

2007

Check List of Deep Sea Fishes



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Check List of Deep Sea Fishes in the Southeast Asia Waters

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Under the ASEAN-SEAFDEC program on the Deep Sea Fisheries Resources Exploration in the Southeast Asian Waters has been implemented since 2007. The main objectives are to support member countries for better understanding on the existing deep sea fisheries resources in their jurisdiction waters in addition methodology of research works including deep sea samplings techniques. Literature reviews on the deep sea fisheries resources in the Southeast Asian waters is one of the preliminary works in order to check the species composition of all fauna existing in the deep sea areas in the EEZ of member countries.

Based on the existing information such as the deep sea fisheries resources survey in the west coast of Sumatra and Java, Indonesia by RCCF in cooperation with OFCF/Japan and the fisheries resources on the continental slopes in the Andaman Sea by DOF/Thailand in the past 30 years ago, many fauna species particularly fishes and shrimps found from the surveys were listed in this paper. Updated data will be made every year to include various deep sea areas and new species which will be found from the survey by SEAFDEC research vessels.

All of 110 Families of the deep sea species are listed compiling from various documents.

Check lists of the deep sea fishes in the South China Sea and Adjacent Waters

No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
1	ACROPOMATIDAE	Doederleinia	<i>berycooides</i>		80 to 200 m	Western Pacific: Japan to Indonesia and northwestern Australia
		Malakichthys	<i>elegans</i>		165 to 208 m	Western Pacific: known from scattered localities from Japan to Australia. There is an new record from the northeastern Indian Ocean.
		<i>Malakichthys Synagrops</i>	<i>wakiiae japonicus</i>		? to 200 m	Northwest Pacific: Peninsula, Japan to the East China Sea. Indo-West Pacific: East Africa to Japan, south to northern Australia, including the Arafura Sea.
		Synagrops	<i>philippinensis</i>		100 to 500 m	Indo-West Pacific: India east to Japan and south to the Philippines, the Arafura Sea and northern Australia.
		Synagrops	<i>serratospinosus</i>		186 to 220 m	Western Pacific: Suruga Bay, Japan and the Philippines.
		Synagrops	<i>spinosus</i>		176 to 511 m	Western Pacific: Japan and near Hainan, China.
		Alepisaurus	<i>brevirostris</i>	Lancetfishes	87 to 544 m	Lancefishes have been recorded from surface and shallow waters, but have attributes of deep-sea fishes and have been considered bathypelagic by some; longline capture at least 325 m. Feed as carnivores on fishes, cephalopods, tunics, and crustaceans. Synchronous hermaphrodites. Uncommon oceanic fishes taken on tuna longlines, but of no commercial importance.
		Alepisaurus Omosudis	<i>ferox lowii</i>		1,000 to 2,600 m	Circumglobal: In tropical to temperate waters.
		Alepocephalidae	<i>Alepocephalus australis barnardi</i>	Smooth-heads, Slickheads	439 to 1,080 m	Indo-Pacific and Andaman Sea
			<i>bicolor</i>		1240 to 1,300 m	Northwest Pacific: Ryukyu Trough, Japan.
2	ALEPOCEPHALIDAE		<i>longiceps</i>		500 to 2,000 m	Northwest Pacific: Hokkaido, Japan to the East China Sea.
			<i>umbriiceps</i>		600 to 1,100 m	Indian Ocean. Western Pacific: Okinawa Trough and the Philippines.
			<i>erimensis</i>			Northwest Pacific: known only from the Ryukyu Trough.
			<i>retropinnum</i>			Indo-Pacific: including the East China Sea.
		Narcetes	<i>kamoharai</i>		500 to 1,300 m	Western Pacific: Sagami Bay in Japan, East China Sea and the Philippines.
		Rouleina	<i>guentheri</i>		500 to 1,300 m	Circumglobal, tropical and subtropical.
		Rouleina	<i>watasei</i>		455 to 1,460 m	Northwest Pacific: Japan.
		Talismania	<i>antillarum</i>			Northwest Pacific: known only from the Ryukyu Trough.
		Talismania	<i>filamentosa</i>			Western Pacific: Japan and the Philippines.
		Talismania	<i>okimawaeensis</i>			
4	ANACANTHOBATIDAE	Xenodermichthys	<i>nodosus</i>			
		Anacanthobatis	<i>borneensis</i>	Borneo legskate	475 to 835 m	Little known ray recorded from the Indo-Chinese continental slope.

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	ANACANTHOBATIDAE	Anacanthobatis	<i>melanosoma</i>	Blackbodied legskate	900 to 1,100 m	East and South China seas off Hong Kong, Philippines, Taiwan Province of China and southern Japan, but probably more broadly ranging within the area.
5	ANOPLOGASTRIDAE	Anoplogaster	<i>cornuta</i>		2 to 4,932 m	Worldwide in tropical to temperate seas. In the western Atlantic it is also known from the Flemish Cap.
6	ARHYNCHOBATIDAE	Notoraja (<i>Insentiraja</i>)	<i>subtilispinosa</i>	Western looseskin skate	900 to 1,100 m	Occur off northwestern Australia, Indonesia, and the northern Philippines. Likely to be more widely distributed through the Indo-Malay Archipelago.
7	ASTRONESTHIDAE	Astronesthes	<i>boulengeri</i>	Snaggletooths	Mainly mesopelagic adults (some species benthopelagic), juveniles have been caught at the surface at night.	Indo-Pacific: including the Philippine Sea
			<i>chrysophekadion</i>			
			<i>cyanus</i>			
			<i>indicus</i>			
			<i>gemmifer</i>			
			<i>leutkeni</i>			
			<i>lucifer</i>			
			<i>lupina</i>			
			<i>marenssii</i>			
			<i>indopacifica</i>			
			<i>splendidus</i>			
			<i>trifilatus</i>			
			<i>elucentis</i>			
			<i>mononema</i>			
			<i>elucentis</i>			
			<i>pacificus</i>			
			<i>ophistoma</i>			
			<i>capensis</i>			
			<i>microcephalus</i>			
8	ATELEOPODIDAE	Ateleopus	<i>indicus</i>	Jellynoses (tadpole fishes)	Uncommon benthic or benthopelagic fishes usually taken between 200 and 800 m. Little known of general biology. Some species feed on benthic invertebrates. No commercial importance.	
		<i>japonicus</i>				
		<i>sp.</i>				
		<i>microstomus</i>				

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
9	BARBOURISIIDAE	<i>Barbourisia</i>	<i>rufa</i>		120 to 2,000 m	Throughout the world ocean in tropical and temperate latitudes. Western Pacific: Japan to New Caledonia, Australia and New Zealand.
10	BATHYCLUPEIDAE	<i>Bathyclupea</i>	<i>argentea</i>		505 to 677 m	Western Atlantic. Northwest Pacific
11	BATHYGADIDAE	<i>Bathygadus</i>	<i>cotoides</i>	Bathygadids	Benthopelagic deep-sea fishes of upper to middle continental-slope depths of 250 to 2,000 m.	Distribution of family worldwide in tropical to subtropical seas, but absent along Pacific coast of New World.
		<i>Bathygadus</i>	<i>dubiosus</i>			
		<i>Bathygadus</i>	<i>entomelas</i>			
		<i>Bathygadus</i>	<i>spongiceps</i>			
		<i>Bathygadus</i>	<i>subcatus</i>			
		<i>Gadomus</i>	<i>denticulatus</i>			
		<i>Gadomus</i>	<i>filamentosus</i>			
		<i>Gadomus</i>	<i>furvescens</i>			
		<i>Gadomus</i>	<i>introriger</i>			
		<i>Gadomus</i>	<i>magnifilis</i>			
		<i>Gadomus</i>	<i>multifilis</i>			
12	BATHYLAGIDAE	<i>Bathylags</i>	<i>nigripenys</i>	Deepsea smelts	Meso-and bathypelagic. Feed as carnivores on zooplankton. Rare to abundant deep-sea fishes of no commercial importance.	
		<i>Dolicholagus</i>	<i>longirostris</i>			
13	BATHYSAURIDAE	<i>Bathysaurus</i>	<i>ferox</i>	Deepsea lizardfishes	Bottom-dwelling deep-sea fishes of slope and abyss at depths below 1,000 m. Typical deep-sea fishes of no commercial importance.	
		<i>Bathysaurus</i>	<i>mollis</i>			
14	BERYCIDAE	<i>Beryx</i>	<i>splendens</i>		25 to 1,300 m	Indo-Pacific: East Africa (including Saya de Malha Bank to Japan, Hawaii, Australia, and New Zealand. The limited number of records in the western Pacific is doubtless the result of limited fishing effort below 200 m.
15	BOTHIDAE	<i>Chascanopsetta</i>	<i>lugubris</i>		270 to 400 m	Andaman Sea
		<i>Bothus</i>	<i>myriaster</i>		10 to 155 m	Indo-West Pacific: definitely recorded from Inhambane, Mozambique, throughout the Indian Ocean to Java, Sumatra, Viet Nam, Philippines, Taiwan, South Korea, Japan, and Lord Howe Island.
		<i>Chascanopsetta</i>	<i>lugubris</i>		270 to 400	Andaman Sea

