synapturoides</i> (Jenkins, 1910)
1071	<i>Zebrias quagga</i> (Kaup, 1858)
1072	<i>Zebrias zebra</i> (Bloch, 1787)
<b>Family</b>	<b>Cynoglossidae (tonguefishes)</b>
1073	<i>Cynoglossus arei</i> (Bloch & Schneider, 1801)
1074	<i>Cynoglossus bilineatus</i> (Lacepède, 1802)
1075	<i>Cynoglossus brachycephalus</i> Bleeker, 1870
1076	<i>Cynoglossus carpenteri</i> Alcock, 1889
1077	<i>Cynoglossus cynoglossus</i> (Hamilton, 1822)
1078	<i>Cynoglossus dispar</i> Day 1877
1079	<i>Cynoglossus dubius</i> Day 1873
1080	<i>Cynoglossus lida</i> (Bleeker, 1851)
1081	<i>Cynoglossus lingua</i> Hamilton, 1822

1082	<i>Cynoglossus microlepis</i> (Bleeker, 1851)
1083	<i>Cynoglossus macrostomus</i> Norman, 1928
1084	<i>Cynoglossus puniticeps</i> (Richardson, 1846)
1085	<i>Cynoglossus semifasciatus</i> Day, 1877
1086	<i>Paraplagusia bilineata</i> (Bloch, 1787)
1087	<i>Paraplagusia blochii</i> (Bleeker, 1851)
1088	<i>Symphurus trifasciatus</i> (Alcock, 1894)
1089	<i>Symphurus macrophthalmus</i> Norman, 1939
1090	<i>Symphurus ocellatus</i> von Bonde, 1922
Order	TETRAODONTIFORMES
<b>Family</b>	<b>Triacanthodidae (spikefishes)</b>
1091	<i>Triacanthodes anomalus</i> (Temminck & Schlegel, 1850)
1092	<i>Triacanthodes ethiops</i> Alcock, 1894
<b>Family</b>	<b>Triacanthidae (tripodfishes)</b>
1093	<i>Triacanthus biaculeatus</i> (Bloch, 1971)
1094	<i>Triacanthus brevirostris</i> (Temminck & Schlegel, 1850)
1095	<i>Pseudotriacanthus strigillifer</i> (Cantor, 1849)
<b>Family</b>	<b>Balistidae (triggerfishes)</b>
1096	<i>Abalistes stellaris</i> (Bloch & Schneider, 1801)
1097	<i>Abalistes stellatus</i> (Anonymus, 1798)
1098	<i>Balistes capistratus</i> Shaw, 1804
1099	<i>Balistes rotundatus</i> Marion de Procé, 1822
1100	<i>Balistes tomentosus</i> Linnaeus, 1758
1101	<i>Balistapus undulatus</i> (Park, 1797)
1102	<i>Balistoides viridescens</i> Bloch & Schneider, 1801
1103	<i>Balistoides conspicillum</i> (Bloch & Schneider, 1801)
1104	<i>Canthidermis maculata</i> (Bloch, 1786)
1105	<i>Melichthys niger</i> (Bloch, 1786)
1106	<i>Odonus niger</i> (Rüppell, 1836)
1107	<i>Pseudobalistes fuscus</i> (Bloch & Schneider, 1801)
1108	<i>Pseudobalistes flavimarginatus</i> (Rüppell, 1829)
1109	<i>Rhineacanthus aculeatus</i> (Linnaeus, 1758)
1110	<i>Rhineacanthus rectangulus</i> (Bloch & Schneider, 1801)
1111	<i>Sufflamen bursa</i> (Bloch & Schneider, 1801)
1112	<i>Sufflamen chrysopterum</i> (Bloch & Schneider, 1801)
1113	<i>Sufflamen fraenatum</i> (Latreille, 1804)
<b>Family</b>	<b>Monacanthidae (filefishes)</b>
1114	<i>Acreichthys tomentosus</i> (Linnaeus, 1758)
1115	<i>Aluterus monoceros</i> (Linnaeus, 1758)
1116	<i>Aluterus scriptus</i> (Osbeck, 1765)
1117	<i>Amanses scopas</i> (Cuvier, 1829)
1118	<i>Anacanthus barbatus</i> (Gray, 1830)
1119	<i>Cantherhines dumerilii</i> (Hollard, 1854)
1120	<i>Cantherhines fronticinctus</i> (Günther, 1867)
1121	<i>Cantherhines longicaudus</i> Hutchins & Randall, 1982
1122	<i>Cantherhines pardalis</i> (Rüppell, 1837)
1123	<i>Cantherhines rapanui</i> (de Buen, 1963)
1124	<i>Chaetodermis penicilligerus</i> (Cuvier, 1816)
1125	<i>Oxymonacanthus longirostris</i> (Bloch & Schneider, 1801)
1126	<i>Paraluteres prionurus</i> (Bleeker, 1851)

