Updated 20 Aug. 2024 🖃 COMMENTS

Order ANGUILLIFORMES

Snake Eels Family OPHICHTHIDAE Subfamily OPHICHTHINAE Günther 1870

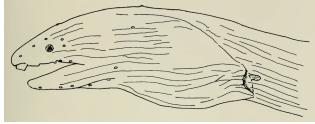


Apterichtus hatookai, holotype, 478.5 mm TL. Photograph by Kiyotaka Hatooka. From: Hibino, Y., J.-Y. Shibata and S. Kimura. 2014. Description of a new snake eel, Apterichtus hatookai sp. nov. (Anguilliformes: Ophichthidae), from the Pacific coast of Japan. Ichthyological Research 61 (4): 317–321.

Allips McCosker 1972

állos (Gr. ἄλλος), other or another; íps (Gr. ἴψ), a kind of worm, i.e., another worm-shaped eel like Evips, described in the same paper

Allips concolor McCosker 1972 Latin for colored uniformly, referring to its uniform brown color in isopropanol



Allips concolor, holotype, 375 mm TL. Illustration by Jean-Jacques Vayne. From: McCosker, J. E. 1972. Two new genera and two new species of western Pacific snake-eels (Apodes: Ophichthidae). Proceedings of the California Academy of Sciences (Series 4) 9 (10): 111–119.

Aplatophis Böhlke 1956

áplatos (Gr. ἄπλατος), unapproachable, always with a notion of terrible or monstrous, referring to fearsome appearance of large mouth and "extremely highly developed" dentition; óphis (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Aplatophis chauliodus Böhlke 1956 named for the stomiid genus *Chauliodus*, referring to the prominent, tusky teeth that both genera feature, from *chauliodon* (Gr. χαυλιόδων), having prominent teeth

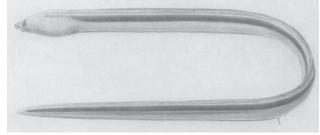


Aplatophis zorro, holotype, 1039 mm TL. From: McCosker, J. E. and D. R. Robertson. 2001. Aplatophis zorro, a new species of eastern Pacific snake-eel, with comments on New World ophichthid distributions (Anguilliformes: Ophichthidae). Revista de Biología Tropical 49 (Suppl. 1): 13–19. **Aplatophis zorro McCosker & Robertson 2001** "for the remarkable coloration of the pore pattern along the face, reminiscent of the slash mark of the swordsman Zorro"

Aprognathodon Böhlke 1967

ά-, Greek privative, without; *pro*- (L.), in front of; *gnáthos* (Gr. γνάθος), jaw; *odon*, Latinized and grammatically adjusted from the Greek nominative ὀδούς (*odoús*), tooth, referring to lack of anterior teeth in upper jaw

Aprognathodon platyventris Böhlke 1967 platýs (Gr. πλατύς), flat; ventris (L.), genitive of venter, belly, referring to flattened pre-anal region



Aprognathodon platyventris, holotype, 233.5 mm TL. Illustration by Steven P. Gigliotti. From: Böhlke, J. E. 1967. The descriptions of three new eels from the tropical west Atlantic. Proceedings of the Academy of Natural Sciences of Philadelphia 118 (4): 91–108.

Apterichtus Duméril 1806

ά-, Greek privative, without, and *pterón* (Gr. πτερόν), fin, referring to absence of fins; *ichtus*, variant spelling of *ichthýs* (Gr. ἰχθύς), fish

Apterichtus anguiformis (Peters 1877) Anguis, slowworm (snake-like legless lizard) genus; formis, Neo-Latin scientific adjective of forma (L.), shape or form, referring to its elongate, worm-like body

Apterichtus ansp (Böhlke 1968) abbreviation for the Academy of Natural Sciences of Philadelphia, where Böhlke worked and where holotype is housed

Apterichtus australis McCosker & Randall 2005 Latin for southern, referring to its occurrence in the South Pacific

Apterichtus caecus (Linnaeus 1758) Latin for blind, referring to its small

eyes under skin, which Linnaeus said were incapable of sight ("Oculos nullus video")

Apterichtus dunalailai McCosker & Hibino 2015 Fijian word (eel is from Vanuatu and Fiji) for "small eel," referring to its size (up to 289 mm)

Apterichtus equatorialis (Myers & Wade 1941) Latin for equatorial, referring to type locality north of Barrington Island, Galapagos Islands, near the equator

Apterichtus flavicaudus (Snyder 1904) flavus (L.), yellow; caudus (L.), tail, referring to "lemon yellow" color on posterior half of body in life