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
16	CAPROIDAE	<i>Antigonia</i>	<i>rubicunda</i>		50 to 900 m	Worldwide in subtropical and tropical oceans. Indo-West Pacific: Japan to Australia. Andaman Sea
		<i>Antigonia</i>	<i>rubescens</i>	Boardfish	260 to 270 m	
		<i>Antigonia</i>	<i>capros</i>		50 to 900 m	
		<i>Caproidea</i>	sp.			
17	CARANGIDAE	<i>Carangoides</i>	sp.			
18	CARCHARHINIDAE	<i>Carcharhinus</i>	sp.			
19	CENTROMIMIDAE	<i>Centromimidae</i>	sp.			
20	CENTROLOPHIDAE	<i>Psenopsis</i>	<i>obscura</i>	Obscure driftfish	reportedly taken in depths of 200 to 800 m	Molucca Passage in Indonesia, as well as the Indian Ocean (Andaman Islands)
		<i>Psenopsis</i>	<i>anomala</i>		0 to 370 m	Western Pacific: Japan and the East China Sea. Reported from Hong Kong.
		<i>Hyperoglyphe</i>	<i>japonica</i>		150 to 400 m	Northwest Pacific: central and southern Japan. Larvae found in Taiwan Strait.
21	CENTROPHORIDAE	<i>Centrophorus</i>	<i>moluccensis</i>		125 to 823 m	Western Indian Ocean: Western Pacific: Japan (Okinawa), Indonesia (Amboin), Philippines, Australia, New Hebrides, and New Caledonia.
		<i>Deania</i>	<i>calcea</i>		60 to 1,490 m	Western Pacific: southern Honshu in Japan, southern Australia, New Zealand. Occurrence in the Western Central Pacific uncertain.
		<i>Deania</i>	<i>histricosa</i>		600 to 1,000 m	Northeast Atlantic: Madeira. Northwest Pacific: Japan.
22	CEPOLIDAE	<i>Owstonia</i>	sp.			
23	CHAULIODONTIDAE	<i>Chauliodus</i>	<i>barbatus</i>	Viperfishes	Meso-to bathypelagic, to a maximum depth of 2,800 m, in open ocean; juveniles undergo vertical migration to near surface at night.	
		<i>Chauliodus</i>	<i>danae</i>		473 to 2,800 m	Warm and temperate parts of all oceans. Northern Indian Ocean, Andaman Sea, Eastern Sea, North of the equator.
		<i>Chauliodus</i>	<i>dentatus</i>		25 to 4,390 m	
		<i>Chauliodus</i>	<i>sloani</i>			
		<i>Chauliodus</i>	<i>macouni</i>			
24	CHAUNACIDAE	<i>Chaunax</i>	<i>abeii</i>		90 to 500 m	Western Pacific: southern Japan. More recent works report its occurrence in Taiwan and Malaysia.
		<i>Chaunax</i>	<i>tosaensis</i>			Northwest Pacific: southern Japan to the East China Sea

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
25	CHIMAERIDAE	Chimaera	<i>phantasma</i>	Silver chimaera	90 to 540 m	Caught with bottom trawls, utilization uncertain in the area but utilized for fish balls (Kamaboko) in Japan. Western Pacific from Japan, Korea, China, Taiwan Province of China, and Philippines. The Philippine representative needs confirmation to species.
		<i>Hydrolagus</i>	<i>ogilbyi</i>		400 to 1,100	Eastern Indian Ocean and Southwest Pacific: endemic to Australia.
		<i>Hydrolagus</i>	<i>deani</i>	Philippine chimaera	469 to 770 m	Known only from the Philippines (Luzon)
26	CHIASMODONTIDAE	Chiastodon	<i>niger</i>		? to 2,745 m	Indian and Pacific: broadly distributed in tropical and subtropical waters.
	CHIASMODONTIDAE	<i>Pseudoscopeus</i>	<i>sagamianus</i>		200 to 1,700 m	
27	CORYPHAOIDAE	<i>Coelorhynchus</i>	<i>argenteatus</i>	Rat-tail	270 to 460 m	Andaman Sea
		<i>Coelorhynchus</i>	<i>macrorhynchus</i>		270 to 460 m	Indo-West Pacific, South China Sea
		<i>Coelorhynchus</i>	<i>radcliffei</i>		270 to 460 m	
		<i>Malacoccephalus</i>	<i>laevis</i>		250 to 300 m	
28	CHLOROPHTHALMIDAE	<i>Chlorophthalmus</i>	<i>acutifrons</i>	Greeneyes	Benthic or benthopelagic outer shelf and slope fishes. Feed as carnivores on bottom-dwelling invertebrates. Synchronous hermaphrodites. Moderately common deep-sea fishes of some commercial importance in Mediterranean as fresh fish and in eastern Atlantic for fish meal.	
		<i>Chlorophthalmus</i>	<i>agassizii</i>			
		<i>Chlorophthalmus</i>	<i>albatrossis</i>			
		<i>Chlorophthalmus</i>	<i>albimaculatus</i>			
		<i>Chlorophthalmus</i>	<i>bicornis</i>			
		<i>Chlorophthalmus</i>	<i>corniger</i>			
		<i>Chlorophthalmus</i>	<i>legandi</i>			
		<i>Chlorophthalmus</i>	<i>nigromarginatus</i>			
		<i>Chlorophthalmus</i>	<i>oblongus</i>			
		<i>Chlorophthalmus</i>	<i>acutifrons</i>			
		<i>Coloconger</i>	<i>japonicus</i>	Colocongrid	200 to 950 m	Western Pacific: southern Japan to the Philippines.
29	COLOCONGRIDAE	<i>Coloconger</i>			live in fairly deep water, approximately 300 to 1,000 m.	Indo-West Pacific, South China Sea.
		<i>Coloconger</i>	<i>Coloconger</i>			
30	CONGRIDAE	<i>Acronycteris</i>	<i>nezumi</i>			Western Pacific: Japan and the South China Sea.
		<i>Ariosoma</i>	<i>meeki</i>			

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	CONGRIDAE	Gnathophis Gnathophis Rhechias Bathycongrus	<i>nystromi</i> <i>xenica</i> <i>retroflecta</i> <i>retroflectus</i>		250 to 355 m 150 to 450 m 150 to 450 m	Western Pacific: Japan to the Philippines. Western Pacific: Japan to the Philippines.
31	CYNOGLOSSIDAE	Sympurus	<i>hondoensis</i>		390 to 815 m	Northwest Pacific: probably endemic to deep waters off the southern Japanese Archipelago.
		Sympurus	<i>novemfasciatus</i>			Northwest Pacific: Taiwan.
		Sympurus	<i>strictus</i>		392 to 494 m	Indo-Pacific: off Delagoa Bay (Mozambique), Japan, Philippines and Hawaii.
32	DERICHTHYIDAE	Cynoglossus	sp.	serpentinus	Longneck eels	They spend their entire lives in the open ocean; adults live at depths of several hundred meters.
		Derichthys				
		Nessorhamphus	<i>danae</i>			
		Nessorhamphus	<i>ingolfianus</i>			
33	DIACANTHIDAE	<i>Idiacanthus</i>	<i>fasciola</i>		0 to 2,000 m	Indo-Pacific: across the Indian Ocean.
34	DICERATIIDAE	Phrynichthys	sp.			
		Diceratiidae	sp.			
35	DIRETMIDAE	<i>Diretmoides</i>	<i>pauciradiatus</i>		0 to 600 m	Indonesia, South China Sea, and Kyushu-Palau Ridge (Moore, pers. comm.).
		<i>Diretmoides</i>	<i>argentatus</i>			
36	EPIGONIDAE	<i>Epigonus</i>	<i>atherinoides</i>		100 to 1,200 m	Pacific Ocean: Philippines and Kyushu-Palau Ridge, near the Hawaiian Islands and the Sata y Gomez Ridge.
		<i>Epigonus</i>	<i>denticulatus</i>		130 to 830 m	Western Pacific: southwest coast of Japan, southern Australia and eastern New Zealand. Central Pacific: Hawaiian Ridge.
37	ETMOPTERIDAE	<i>Etmopterus</i>	<i>lucifer</i>		150 to 1,250 m	Western Pacific: Japan to New Zealand. Southeast Pacific: Amber Seamount.
38	EVERMANNELLIDAE	Coccocella	<i>atlantica</i>	Sabertooth fishes	Mesopelagic, with most adults from 400 to 800 m and probable vertical migrators.	Synchronous hermaphrodites. Uncommon deep-sea fishes of no commercial importance.
		Coccocella	<i>atrata</i>			
			<i>indica</i>			
			<i>megalops</i>			
			<i>normalops</i>			