1127	<i>Paramonacanthus arabicus</i> Hutchins, 1997
1128	<i>Paramonacanthus choirocephalus</i> (Bleeker, 1852)
1129	<i>Paramonacanthus japonicus</i> (Tilesius, 1809)
1130	<i>Paramonacanthus oblongus</i> (Temminck & Schlegel, 1850)
1131	<i>Paramonacanthus otisensis</i> Whitley, 1931
1132	<i>Paramonacanthus pusillus</i> (Rüppell, 1829)
1133	<i>Paramonacanthus tricuspis</i> (Hollard, 1854)
1134	<i>Pervagor melanocephalus</i> (Bleeker, 1853)
1135	<i>Pseudomonacanthus peroni</i> (Hollard, 1854)
1136	<i>Stephanolepis auratus</i> (Castelnau, 1861)
1137	<i>Stephanolepis diaspros</i> Fraser-Brunner, 1940
1138	<i>Thamnaconus modestoides</i> (Barnard, 1927)
1139	<i>Thamnaconus striatus</i> (Kotthaus, 1979)
<b>Family</b>	<b>Ostraciidae (boxfishes, cowfishes)</b>
1140	<i>Lactoria cornuta</i> (Linnaeus, 1758)
1141	<i>Ostracion cubicus</i> Linnaeus, 1758
1142	<i>Ostracion meleagris</i> Shaw, 1796
1143	<i>Ostracion rhinorhynchus</i> Bleeker, 1851
1144	<i>Ostracion nasus</i> (Bloch, 1785)
1145	<i>Tetrosomus concatenatus</i> (Bloch, 1785)
1146	<i>Tetrosomus reipublicae</i> (Whitley, 1930)
1147	<i>Tetrosomus gibbosus</i> (Linnaeus, 1758)
<b>Family</b>	<b>Tetraodontidae (puffer fishes)</b>
1148	<i>Amblyrhynchotes honckenii</i> (Bloch, 1785)
1149	<i>Arothron hispidus</i> (Linnaeus, 1758)
1150	<i>Arothron immaculatus</i> (Bloch & Schneider, 1801)
1151	<i>Arothron leopardus</i> (Day, 1875)
1152	<i>Arothron reticularis</i> (Bloch & Schneider, 1801)
1153	<i>Arothron stellatus</i> (Anonymus, 1798)
1154	<i>Canthigaster amboinensis</i> (Bleeker, 1864)
1155	<i>Canthigaster bennetti</i> (Bleeker, 1854)
1156	<i>Canthigaster margaritatus</i> (Rüppell, 1829)
1157	<i>Canthigaster solandri</i> (Richardson, 1845)
1158	<i>Lagocephalus gloveri</i> Abe & Tabeta, 1983
1159	<i>Lagocephalus guentheri</i> Miranda Ribeiro, 1915
1160	<i>Lagocephalus laevigatus</i> (Linnaeus, 1766)
1161	<i>Lagocephalus lagocephalus</i> (Linnaeus, 1758)
1162	<i>Lagocephalus spadiceus</i> (Richardson, 1845)
<b>Family</b>	<b>Diodontidae (porcupinefishes)</b>
1163	<i>Chilomycterus orbicularis</i> (Bloch, 1785)
1164	<i>Chilomycterus spilostylus</i> Lies & Randall, 1982
1165	<i>Diodon holcanthus</i> (Linnaeus, 1758)
1166	<i>Diodon hystrix</i> Linnaeus, 1758
1167	<i>Diodon maculifer</i> Kaup, 1855
1168	<i>Lophiodiodon calori</i> (Bianconi, 1850)
<b>Family</b>	<b>Molidae (ocean sunfishes)</b>
1169	<i>Masturus lanceolatus</i> (Lienard, 1840)
1170	<i>Masturus oxyropterus</i> (Bleeker, 1873)
1171	<i>Mola mola</i> (Linnaeus, 1758)