Apterichtus gracilis (Kaup 1856) Latin for thin or slender, "thinner and more elongated" (translation) than Ichthyapus acutirostris

Apterichtus hatookai Hibino, Shibata & Kimura 2014 in honor of Kiyotaka Hatooka, ichthyological curator, Osaka Museum of Natural History, for his contribution to the taxonomy of Japanese anguilliform fishes

Apterichtus jeffwilliamsi McCosker & Hibino 2015 in honor of ichthyologist Jeffrey T. Williams, U.S. National Museum of Natural History, who collected holotype

Apterichtus kendalli (Gilbert 1891) in honor of physician William C. Kendall (1861–1939), naturalist aboard the U.S. Fish Commission schooner *Grampus*, from which holotype was collected

Apterichtus klazingai (Weber 1913) in honor of M. D. Klazinga, the brave ("vaillaint") chief mechanical officer of the *Siboga*, to whom the expedition, which collected holotype, owes much

Apterichtus malabar McCosker & Hibino 2015 named for Malabar, New South Wales, Australia, type locality

Apterichtus monodi (Roux 1966) in honor of French naturalist and explorer Théodore Monod (1902–2000), founder and director of Institut Français d'Afrique Noire (now Institut Fondamental d'Afrique Noire), who provided holotype

Apterichtus moseri (Jordan & Snyder 1901) in honor of Jefferson Franklin Moser (1848–1934), U.S. Navy, for his "valued services to ichthyology" as commander of the U.S. Fish Commission steamer *Albatross*, from which holotype was collected

Apterichtus mysi McCosker & Hibino 2015 in honor of Mysi Hoang, Curatorial and Administrative Assistant, Department of Ichthyology, California Academy of Sciences, for her many contributions to ichthyology [a noun in apposition, without the matronymic "ae"]

Apterichtus nariculus McCosker & Hibino 2015 diminutive of naris (L.), nostril, referring to its minute anterior nostrils

Apterichtus orientalis Machida & Ohta 1994 Latin for eastern, referring to its type locality in the Far East (Japan)

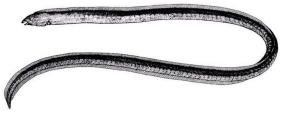
Apterichtus succinus Hibino, McCosker & Kimura 2016 adjective of succinum (L.), amber, referring to its coloration and shape of head and nape markings (vivid reddish oval or circular spots)

Bascanichthys Jordan & Davis 1891

Bascanion (=Coluber), black snake genus, "which the body much resembles" per Jordan & Evermann (1896)¹, from báskanos (Gr. βάσκανος), malicious; ichthýs (Gr. ἰχθύς), fish

Bascanichthys bascanium (Jordan 1884) -*ium*, Latin adjectival suffix: Bascanion (=Coluber), black snake genus, "which the body much resembles" per Jordan & Evermann (1896)¹, from báskanos (Gr. βάσκανος), malicious

Bascanichthys bascanoides Osburn & Nichols 1916 -oides, Neo-Latin from *eîdos* (Gr. εἶδος), form or shape: "Close to" *B. bascanium*



Bascanichthys bascanoides, holotype, 762 mm TL. Illustration by K. Kimoto. From: Osburn, R. C. and J. T. Nichols. 1916. Shore fishes collected by the "Albatross" expedition in Lower California, with descriptions of new species. Bulletin of the American Museum of Natural History 35 (16): 139–181.

Bascanichthys ceciliae Blache & Cadenat 1971 matronym not identified, nor can identity be inferred from available information

Bascanichthys cylindricus Meek & Hildebrand 1923 Latin for cylindrical, presumably referring to more terete shape compared to *B. panamensis*

Bascanichthys deraniyagalai Menon 1961 in honor of paleontologistzoologist Paules Edward Pieris Deraniyagala (1899–1976), Director, National Museum, Ceylon (now Sri Lanka)

Bascanichthys fijiensis (Seale 1935) -ensis, Latin suffix denoting place: Suva, Fiji Islands, type locality

Bascanichthys filaria (Günther 1872) etymology not explained but probably from filum (L.), thread, and/or Filaria, a genus of thread-like nematode worms, referring to its "considerably greater slenderness" compared with Ophichthys (=Basanichthys) longipinnis and O. (=B.) kirkii

Bascanichthys gaira Moreno, Acero P. & Grijalba-Bendeck 2016 named for Bahía de Gaira (Gaira Bay), Santa Marta, Colombia, type locality