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
39	GEMPYLIDAE	Gobiidae Diplospinus	sp. <i>mullistratus</i>		50 to 1,000 m	Atlantic, Indian and Pacific: in central water masses. Rather rare, but relatively abundant in the northwest and southeast Atlantic and southeast Pacific.
		<i>Lepidocybium</i>	<i>flavobrunneum</i>		200 to 1,100 m	Tropical and temperate seas of the world, but probably not occurring in the northern Indian Ocean.
		<i>Neopinnula</i>	<i>orientalis</i>		200 to 570 m	Indo-West Pacific: off East Africa (Kenya to Natal, South Africa), Saya de Malha Bank, Arabian Sea; eastern North Indian Ocean, Flores, Banda, Arafura Sea, Sulawesi and Sulu seas, off Ryukyu Islands and southern Japan. Reported from Fiji and Tuvalu.
		<i>Nesiarchus</i>	<i>nasutus</i>		200 to 1,200 m	Probably distributed worldwide in tropical and subtropical seas except in eastern Pacific and northern Indian oceans. Large-sized individuals stray in cold-temperate waters off Iceland, Norway, northern Japan and southern New Zealand.
		<i>Promethichthys</i>	<i>prometheus</i>	Roudi escolar	80 to 800 m	Tropical and warm temperate waters of all oceans, but absent from eastern Pacific except at Salay Gomez Ridge.
		<i>Ruveitus</i>	<i>prefiosus</i>		100 to 800 m	Widely distributed in tropical and temperate seas of the world.
		<i>Rexea</i>	<i>prometheoides</i>	Royal escolar		Indo-West Pacific from East Africa to southern Japan and Queensland, Australia.
		<i>Diplospinus</i> <i>Gempylus</i>	<i>mullistratus</i> <i>serpens</i>	Striped escolar Snake mackerel	Mesopelagic, oceanic at depths to 1,000 m Strictly oceanic, epipelagic and mesopelagic from the surface to depths of 200 m and perhaps deeper.	Central water masses of the Atlantic, Indian, and Pacific oceans
		<i>Nealotus</i>	<i>tripes</i>	Black snake mackerel	Mesopelagic from the surface to a depth of about 600 m	tropical and temperate waters of all oceans.
		<i>Neopinnula</i>	<i>orientalis</i>	Sackfish	Benthopelagic on the upper slopes at depths between 200 and 570 m.	Indian and western Pacific oceans from East Africa to southern Japan and the Philippines.
		<i>Nesiarchus</i>	<i>nasutus</i>	Black gemfish	200 to 1,200 m	Worldwide in tropical and subtropical seas, large-sized strays are found in temperate waters, Philippines waters, Sulu Sea, Indonesian waters.
		<i>Rexea</i>	<i>bengalensis</i>	Bengal escolar	Benthopelagic at depths of 143 to 820 m.	The Indian and western Pacific oceans from East Africa to southern Japan and northeastern Australia.
		<i>Ruveitus</i>	<i>prefiosus</i>	Olfish	Oceanic, benthopelagic on continental slope and sea rises at depths of 200 to 700 m.	Widely distributed in tropical and temperate waters of the world.
		<i>Thyrsitoides</i>	<i>marleyi</i>	Black snoek	Mesobenthopelagic, down to depths of 400 m or more.	tropical Indian and western Pacific oceans from East Africa to southern Japan, New Caledonia, and western Australia.
40	GONOSTOMATIDAE	<i>Cyclothona</i> <i>Cyclothona</i>	<i>atraia</i> <i>braueri</i>	Bristlemouths	Mesopelagic and bathypelagic, oceanic.	Gonostomatids are delicate and the skin and photophores are frequently damaged or lost during capture in commercial deep-water trawls.

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	GONOSTOMATIDAE	Cyclothonae	<i>kobayashii</i>			
		<i>Cyclothonae</i>	<i>microdon</i>			
		<i>Cyclothonae</i>	<i>pallida</i>			
		<i>Cyclothonae</i>	<i>parapallida</i>			
		<i>Cyclothonae</i>	<i>pseudopallida</i>			
		<i>Cyclothonae</i>	<i>signata</i>			
		<i>Cyclothonae</i>	<i>australis</i>			
		<i>Diplophos</i>	<i>orientalis</i>			
		<i>Diplophos</i>	<i>pacificus</i>			
		<i>Diplophos</i>	<i>taenia</i>			
		<i>Diplophos</i>	<i>atlanticum</i>			
		<i>Gonostoma</i>	<i>bathyphilum</i>			
		<i>Gonostoma</i>	<i>ebelingi</i>			
		<i>Gonostoma</i>	<i>elongatum</i>			
		<i>Gonostoma</i>	<i>gracile</i>			
		<i>Gonostoma</i>	<i>longipinnis</i>			
		<i>Manducus</i>	<i>greyi</i>			
		<i>Margretha</i>	<i>obtusirostra</i>			
		<i>Triplophos</i>	<i>hemmingi</i>			
		<i>Sigmops</i>	<i>elongatum</i>			
		<i>Sigmops</i>	<i>gracile</i>			
41	GRAMMICOLEPIDIDAE	<i>Xenolepidichthys</i>	<i>dalglesishi</i>		0 to 4,389 m	
42	HALOSAURIDAE	<i>Aldrovandia</i>	<i>affinis</i>	Halosaurs	200 to 885 m	
		<i>Aldrovandia</i>	<i>mediorostris</i>			
		<i>Aldrovandia</i>	<i>phalacra</i>			
		<i>Halosaurus</i>	<i>ridgwayi</i>			
43	HEXANCLIDAE	<i>Heptanchias</i>	<i>perio</i>	Seven-gill shark	0 to 1,000 m	
		<i>Hexanagon</i>	<i>longirostra</i>			
44	HIMANTOLOPHIDAE	<i>Himantolophus</i>	sp.			
45	HISPIDOBERYCIDAE	<i>Hispidoberyx</i>	<i>ambagiosus</i>		560 to 1,019 m	
						Eastern Indian Ocean and Northwest Pacific: off Sumatra and Java in the eastern Indian Ocean and in the South China Sea.

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	Subfamily MACROURODINAE	Macrourodes	<i>inflaticeps</i>			
		Squalogadus	<i>modificatus</i>			
	Subfamily MACROURINAЕ	Caelorinchus				
		Caelorinchus				
		Caelorinchus	<i>acutirostris</i>			
		Caelorinchus	<i>argentatus</i>			
		Caelorinchus	<i>argus</i>			
		Caelorinchus	<i>carinifer</i>			
		Caelorinchus	<i>celenostomus</i>			
		Caelorinchus	<i>cingulatus</i>			
		Caelorinchus	<i>commutabilis</i>			
		Caelorinchus	<i>cylindricus</i>			
		Caelorinchus	<i>dorsalis</i>			
		Caelorinchus	<i>kamoharai</i>			
		Caelorinchus	<i>termadeucus</i>			
		Caelorinchus	<i>macrolepis</i>			
		Caelorinchus	<i>macrorhynchus</i>			
		Caelorinchus	<i>maculatus</i>			
		Caelorinchus	<i>melanobranchus</i>			
		Caelorinchus	<i>parallelus</i>			
		Caelorinchus	<i>platyrhynchus</i>			
		Caelorinchus	<i>quincunciatus</i>			
		Caelorinchus	<i>radcliffei</i>			
		Caelorinchus	<i>semaphoreus</i>			
		Caelorinchus	<i>sereti</i>			
		Caelorinchus	<i>sexradiatus</i>			
		Caelorinchus	<i>sticheropachevi</i>			
		Caelorinchus	<i>smithi</i>			
		Caelorinchus	<i>spathulatus</i>			
		Caelorinchus	<i>spinifera</i>			
		Caelorinchus	<i>thompsoni</i>			
		Caelorinchus	<i>tricellatus</i>			
		Caelorinchus	<i>velifer</i>			
		Caelorinchus	<i>weberi</i>			
		Cetonus	<i>globoiceps</i>			
		Coryphaenoides	<i>aequatorialis</i>			
		Coryphaenoides	<i>asperrillus</i>			
		Coryphaenoides	<i>camarus</i>			
		Coryphaenoides	<i>dubius</i>			
		Coryphaenoides	<i>macrolophus</i>			
		Coryphaenoides	<i>microps</i>			
		Coryphaenoides	<i>orthogrammus</i>			

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
53	MACRUROCYTTIDAE	<i>Zenion</i>	<i>Macrurocyttidae</i>	<i>japonicum</i> sp.	200 to 400 m	Western Pacific: Japan, Hong Kong and Australia.
54	MAELANONIIDAE	<i>Melanonus</i>		<i>zugmayeri</i>	100 to 3,000 m	Indian and Pacific: in tropical and temperate waters but rare in the temperate northeast Atlantic.
55	MALACOSTEIDAE	<i>Bregmaceros</i>		sp.		
		<i>Aristomias</i>	<i>grimaldii</i>	Loosejaws	Meso-to bathypelagic adults, at depths to 4,000 m.	
		<i>Aristomias</i>	<i>lunifer</i>			
		<i>Aristomias</i>	<i>polydactylus</i>			
		<i>Aristomias</i>	<i>tittmanni</i>			
		<i>Aristomias</i>	<i>xenostoma</i>			
		<i>Aristostomias</i>	<i>polydactylus</i>			
		<i>Malacosteius</i>				
		<i>Malacosteius</i>	<i>indicus</i>			
		<i>Photostomias</i>	<i>niger</i>			
		<i>Photostomias</i>	<i>guentheri</i>			
56	MELAMPHAIIDAE	<i>Melamphaes</i>	<i>longiveilis</i>		0 to 1,500 m	
		<i>Melamphaes</i>	<i>lugubris</i>		50 to 3,400 m	
		<i>Scopeloberyx</i>	<i>robustus</i>		340 to 2,100 m	
		<i>Scopelogadus</i>	<i>mizolepis</i>		200 to 2,000 m	
57	MELANOSTOMIIDAE	<i>Bathophilus</i>	<i>abarbatus</i>	Scaleless dragonfishes	Mainly mesopelagic, occurring in the upper 1,000 m as adults, some species undergoing vertical migration to near surface at night. Specimens have been caught by open nets to depths of up to 4,500 m. Some species apparently benthopelagic as adults.	