1172	<i>Ranzania laevis</i> (Pennant, 1776)
<b>Order</b>	<b>OPHIDIIFORMES</b>
<b>Family</b>	<b>Ophidiidae (cusk eels)</b>
1173	<i>Holcomycteropus pterotus</i> (Alcock, 1890)
1174	<i>Neobythites unimaculatus</i> (Smith & Radcliffe, 1913)
1175	<i>Neobythites steatiticus</i> Alcock, 1894
1176	<i>Neobythites stefanovi</i> Nielsen & Uiblein, 1993
1177	<i>Neobythites multistriatus</i> (Nielsen & Quero, 1991)
<b>Family</b>	<b>Carapidae (pearlfishes)</b>
1178	<i>Carapus mourlani</i> (Petit, 1934)
1179	<i>Encheliophis homei</i> (Richardson, 1846)
1180	<i>Onuxodon margaritifera</i> (Rendahl, 1921)
1181	<i>Pyramodon ventralis</i> Smith & Radcliffe, 1913
1182	<i>Pyramodon lindas</i> (Markle & Olney, 1990)

Chakrabarty *et al.* (2008; 2010: Silverbellies); Joshi *et al.* (2011 : Carangidae) and Joshi *et al.* (2012 a: Tuna) were useful in the compilation and preparation of systematic list of fishes in the present study.

## Results and discussion

The study revealed the presence of 1,182 fish species belonging to 476 genera, 144 families and 39 orders in the Gulf of Mannar Ecosystem (Table 1). Of these 628 species were collected and identified in the present study. Details of the 554 species were taken from the past studies conducted in the GOME by earlier workers (James, 1967; Murty, 1969; Thomas, 1969; Venkataramani & Ramaiyan, 1977; Williams & Venkataramani, 1978; James, 1985; Venkataramani *et al.*, 1995; Abdussamad *et al.*, 2006; Varghese *et al.*, 2011; Varghese, 2011; Zacharia *et al.*, 2011; Joshi *et al.*, 2012b, Mannisseri *et al.*, 2012; Zacharia and Kannan, 2012).

Pioneering studies on the taxonomy of Indian fishes began in the late 18<sup>th</sup> century by European scientists and officers of the British East India Company. One of the pioneers was Bloch (1795), and his student Schneider (Bloch and Schneider, 1801), followed by Lacepede (1798-1803). In 1794, Dr. Buchanan Hamilton, Superintendent of the Botanical gardens, Calcutta, took up a study of the fishes of the Ganges, and completed after 28 years (Hamilton, 1822) which was probably the first official catalogue of Indian fishes. Hamilton was followed by Cuvier and Valenciennes (1828) and Gunther (1859). Dr. Alcock who undertook the first marine fisheries survey in India published the findings in 1869. Perhaps the most important work during this period, pertaining to the subject was that of Sir Francis Day, Surgeon Major with the British troops in Bengal, who studied the systematics of Indian fishes in depth for over 20 years. His monumental work was published in two volumes as the 'The Fishes of India: being a natural history of the fishes known to inhabit the seas and fresh waters of India' Vol. I and II (1878) and the 'The Fauna of

British India, including Ceylon and Burma' (1889). During the subsequent period of one century, a large number of fishes have been described and added to the list prepared by Day. The important works during this period with regard to the taxonomy of fishes of the Indian waters are by Munro (1955), Jones and Kumaran (1980), who published descriptions of over 600 species from Laccadives archipelago, Talwar and Kacker (1984), and the most recent compilation of Talwar and Jhingran (1991), who published descriptions of a total of 930 species of inland (fresh and brackishwater) fishes of India.

GOMBR has a coastal line of 300 km and 10 km wide with a buffer zone on either side of the coastal zone (Melkani *et al.*, 2006). The GOMNP is under the jurisdiction of the Wildlife Protection Act of India (1972) which prevents illegal activities in the Park. The National Park was placed under the Management of Tamil Nadu Forest Department. United Nation Development Programme (UNDP) completed a GEF funded project on the conservation and sustainable use of the Gulf of Mannar Biosphere Reserve and coastal biodiversity with the cooperation of the Government of Tamil Nadu and Government of India. Thus this area now became one of the important Marine Protected Areas of the World.