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	MELANOSTOMIIDAE					
		<i>Bathophilus</i>	<i>brevis</i>			
		<i>Bathophilus</i>	<i>digitalis</i>			
		<i>Bathophilus</i>	<i>filleri</i>			
		<i>Bathophilus</i>	<i>longipinnis</i>			
		<i>Bathophilus</i>	<i>nigerinus</i>			
		<i>Bathophilus</i>	<i>pawneei</i>			
		<i>Eustomias</i>	<i>appositus</i>			
		<i>Eustomias</i>	<i>achinius</i>			
		<i>Eustomias</i>	<i>australeensis</i>			
		<i>Eustomias</i>	<i>bifilis</i>			
		<i>Eustomias</i>	<i>bimarginotoides</i>			
		<i>Eustomias</i>	<i>bulbiformatus</i>			
		<i>Eustomias</i>	<i>cancriensis</i>			
		<i>Eustomias</i>	<i>cirritus</i>			
		<i>Eustomias</i>	<i>crossotus</i>			
		<i>Eustomias</i>	<i>dendriticus</i>			
		<i>Eustomias</i>	<i>enbarbatus</i>			
		<i>Eustomias</i>	<i>gibbsi</i>			
		<i>Eustomias</i>	<i>ioani</i>			
		<i>Eustomias</i>	<i>macronema</i>			
		<i>Eustomias</i>	<i>macrurus</i>			
		<i>Eustomias</i>	<i>melanostigma</i>			
		<i>Eustomias</i>	<i>orientalis</i>			
		<i>Eustomias</i>	<i>pacificus</i>			
		<i>Eustomias</i>	<i>perplexus</i>			
		<i>Eustomias</i>	<i>sattelleei</i>			
		<i>Eustomias</i>	<i>schmidti</i>			
		<i>Eustomias</i>	<i>sullivensis</i>			
		<i>Eustomias</i>	<i>teuthidopsis</i>			
		<i>Eustomias</i>	<i>vittata</i>			
		<i>Flagellostomias</i>	<i>boureei</i>			
		<i>Leptostomias</i>	<i>gladiator</i>			
		<i>Leptostomias</i>	<i>gracilis</i>			
		<i>Leptostomias</i>	<i>macronema</i>			
		<i>Melanostomias</i>	<i>globulifer</i>			
		<i>Melanostomias</i>	<i>melanops</i>			
		<i>Melanostomias</i>	<i>paucialternatus</i>			
		<i>Melanostomias</i>	<i>pauciradius</i>			
		<i>Melanostomias</i>	<i>pollicifer</i>			
		<i>Melanostomias</i>	<i>stewarti</i>			
		<i>Melanostomias</i>	<i>tenaculaatus</i>			
		<i>Melanostomias</i>	<i>valdiviae</i>			
		<i>Melanostomias</i>	<i>wierecki</i>			

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	Opostomiidae	<i>micriplus</i>				
	Pachystomiidae	<i>microdon</i>				
	Photonectidae	<i>albipennis</i>				
	Photonectidae	<i>braueri</i>				
	Photonectidae	<i>caeruleoocellata</i>				
	Photonectidae	<i>gracilis</i>				
	Photonectidae	<i>margarita</i>				
	Photonectidae	<i>mirabilis</i>				
	Photonectidae	<i>panvinimanus</i>				
	Photonectidae	<i>dentex</i>				
	Photonectidae	<i>micriceps</i>				
58	MICROSTOMATIDAE	<i>Nansenia</i>	<i>ardesiaca</i>	Microstomatids	Meso-and perhaps bathypelagic.	Uncommon deep-sea fishes of no commercial importance.
		<i>Xenophtalmichthys</i>	<i>pelagica</i>			
		<i>danæae</i>				
		sp.				
		<i>Lipolegus</i>				
		<i>Dolicholagus</i>				
		<i>longirostris</i>				
		sp.				
59	MORIDAE	<i>Halargyreus</i>	sp.	Moras	Shallow reefs to deep sea, a few species bathypelagic but most bathypelagic. Distribution of family worldwide; a few species very broadly distributed.	A few species of commercial importance in temperate southern-hemisphere waters.
		<i>Antimora</i>	<i>rostrata</i>			
60	MYCTOPHIDAE	<i>Gadella</i>	<i>jordani</i>			
		<i>Gadella</i>	<i>norops</i>			
		<i>Laemonema</i>	<i>rhodochir</i>			
		<i>Physiculus</i>	<i>longifilis</i>			
		<i>Physiculus</i>	<i>luminosa</i>			
		<i>Physiculus</i>	<i>nigrescens</i>			
		<i>Physiculus</i>	<i>peregrinus</i>			
		<i>Physiculus</i>	<i>roseum</i>			
		<i>Physiculus</i>	<i>therosideros</i>			
		<i>Benthosema</i>	<i>tibulatum</i>	Lanternfishes	Mostly mesopelagic, few bathy- or benthopelagic; most species undertake vertical migration to upper 200 m at night. Feeding mode as opportunistic carnivores on crustaceans and rarely pelagic molluscs (<i>Centrobranchus</i>) and small fishes.	Very common oceanic fishes, making up greatest biomass in mesopelagic zone. Few species of some economic importance in a few areas (Electrona in Antarctic, Lampanyctodes in South Africa, and Benthosema in the Gulf of Oman and Persian Gulf) for fish meal, oil, and silage, representing a potentially important fishery resource. Research is required to determine if lanternfishes can be utilized in the Western Central Pacific.

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	MYCTOPHIDAE					
	Benthosema	<i>pterotum</i>				
	Benthosema	<i>suborbitalis</i>				
	Bolinichthys	<i>distofax</i>				
	Bolinichthys	<i>indicus</i>				
	Bolinichthys	<i>longipes</i>				
	Bolinichthys	<i>nikolayi</i>				
	Bolinichthys	<i>photothorax</i>				
	Bolinichthys	<i>pyrosobolus</i>				
	Bolinichthys	<i>andreae</i>				
	Centrobranchus	<i>nigroocellatus</i>				
	Ceratoscopelus	<i>warmingii</i>				
	Diaphus	<i>agassizii</i>				
	Diaphus	<i>aliciae</i>				
	Diaphus	<i>anderseni</i>				
	Diaphus	<i>bertheleini</i>				
	Diaphus	<i>brachycephalus</i>				
	Diaphus	<i>burtoni</i>				
	Diaphus	<i>chrysorhynchus</i>				
	Diaphus	<i>caeruleus</i>				
	Diaphus	<i>dahlgreni</i>				
	Diaphus	<i>dehaveni</i>				
	Diaphus	<i>diadematus</i>				
	Diaphus	<i>diademophilus</i>				
	Diaphus	<i>drachmanni</i>				
	Diaphus	<i>dumerili</i>				
	Diaphus	<i>erhardi</i>				
	Diaphus	<i>faustinoi</i>				
	Diaphus	<i>fragilis</i>				
	Diaphus	<i>fulgens</i>				
	Diaphus	<i>garmani</i>				
	Diaphus	<i>handi</i>				
	Diaphus	<i>impostor</i>				
	Diaphus	<i>jensenii</i>				
	Diaphus	<i>lucidus</i>				
	Diaphus	<i>lucifrons</i>				
	Diaphus	<i>luekenii</i>				
	Diaphus	<i>malayanus</i>				
	Diaphus	<i>megalops</i>				
	Diaphus	<i>metopocampus</i>				
	Diaphus	<i>mollis</i>				
	Diaphus	<i>nielseni</i>				
	Diaphus	<i>ostenfeldi</i>				
	Diaphus	<i>parri</i>				

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	MYCTOPHIDAE					
		<i>Diaphus</i>	<i>perspicillatus</i>			
		<i>Diaphus</i>	<i>philippii</i>			
		<i>Diaphus</i>	<i>problematicus</i>			
		<i>Diaphus</i>	<i>regani</i>			
		<i>Diaphus</i>	<i>richardsoni</i>			
		<i>Diaphus</i>	<i>schmidtii</i>			
		<i>Diaphus</i>	<i>signatus</i>			
		<i>Diaphus</i>	<i>splendidus</i>			
		<i>Diaphus</i>	<i>suborbitalis</i>			
		<i>Diaphus</i>	<i>termophilus</i>			
		<i>Diaphus</i>	<i>thiollerei</i>			
		<i>Diaphus</i>	<i>umbroculus</i>			
		<i>Diaphus</i>	<i>watasei</i>			
		<i>Diaphus</i>	<i>whiteyi</i>			
		<i>Diaphus</i>	<i>wisneri</i>			
		<i>Diogenichthys</i>	<i>atlanticus</i>			
		<i>Diogenichthys</i>	<i>laternatus</i>			
		<i>Diogenichthys</i>	<i>panurgus</i>			
		<i>Electrona</i>	<i>risso</i>			
		<i>Gonichthys</i>	<i>venetus</i>			
		<i>Hygophum</i>	<i>hygomi</i>			
		<i>Hygophum</i>	<i>proximum</i>			
		<i>Hygophum</i>	<i>reinhardti</i>			
		<i>Idiolychnus</i>	<i>urotampus</i>			
		<i>Lampadena</i>	<i>anomala</i>			
		<i>Lampadena</i>	<i>luminosa</i>			
		<i>Lampadena</i>	<i>urophaeos</i>			
		<i>Lampanyctus</i>	<i>alatus</i>			
		<i>Lampanyctus</i>	<i>ater</i>			
		<i>Lampanyctus</i>	<i>festivus</i>			
		<i>Lampanyctus</i>	<i>hubbsi</i>			
		<i>Lampanyctus</i>	<i>intricarius</i>			
		<i>Lampanyctus</i>	<i>lineatus</i>			
		<i>Lampanyctus</i>	<i>macropterus</i>			
		<i>Lampanyctus</i>	<i>niger</i>			
		<i>Lampanyctus</i>	<i>nobilis</i>			
		<i>Lampanyctus</i>	<i>phototonotus</i>			
		<i>Lampanyctus</i>	<i>steinbecki</i>			
		<i>Lampanyctus</i>	<i>teniformis</i>			
		<i>Lampanyctus</i>	<i>turneri</i>			
		<i>Lobianchia</i>	<i>gemellarii</i>			
		<i>Loveina</i>	<i>rara</i>			
		<i>Myctophum</i>	<i>asperum</i>			

(Continues)

Continued

No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
61	MURAENESSOCIDAE					
	MYCTOPHIDAE	<i>Myctophum</i>	<i>aurolateratum</i>			
		<i>Myctophum</i>	<i>brachygnathum</i>			
		<i>Myctophum</i>	<i>fissurovi</i>			
		<i>Myctophum</i>	<i>lunatum</i>			
		<i>Myctophum</i>	<i>nitidulum</i>			
		<i>Myctophum</i>	<i>obtusirostre</i>			
		<i>Myctophum</i>	<i>selenops</i>			
		<i>Myctophum</i>	<i>spinosum</i>			
		<i>Notoluxichthys</i>	<i>valdiviae</i>			
		<i>Natoscopelus</i>	<i>caudispinosus</i>			
		<i>Natoscopelus</i>	<i>resplendens</i>			
		<i>Scopelopsis</i>	<i>multipunctatus</i>			
		<i>Symbolophorus</i>	<i>evermanni</i>			
		<i>Taeniuichthys</i>	<i>bathyphilus</i>			
		<i>Taeniuichthys</i>	<i>minimus</i>			
		<i>Taeniuichthys</i>	<i>paurolychnus</i>			
		<i>Triphoturus</i>	<i>nigrescens</i>			
		<i>Gaviaiceps</i>	<i>taeniola</i>			
		<i>Muraenesox</i>	sp.			
		<i>Oxyconger</i>	<i>leptognathus</i>			
62	MYXINIDAE	<i>Eptatretus</i>	sp.			
63	NEMICHTHYIDAE	<i>Avocettina</i>	<i>paecipora</i>			
		<i>Avocettina</i>	<i>acuticeps</i>			
				Snipe eels		
				live in the mid waters of the world ocean, adults are found at depths of several hundred to more than 2,000 m They are of no importance to fisheries.		
64	NEMIPTERIDAE	<i>Avocettina</i>	<i>infans</i>			
		<i>Avocettina</i>	<i>paecipora</i>			
		<i>Labichthys</i>	<i>carinatus</i>			
		<i>Nemichtyhs</i>	<i>cuvirostris</i>			
		<i>Nemichtyhs</i>	<i>scolopaceus</i>			
65	NEOSCOPELIDAE	<i>Parascopelopsis</i>	<i>tosensis</i>			
		<i>Neoscopelus</i>	<i>macrolepidotus</i>	<i>Neoscopelids</i>	Meso-and bathypelagic (Scopelengys) or benthopelagic. Feeding modes unknown. Rare (Solenomer) or uncommon deep-sea fishes of no commercial importance.	
		<i>Neoscopelus</i>	<i>microchir</i>		250 to 700 m	

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
66	NETTASTOMATIDAE	<i>Neoscopelus</i>	<i>porosus</i>	Lantern fish	300 to 1,120 m	Andaman Sea
		<i>Neoscopelus</i>	<i>macrolepidotus</i>			
		<i>Neoscopelus</i>	<i>microchir</i>			
		<i>Neoscopelus</i>	<i>porosus</i>			
		<i>Scopelengys</i>	<i>tristis</i>			
		<i>Sollivomer</i>	<i>arenidens</i>			
		<i>Nettastoma</i>	<i>parviceps</i>		60 to 1,190 m	Indo-Pacific: bitemperate distribution, recorded from Japan, Hawaii, eastern Australia, and southeastern Africa. Southeast Pacific.
		<i>Nettastoma</i>	<i>solitarium</i>		430 to 1,000 m	Indo-West Pacific: Kyushu-Palau Ridge, the Philippines, Australia, and the western Indian Ocean.
		<i>Saurenchelys</i>	<i>fierasfer</i>		415 to 610 m	Western Pacific: Japan and the East China Sea to the South China Sea.
		<i>Venefica</i>	<i>tentaculata</i>			Western Pacific: off northern Honshu and the Sea of Okhotsk off Hokkaido (Japan).
67	NOMEIDAE	<i>Nettastomatidae</i>	sp.			
		<i>Cubiceps</i>	<i>whiteleggi</i>		Most common in 300 to 450 m	Probably widely distributed in warm-temperate and tropical parts of the Indian Ocean (excluding the Red Sea) and the Indo-West Pacific from Japan to central eastern Australia. Potentially valuable food fish in warm-temperate and tropical parts of Indo-Pacific.
		<i>Cubiceps</i>	<i>baxteri</i>	Black cigarfish		Atlantic and Pacific: in tropical and subtropical waters. A single record to date from the Indian Ocean.
		<i>Cubiceps</i>	<i>kotlyari</i>	Kotlyars cigarfish	Collected from off Java, the Philippines, and northwestern Australia by trawl nets in depths of 600 to 725 m.	
		<i>Cubiceps</i>	<i>pauciradiatus</i>		250 to 800 m	Eastern Central Pacific: USA.
		<i>Cubiceps</i>	<i>squamiceps</i>			Indo-West Pacific: probably occurring throughout the Indian Ocean, extending to Japan.
		<i>Psenes</i>	<i>araurensis</i>		0 to 40 m	Atlantic, Indian and Pacific: in tropical waters
		<i>Psenes</i>	<i>maculatus</i>		0 to 300 m	
		<i>Notacanthus</i>	<i>abbotii</i>	Spiny eels		Western Pacific: Suruga Bay and the Kumanonada Sea in Japan to the Philippines.
		<i>Notacanthus</i>	<i>chemnitzi</i>			
68	NOTACANTHIDAE	<i>Notacanthus</i>	<i>sexspinis</i>			
		<i>Notacanthus</i>	<i>challengeri</i>			

(Continues)

Continued

No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
69	NOTOSUDIDAE	Ahilesaurus	<i>berryi</i>	Waryfishes	Meso-and bathypelagic, or meso-, bathy-and benthopelagic, or insular epipelagic. Feed as zooplankton pickers and carnivores, with copepods in to macks of juveniles and larger crustaceans and midwater fishes eaten by adults. Synchronous hermaphrodites.	Western Indian and Western Pacific; in tropical and subtropical waters.
			<i>brevis</i>			
			<i>gibbosi</i>			
			<i>herwigi</i>			
			<i>hoehti</i>			
			<i>meadi</i>			
			<i>smithii</i>			
					50 to 815 m	
					? to 300 m	
					457 to 549 m	
					439 to 1,400 m	
70	OCCOCEPHALIDAE	Scopelosaurus	<i>mauli</i>		Meso-and bathypelagic. Feed as carnivores on midwater fishes and squids. The very rare mature specimens are synchronous hermaphrodites (Nielsen and Jespersen, 1986). Uncommon deep-sea fishes of no commercial importance.	Western Pacific: off Japan and the East China Sea, off the Philippines, Taiwan, Celebes to New Caledonia.
		<i>Coelophrys</i>	<i>breviceaudata</i>			
		<i>Halicmetus</i>	<i>ruber</i>			
		<i>Haleiutopsis</i>	<i>micropa</i>			
		<i>Malacocephalidae</i>	sp.			
		<i>Ogcocephalidae</i>	sp.			
71	OMOSUDIDAE	Omosudis	<i>lowei</i>	Omosudid	Meso-and bathypelagic. Feed as carnivores on midwater fishes and squids. The very rare mature specimens are synchronous hermaphrodites (Nielsen and Jespersen, 1986). Uncommon deep-sea fishes of no commercial importance.	Indo-Pacific: Arabian and Andaman seas, Bay of Bengal, Japan, and the Philippines.
72	OPHIIDIIDAE	Cusk eels			With exception of a few species which occur pelagically at great depths, cusk eels are bottom-living, found from shallow waters to a depth of 8,370 m (the depth record for fishes). Oviparous with pelagic larvae. No special larval stage. A single species from the area commercially important.	Indo-West Pacific: South Africa to the Philippines.
	Subfamily BROTULINAE	<i>Brotula</i>	<i>multibarbata</i>			