*Rhinopias eschmeyerii* Condé, 1977 was recorded for the first time from Indian waters in the GOM (Varghese, 2011). Two specimens of this species were landed by trawlers during November, 2009. Pelagic stingray, *Pteroplatytrygon violacea* (Bonaparte, 1832) was recorded for the first time from the GOM of India (Zacharia *et al.*, 2012). A female specimen measuring 91 cm in TL was collected from the hooks and line landings from Tuticorin on 9<sup>th</sup> July 2009. The species might have been migrated from the populations available in the equator, along with the monsoon currents. Two populations of *P. violacea* were present in the Indian Ocean, one along the equator between Africa and Australia and another along the southeast coast of Australia. The species recorded from the Gulf of Mannar, might have dispersed or migrated either from the equator or from South Australian waters. The presence of *P. violacea* along the GOM area of the Indian coast can be attributed to the migration of this species from the equator population.

A new fish species of the genus *Bleekeria* were collected by trawl nets off Tuticorin of GOMBR from a depth of 20-30 m. *Bleekeria murtii* characterized by 34-39 dorsal rays, 12-16 anal rays, 80-108 lateral line scales, high head length (21.1-23.2 in SL), smaller eye diameter (2.45-5.37 mm) and high body height (8.7-19.7 mm). The species-specific characters, colour pattern and morphometric variations are described in detail (Joshi *et al.*, 2012b). *Ablabys binotatus* (Peters, 1855) was recorded for the first time from Indian

waters in the GOM (Varghese, 2013). One specimen of this rare species was collected from trawl landings during November, 2007. A new record on the occurrence of *Neobythites multistriatus* which hitherto had not been recorded from the Bay of Bengal is reported. Two specimens measuring 160 and 180 mm standard length were collected from the landings of a deep-sea trawler by-catch at depths of 200–250 m off the Tuticorin coast in the Gulf of Mannar (part of the Bay of Bengal) during March 2010 (Kannan *et al.*, 2013 a). *Neobythites stefanovi* is recorded for the first time from Indian waters in the Gulf of Mannar (Kannan *et al.*, 2013 b). Two specimens were landed as by-catch in trawl gear at the Tuticorin fisheries harbor, southeast coast of India, in March 2010. This is also the first record of the species outside the Red Sea, Gulf of Oman and Gulf of Aden, in the western Indian Ocean. The taxonomy of tuna species of India is an attempt to provide adequate descriptions of all known species from Indian waters, and also to sort out various issues relating to identification of species (Joshi *et al.*, 2012 a). The description of the otolith and the photographs are of the first of its kind on the taxonomy of tuna species which shows species specific differences in morphology and structure. The results of studies on the otolith might provide information related to the taxonomy as well as other biological aspects of tuna species. Kannan *et al.* (2013 c; 2013 d) recorded twostripe goby (*Valenciennea helsdingenii*) and striated fusilier (*Caesio striata*) from the Gulf of Mannar which is the first record of its range extension from the known range within the Indian Ocean.

The present systematic list of 1182 species of fin fishes of the Gulf of Mannar is one of the prerequisites for the biodiversity conservation of the renewable resources which provides the livelihood for thousands of fishermen families residing in the coastal villages of GOMBR. For a meaningful study biodiversity loss, the knowledge of the natural history of the species is necessary and this in turn can be acquired by the correct identification of species. This assumes greater importance in tropical seas where, a multitude of closely related and morphologically similar species occur (Abraham *et al.*, 2011). The role of taxonomy, species list and proper identification cannot be overlooked in the studies of population dynamics and biodiversity conservation of GOME. The present results are also a step toward understanding the bewildering biodiversity that characterizes the tropical seas.

This checklist of fishes with scientific names organized within a classification system will enhance the information on each species and provide more information to the stakeholders. This also has enormous value as it provides basic information required for inventory, conservation and sustainable use of

biodiversity of GOME. This checklist is a first step towards generating a comprehensive list of fish species from this ecosystem and will be updated regularly as new species/distributions are recorded.

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