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	Subfamily BROTULOTAENIINAE	<i>Brotulaenia</i>	<i>nielseni</i>			
	Subfamily OPHIDIINAE	<i>Ophidion</i>	<i>genyopus</i> <i>muraenolepis</i>			
	Subfamily NEOBYTHITINAE					
		<i>Abyssobrotula</i>				
		<i>Acanthonus</i>	<i>armatus</i>			
		<i>Alcockia</i>	<i>rostratus</i>			
		<i>Barathrodemus</i>	<i>nasutus</i>			
		<i>Bassozetus</i>	<i>compressus</i>			
		<i>Bassozetus</i>	<i>elongatus</i>			
		<i>Bassozetus</i>	<i>glutinosus</i>			
		<i>Bassozetus</i>	<i>robustus</i>			
		<i>Bassozetus</i>	<i>n.sp.</i>			
		<i>Bathyonus</i>	<i>caudalis</i>			
		<i>Dicrolene</i>	<i>hubrechti</i>			
		<i>Dicrolene</i>	<i>longimana</i>			
		<i>Dicrolene</i>	<i>multifilis</i>			
		<i>Dicrolene</i>	<i>tristis</i>			
		<i>Enchelybrotula</i>	<i>paucidens</i>			
		<i>Epetriodus</i>	<i>freddyi</i>			
		<i>Eremichthys</i>	<i>remifer</i>			
		<i>Glyptophidium</i>	<i>argenteum</i>			
		<i>Glyptophidium</i>	<i>japonicum</i>			
		<i>Glyptophidium</i>	<i>lucidum</i>			
		<i>Glyptophidium</i>	<i>macropus</i>			
		<i>Glyptophidium</i>	<i>oceaniuum</i>			
		<i>Holomycteronus</i>	<i>aequatoris</i>			
		<i>Honostolus</i>	<i>acer</i>			
		<i>Hoplobrotula</i>	<i>armata</i>			
		<i>Hypopleuron</i>	<i>caninum</i>			
			<i>bunswigi</i>			
			<i>niger</i>			
			<i>bartschi</i>			
			<i>imperator</i>			
			<i>praetor</i>			
			<i>garmani</i>			
			<i>longiceps</i>			
			<i>microlepis</i>			

(Continues)

Continued

No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
		<i>Monomotipus</i>	<i>pallidus</i>			
		<i>Neobythites</i>	<i>bimaculatus</i>			
		<i>Neobythites</i>	<i>bimarginatus</i>			
		<i>Neobythites</i>	<i>fasciatus</i>			
		<i>Neobythites</i>	<i>longiceps</i>			
		<i>Neobythites</i>	<i>longiventralis</i>			
		<i>Neobythites</i>	<i>macrops</i>			
		<i>Neobythites</i>	<i>malayanus</i>			
		<i>Neobythites</i>	<i>neocalledonensis</i>			
		<i>Neobythites</i>	<i>pallidus</i>			
		<i>Neobythites</i>	<i>purus</i>			
		<i>Neobythites</i>	<i>unimaculatus</i>			
		<i>Neobythites</i>	<i>zonatus</i>			
		<i>n.sp.</i>				
		<i>Porogadus</i>	<i>melampепius</i>			
		<i>Porogadus</i>	<i>miles</i>			
		<i>Pycnocraspedum</i>	<i>squamipinne</i>			
		<i>Sirembo</i>	<i>imberbis</i>			
		<i>Sirembo</i>	<i>jerdoni</i>			
		<i>Sirembo</i>	<i>metachroma</i>			
		<i>Spottobrotula</i>	<i>armaculata</i>			
		<i>Tauredophilidium</i>	<i>hextii</i>			
		<i>Typhlonus</i>	<i>nasus</i>			
		<i>Xyelacyba</i>	<i>myersi</i>			
	73	OPISTHOPTOCTIDAE	<i>Dolichopteryx</i>	<i>longipes</i>	Barreleyes	Meso-and bathypelagic. At least 1 species feeds on siphonophores. Rare deep-sea fishes of no commercial importance.
	74	ONEIRODIDAE	<i>Opisthoproctus</i>	<i>grimaldii</i>		
			<i>Opisthoproctus</i>	<i>soleatus</i>		
			<i>Winteria</i>	<i>telescopa</i>		
		<i>Beretta</i>	<i>sp.</i>			
		<i>Chaenophryne</i>	<i>draco</i>			
		<i>Oneirodes</i>	<i>sp.</i>			
	75	OSTRACOBERCIDAE	<i>Ostracoberyx</i>	<i>dorygenys</i>	Spiny cheek	256 to 711 m
			<i>Ostracoberyx</i>	<i>triconis</i>		400 to 410 m
						Indo-West Pacific: Zanzibar, Tanzania and Madagascar to southern Japan and the Philippines and Andaman Sea. Andaman Sea.

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
76	PARALEPIDIDAE	Arcrozenus	rissoi	Barracudinas	Meso-and bathypelagic; rapid swimmers, mostly known from juveniles, with few adults taken. Feed as carnivores on fishes and crustaceans. Synchronous hermaphrodites. Moderately common deep-sea fishes, rarely found in commercial markets.	
		<i>Lestidiops</i>	<i>extrema</i>			
		<i>Lestidiops</i>	<i>indopacifica</i>			
		<i>Lestidiops</i>	<i>jayakari</i>			
		<i>Lestidiops</i>	<i>mirabilis</i>			
		<i>Lestidiops</i>	<i>barracudina</i>	Naked barracudina		
		<i>Lestidium</i>	<i>atlanticum</i>			
		<i>Lestidium</i>				
		<i>Lestidium</i>	<i>prolixum</i>			
		<i>Lestidium</i>	<i>nudum</i>			
		<i>Lestidium</i>	<i>intermedia</i>			
		<i>Lestrolepis</i>	<i>japonica</i>			
		<i>Lestrolepis</i>	<i>luetkeni</i>			
		<i>Lestrolepis</i>	<i>affinis</i>			
		<i>Macroparalepis</i>	<i>danae</i>			
		<i>Macroparalepis</i>	<i>atlantica</i>			
		<i>Magnisudis</i>	<i>indica</i>			
		<i>Magnisudis</i>	<i>prionosa</i>			
		<i>Magnisudis</i>	<i>rissoi</i>			
		<i>Notolepis</i>	<i>brevirostris</i>			
		<i>Paralepis</i>	<i>distans</i>			
		<i>Stemmonosudis</i>	<i>elegans</i>			
		<i>Stemmonosudis</i>	<i>gracilis</i>			
		<i>Stemmonosudis</i>	<i>macrura</i>			
		<i>Stemmonosudis</i>	<i>rothschildi</i>			
		<i>Stemmonosudis</i>	<i>siliquiventer</i>			
		<i>Sudis</i>	<i>atrox</i>			
		<i>Unguisudis</i>	<i>longirostra</i>			
77	PERCOPHIDAE	<i>Chironema</i>	<i>chlorotaenia</i>			
		<i>Bembrops</i>	<i>caudimacula</i>			
78	PERISTEIIDAE	<i>Peristedion</i>	<i>parthynchus</i>	Smooth-nosed searobin	460 m	Andaman Sea

(Continues)

Continued

No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
79	PHOSICHTHYIDAE	<i>Ichthyococcus</i>	<i>elongatus</i>	Lightfishes	Mesopelagic and bathypelagic adults (Yarrelia and Polymeime may be benthopelagic). Larvae nearer surface than adults.	
80	PLESIOBATIDIDAE	<i>Ichthyococcus</i> <i>Phosichthys</i> <i>Polymetme</i> <i>Polymytme</i> <i>Polytmethme</i> <i>Vinciguerria</i> <i>Vinciguerria</i> <i>Vinciguerria</i> <i>Woodisia</i> <i>Plesiobatis</i>	<i>intermedius</i> <i>ovatus</i> <i>argenteus</i> <i>coryphaeola</i> <i>elongatus</i> <i>suriensis</i> <i>mauli</i> <i>attenuata</i> <i>lucetia</i> <i>nimbaria</i> <i>poweriae</i> <i>monsuchae</i> <i>daviesi</i>		165 to 800 m ? to 350 m 530 to 1,335 m 44 to 780 m	Indo-West Pacific: Gulf of Aden and East Africa to Japan and the Tasman Sea. Also Atlantic and eastern Pacific. Western Pacific: Japan, East China Sea, and the Philippines. Western Pacific: Australia and New Zealand; also Japan. Indo-Pacific: South Africa, Mozambique, southern India, east to the Philippines, north to Japan and south to Australia. Also reported from the Hawaiian Islands.
81	PLEURONECTIDAE	<i>Poecilopsetta</i> <i>Polymixia</i>	<i>colorata</i> <i>japonicus</i>	Flatfish	400 m 160 to 628 m	Andaman Sea Western Pacific: Sagami Bay, Japan to the East China Sea; Chesterfield Islands.
82	POLYMIIXIIDAE	<i>Polymixia</i>	<i>berndti</i>	Beardfishes	Benthic fishes of outer shelf and slope to 800 m. Feed as carnivores, including crustaceans, fishes, and squids. Sometimes locally common bottom fishes.	Indo-Pacific: East Africa to the Hawaiian Islands, north to Japan, south to Australia. The largest species, <i>Polymixia busakhini</i> , may have commercial potential.

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	POLYMIIXIIDAE	Polymixia	<i>busakhini</i> <i>japonicus</i>	Stout beardfish	290 to 300 m	Andaman Sea
83	RAJIDAE	Gurgasiella	<i>sibogae</i> sp.	Siboga skate Weng's skate	Continental slope at a depth of 290 m Occur on the continental slope off tropical and temperate Australia in depths of 400 to 1,030 m.	The tropical Indo-West Pacific, Bali Sea (Indonesia). Wide ranging in the Indo-Pacific from eastern Australia between northern Queensland and Tasmania and off western Australia between Port Hedland and Geraldton. A similar form occurs along the continental slope off the northern Philippines (Luzon).
	Rajidae (Rajella)		<i>annandalei</i>	Annandale's skate	Occurrence from 400 to 830 m 800 to 1,100 m	tropical eastern Indian Ocean, Occurs on the continental slope off eastern Indonesia (Halmahera Sea) Western Pacific: Ryukyu Trough, Taiwan, the Philippines, and Borneo.
	Anacanthobatis		<i>borneensis</i>			Indo-West Pacific: Indonesia.
	Bathyraja	sp.				
	Dipturus	sp.				
	Okamejei	sp.				
84	RHINOCHIMAERIDAE	Rhinochimaera	<i>africana</i> <i>pasifica</i>		549 to 1,450 m 330 to 1,490 m	Southeast Atlantic Pacific Ocean: Japanese Archipelago to the South China Sea, and off Australasia.
	Rhinochimaera					
	RONDELETIIDAE	Rondeletia	<i>loricata</i>		100 to 1,500 m	World wide in tropical to temperate seas.
85	SCOPELARCHIDAE	Benthabella	<i>infans</i>	Pearleyes		
	Scopelarchidae					
86	SCIAENIDAE				Mesopelagic, with most adults from 500 to 1,000 m and possible vertical migrants. Adults feed as carnivores on mesopelagic fishes. Synchronous hermaphrodites. Uncommon deep-sea fishes of no commercial importance.	
	Sciaenidae					
87					Rosenblattichthys <i>alatus</i> <i>Scopelarchoides</i> <i>climax</i> <i>Scopelarchoides</i> <i>danae</i> <i>Scopelarchoides</i> <i>signifer</i> <i>Scopelarchus</i> <i>analis</i> <i>Scopelarchus</i> <i>guentheri</i> <i>Scopelarchus</i> <i>michaelsarsi</i>	
88	SCOMBROLABRACIDAE	Scombrolabrax	<i>Nibea</i>	sp.	100 to 900 m	Atlantic, Indian and Pacific: widespread in tropical and subtropical areas. Not occurring in the eastern Pacific and southeast Atlantic.
	Scombrolabracidae					

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
89	SCOPELARCHIDAE	Scopelarchoides	<i>danae</i>		0 to 800 m	Circumglobal. In tropical to subtropical waters; Western Central Pacific.
90	SCORPAENIDAE	Ectroposebastes	<i>imus</i> <i>guentheri</i>		150 to 732 m	Indo-West Pacific: India and Sri Lanka to the Bay of Bengal, Andaman Sea, north to Japan, south to the Philippines, Indonesia and western Australia.
		Setarches			180 to 704 m	Indo-West Pacific: Indian Ocean east to Fukushima Prefecture, Japan, south to Australia. Reported from the Arafura Sea.
		Setarches	<i>longimanus</i>			
91	SCYLIORHINIDAE	Scorpaenidae	sp.			
		Apristurus	sp.			
		<i>Halaelurus</i>	<i>hispidus</i>	Dog fish	190 to 320 m	Andaman Sea
92	SERRANIDAE	Chelidonopera	sp.			
93	SERRIVOMERIDAE	Serrivomer	<i>beritini</i>	Sawtooth eels	midwater eels, found mainly at depths of 500 to 1,000 m.	
		Serrivomer	<i>jesperseni</i>			
		Serrivomer	<i>neocaldoniensis</i>			
		Serrivomer	<i>samoensis</i>			
		Serrivomer	<i>sector</i>			
		Sternopygion	<i>hypolemas</i>			
94	SOMNIOSIDAE	Zameus	<i>squamulosus</i>		0 to 2,200 m	Western Pacific: Japan, South China Sea, New Zealand, and Australia.
95	SQUALIDAE	Embopterus	<i>spinax</i>	Lantern shark	450 m	Andaman Sea
		Squalus	<i>fernandinus</i>	Spiny dogshark	200 to 270 m	Andaman Sea
		Squalus	<i>brevirostris</i>		? to 130 m	Western Pacific: southern Japan to the South China Sea.
		Squalina	<i>tergocellataoides</i>			Northwest Pacific: Taiwan Straits.
96	STERNOPTYCHIDAE	Argyropelecus	<i>affinis</i>	Lantern shark	1 to 3,872 m	Indo-West Pacific: Indonesia.
		Argyropelecus	<i>hemigymnus</i>		0 to 1,500 m	
		Argyropelecus	<i>olfersii</i>		460 m	
		Argyropelecus	<i>sladeni</i>	Hatchet-fish	0 to 2,926 m	Andaman Sea
		Polypodus	<i>spinosus</i>		420 m	
		Sternopyxx	sp.			
97	STOMIIDAE	Stomias	<i>affinis</i>	Scaly dragonfishes	Mainly mesopelagic (to 1,000 m) as adults, with some species bathypelagic, to 2,000 m. Migration to near surface at night in some species.	

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	STOMIIDAE	Stomias	<i>boa</i>			
		Stomias	<i>danae</i>			
		Stomias	<i>longibarbus</i>			
		Stomias	<i>nebulosus</i>			
98	SYNAPHOBRANCHIDAE			Cutthroat eels	Inhabitant of cooler water and can be expected at the northern and southern extremities of the area. Subfamily Synaphobranchinae live in fairly deep water. With a few exceptions, species of the Ilyophinae are rare and seldom seen.	
	Subfamily ILYOPHINAE	<i>Dysomma</i>	<i>anguillare</i>			
		<i>Dysomma</i>	<i>brevirostre</i>			
		<i>Dysomma</i>	<i>bucephalus</i>			
		<i>Dysomma</i>	<i>dolichosomatum</i>			
	Subfamily ILYOPHINAE	<i>Dysomma</i>	<i>fuscoventrale</i>			
		<i>Dysomma</i>	<i>gostlinei</i>			
		<i>Dysomma</i>	<i>melanurum</i>			
		<i>Dysomma</i>	<i>muciparus</i>			
		<i>Dysomma</i>	<i>opisthoproctus</i>			
		<i>Dysomma</i>	<i>polycatodon</i>			
		<i>Dysommina</i>	<i>rugosa</i>			
		<i>Ilyophis</i>	<i>ax</i>			
		<i>Ilyophis</i>	<i>brunneus</i>			
		<i>Meadia</i>	<i>abyssalis</i>			
		<i>Meadia</i>	<i>roseni</i>			
		<i>Thermobiotics</i>	<i>myrtelogeiton</i>			
	Subfamily SIMENCHELYINAE	<i>Simenchelys</i>	<i>parasitica</i>			
	Subfamily SYNAPHOBRANCHINAE	<i>Synaphobranchus</i>				
		<i>Synaphobranchus</i>	<i>affinis</i>			
		<i>Synaphobranchus</i>	<i>bathybius</i>			
		<i>Synaphobranchus</i>	<i>brevidorsalis</i>			
		<i>Synaphobranchus</i>	<i>bruuni</i>			
		<i>Synaphobranchus</i>	<i>capensis</i>			
		<i>Synaphobranchus</i>	<i>kaupi</i>			

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
99	STYLEPHORIDAE	Stylephorus	chordatus	Tube-eyes	The only known species in this family, <i>Stylephorus chordatus</i> , is mesoor bathypelagic (captured at depths of 300 to 800 m) and rare, but with a worldwide distribution. It feeds on small crustaceans, and is thought to capture prey while swimming in a vertical, head-up position. Little is known of its habits or reproduction, and there is no fishery for the species.	
100	SYNAPHOBRANCHIDAE	Dysoma	<i>anguillera</i> <i>lyophas</i> <i>Meadia</i>		450 to 3,120 m 100 to 320 m	Indian and Pacific. Circumtropical, except the Northeast Pacific. Indo-Pacific: Reunion, Mauritius, southern Japan, Hancock Seamount, and the Hawaiian and Society Islands.
		Synaphobranchus	<i>brevidorsalis</i> <i>kaupii</i>		900 to 3,000 m 120 to 4,800 m	Indo-Pacific: Zanzibar and Maldives, Japan and Australia. Indo-West Pacific: Japan and Australia; Hawaii and the Indian Ocean.
101	SYNODONTIDAE	Harpodon	<i>microchir</i>	Smallfinned Bombay duck	Inhabits soft bottoms in deep water. No importance to fisheries.	Known from Japan, northeastern Philippines, and southern Indonesia.
		Saurida	<i>filamentosa</i>	Filamentous saury	Occurs on mud and sand bottoms in depths of 140 to 220 m.	Widespread in the West Pacific from the East China Sea to eastern Australia.
		Saurida	<i>grandisquamis</i>	Grey saury	Occurs on sand and mud bottoms in depths of 20 to 265 m. Often taken in trawls, but only of minor importance to fisheries.	
		Saurida	<i>longimanus</i>	Longfin lizardfish	Occurs on sand and mud bottoms in depths of 55 to 280 m. Occasionally taken in bottom trawls, but of minor importance to fisheries.	Widespread in the Indian Ocean from the Gulf of Oman to southern Indonesia, northwestern Australia and the Arafura Sea.
		Saurida	<i>undosquamis</i>	Brushooth lizardfish	Occurs on sand and mud bottoms in depths of 20 to 350 m. Often taken in trawl catches, but of minor importance to fisheries.	Widespread in the West Pacific from Japan to northwestern Australia.
		Synodus	<i>doaki</i>	Doak's lizardfish	A benthic species, frequently occurs in pairs on sandy bottoms adjacent to rock and coral in depths of 19 to 250 m. Occasionally taken in bottom trawls, of minor importance to fisheries.	Widespread in the Indo-West Pacific from East Africa, including the Red Sea, to Hawaii.
		Synodus	<i>indicus</i>	Indian lizardfish	A benthic species, occurring on soft bottoms in depths of 20 to 100 m. No importance to fisheries.	Widespread in the Indo-West Pacific from East Africa, not including the Red Sea and Persian Gulf, to the Philippines.

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	SYNODONTIDAE	<i>Synodus</i>	<i>jaculum</i>	Lighthouse lizardfish	A benthic species, frequently found swimming high above the substrate on mixed sand and coral rubble bottoms in depths of 10 to 100 m. Occasionally taken in bottom trawls. Of minor importance to fisheries.	Widespread in the Indo-West Pacific from East Africa, not including the Red Sea and Persian Gulf, to the Marquesas Islands.
		<i>Synodus</i>	<i>kaiianus</i>	Kaiianus lizardfish	A species of deeper waters, found on soft bottoms in depths between 200 and 300 m. No importance to fisheries.	Widespread in the West Pacific from the South China Sea to Hawaii.
		<i>Synodus</i>	<i>macrocephalus</i>	Largehead lizardfish	Occurs on soft bottoms in depths of 75 to 175 m. Occasionally taken in shrimp trawls. Of little importance to fisheries.	
		<i>Synodus</i>	<i>macrops</i>	A benthic species, occurring on soft bottoms in depths of 35 to 173 m.	Widespread in the Indian Ocean from Somalia to southern Indonesia.	
		<i>Trachinocephalus</i>	<i>myops</i>	Bluntnose lizardfish	A benthic species, occurring on soft bottoms in estuaries, bays and coastal waters in depths to 200 m.	
102	TORPEDINIDAE	<i>Torpedo</i>	<i>tokionis</i>			Northwest Pacific: Japan
103	TRACHICHTHYIDAE	<i>Gephyroberyx</i>	<i>darwini</i>		9 to 1210 m	Indo-Pacific: off Natal (South Africa), Bay of Bengal, southern Australia, Chatham Plateau around New Zealand, and the Philippines.
		<i>Hoplostethus</i>	<i>rubellopterus</i>		800 to 875 m	Indian Ocean: Indonesia.
		<i>Hoplostethus</i>	<i>crassispinus</i>		280 to 600 m	Northwest Pacific: Kyushu-Palau Ridge and Hawaii. Could possibly be off Viet Nam.
						Indo-West Pacific: Japan, the Philippines, Celebes Sea.
						Indo-Pacific: off Natal (South Africa), Bay of Bengal, southern Australia, Chatham Plateau around New Zealand, and the Philippines.
						Indo-West Pacific: Kenya and Hong Kong. Also recorded from the South China Sea and the Chesterfield and Bellona plateaus.
104	TRIACANTHODIDAE	<i>Atrophacanthus</i>	<i>japonicus</i>		300 to 2,000 m	Indo-West Pacific: East Africa to Japan, south to the Philippines and Indonesia.
		<i>Bathyphylax</i>	<i>bombifrons</i>		600 to 615 m	Indo-West Pacific: Kenya to Japan and New Zealand.
						Northwest Pacific: Pacific coast of Southern Japan, southern Korean Peninsula, Taiwan, and Hong Kong.
						Indo-West Pacific: east coast of Africa to Japan, the Philippines, and Indonesia.
105	TRIAKIDAE	<i>Hemitriakis</i>	sp.		390 to 610 m	
106	TRICHIURIDAE	<i>Aphanopus</i>	<i>arigato</i>		50 to 675 m	
					50 to 607 m	
					0 to 1,350 m	Western Pacific: Japan, Kuril Islands, NW Ridge (Kinmei Seamount).

(Continues)

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No.	Family/Subfamily	Genus	Species	Common name	Life history (Habitat, Depth of occurrence)	Distribution area
	TRICHLURIDAE	<i>Aphanopus</i> <i>Trichurus</i>	<i>microphthalmus</i> <i>lepturus</i>	Small-eye Largehead hairtail	Benthopelagic at depths of 810 to 1,020 m. dwell on the continental shelf to a depth of 350 m or more.	Indian Ocean and South China Sea (recorded from off Viet Nam). Throughout tropical and temperate waters of the world.
		<i>Benthodesmus</i>	<i>elongatus</i>			Indo-West Pacific: Indonesia.
		<i>Benthodesmus</i>	<i>macrophthalmus</i>	Bigeye frostfish	Benthopelagic at depths of 320 to 600 m.	Known from the Arafura Sea and the Indian Ocean off Java.
		<i>Benthodesmus</i>	<i>sullivani</i>	Philippine frostfish	Probably benthopelagic; juveniles mesopelagic at depths of 200 to 500 m.	Known from the Sulu Sea (Philippines).
		<i>Benthodesmus</i>	<i>tenuis</i>	Slender frostfish	Benthopelagic at depths of 200 to 850 m.	In the Pacific from the Emperor Seamounts, Japan, Ryukyu Islands, Viet Nam, and the Sulu Sea; in the Indian Ocean off southern Java.
		<i>Benthodesmus</i>	<i>tuckeri</i>	Tucker's frostfish	Benthopelagic at depths of 550 to 790 m.	Distributed in the western Pacific Ocean from the Philippines, Viet Nam, Molucca Islands, and southeastern Australia; in the Indian Ocean from Socotra Island, Sayo de Malha Bank, Mozambique Channel, and south of Java.
		<i>Benthodesmus</i>	<i>vityazi</i>	Vityaz' frostfish	Benthopelagic at depths of 640 to 820 m.	Known from the western and Central Pacific, seas of the Indo-Australian Archipelago, northeastern and northwestern Indian Ocean.
		<i>Trichurus</i>	<i>auriga</i>	Pearly hairtail	Benthopelagic, in deep waters at depths of 250 to 350 m.	Distributed in the Red, Arabian, and Timor seas.
107	TRIGLIDAE	<i>Pterygotrigia</i> <i>Lepidotrigla</i>	<i>hemisticta</i> sp			
108	URANOSCOPIDAE	<i>Xenocephalus</i>	<i>elongatus</i>		35 to 440 m	Indo-West Pacific: Japan and the Ryukyu Islands to the East China Sea. Also found in Indonesia.
		<i>Urolophus</i>	<i>bucculentus</i>	Sandyback stingaree	100 to 230 m	southeastern coast of Australia, from South Australia (Beachport, Victoria, Tasmania (south to Hippolyte Rocks), New South Wales, and Queensland (Stradbroke Island)).
		<i>Urolophus</i>	<i>javanicus</i>	Java stingaree	A rare stingaree, with biology virtually unknown.	Occurs off Java (Djakarta) in the area.
		<i>Urolophus</i>	<i>kaijanus</i>	Kai stingaree	occurs in a depth of 236 m on blue mud bottom.	A little-known deep-water stingaree that occurs off the Kai Islands, Indonesia.
109	XIPHIDAE	<i>Xiphias</i>	<i>gladius</i>		0 to 800 m	Indo-West Pacific: Indonesia.
110	ZEIDAE	<i>Cyrtomimus</i> <i>Cyrtopsis</i> <i>Zenopsis</i>	<i>affinis</i> <i>rosea</i> <i>conchifer</i>		150 to 730 m 50 to 600 m	Western Pacific: Japan, Arafura Sea, and Australia. Western Indian Ocean: India to South Africa. Reported from Indonesia but not in the Pacific Ocean.

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