Bascanichthys inopinatus McCosker, Böhlke & Böhlke 1989 Latin for unexpected, as the authors originally considered specimens of this eel to be an aberrant or geographically variant form of *B. paulensis* and "did not initially expect to describe this as a new species"

Bascanichthys kabeyawan Hibino & Ho 2022 from *ku-piah-uan*, old Taiwanese name of the type locality (Checheng, Pingtung County, southern Taiwan), territory of aboriginal Paiwan people documented in the Dutch occupation period (1624–1662)

Bascanichthys kirkii (Günther 1870) in honor of John Kirk (1832–1922), Scottish physician, naturalist and explorer, who presented specimens to the British Museum (Natural History), including holotype of this eel

Bascanichthys longipinnis (Kner & Steindachner 1867) *longus* (L.), long; *pinnis*, Neo-Latin adjective of *pinna* (L.), fin, referring to length of dorsal fin, which begins before gill slit

Bascanichthys myersi (Herre 1932) in honor of American ichthyologist George S. Myers (1905–1985), Stanford University, who first noticed what is evidently an undeveloped pectoral fin at posterior margin of each gill opening

Bascanichthys panamensis Meek & Hildebrand 1923 -ensis, Latin suffix denoting place: Panama, type locality

Bascanichthys paulensis Storey 1939 - ensis, Latin suffix denoting place: São Paulo, Brazil, type locality

Bascanichthys pusillus Seale 1917 Latin for very small, allusion not explained, perhaps referring to its "slim" body and/or "very minute" pectoral fins

Bascanichthys ryukyuensis Hibino, Yamashita & Sakurai 2022 - ensis, Latin suffix denoting place: Okinawa-jima, Ryukyu Islands, Japan, type locality

Bascanichthys scuticaris (Goode & Bean 1880) Neo-Latin adjective of scutica (L.), whip, presumably referring to its elongate, whip-like shape

Bascanichthys sibogae (Weber 1913) of the ship Siboga and Indonesian expedition (1898–1899) of the same name, during which holotype was collected

 $^{^1}$ Jordan, D. S. and B. W. Evermann. 1896. The fishes of North and Middle America: a descriptive catalogue of the species of fish-like vertebrates found in the waters of North America, north of the Isthmus of Panama. Part I. Bulletin of the United States National Museum No. 47: i–lx + 1–1240.



Brachysomophis porphyreus. From: Temminck, C. J. and H. Schlegel. 1846. Pisces. In: Siebold, P. F. de (ed.). Fauna Japonica. Lugduni Batavorum [Leiden] (A. Arnz et soc.). Parts 10–14: 173–269.

Brachysomophis Kaup 1856

brachýs (Gr. βραχύς), short, and sốma (Gr. σῶμα), body, allusion not explained, perhaps referring to moderately elongate body of *B. horridus* (*=crocodilinus*) compared with more elongate body of most ophichthines; óphis (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Brachysomophis atlanticus Blache & Saldanha 1972 -*icus* (L.), belonging to: Atlantic Ocean, this species representing the first Atlantic occurrence of a largely Pacific genus

Brachysomophis cirrocheilos (Bleeker 1857) cirrus (L.), tuft of hair or fringe; cheźlos (Gr. χεῖλος), lip, referring to numerous prominent barbels on lips

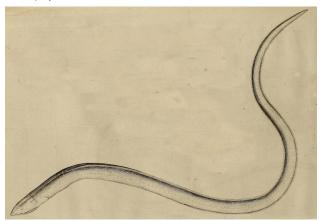
Brachysomophis crocodilinus (Bennett 1833) -*inus*, Latin adjectival suffix, i.e., crocodilian, referring to its imposing long jaws, which give it the countenance of a crocodile

Brachysomophis henshawi Jordan & Snyder 1904 in honor of American ornithologist-ethnologist Henry W. Henshaw (1850–1930) of Hilo, Hawai'i, to whom the authors are "indebted for several rare specimens"

Brachysomophis longipinnis McCosker & Randall 2001 longus (L.), long; pinnis, Neo-Latin adjective of pinna (L.), fin, referring to its elongate pectoral fins

Brachysomophis porphyreus (Temminck & Schlegel 1846) Latinization of the Greek *porphýrē* (πορφύρη), purple or purplish, referring to its purple-brown dorsal coloration in life

Brachysomophis umbonis McCosker & Randall 2001 -*is*, Latin genitive singular of: *umbo* (L.), rounded protuberance, referring to "notable" lateral projection of its cheeks



Caecula pterygera. From: Vahl, M. 1794. Beskrivelse af en nye fiske-slaegt, Caecula. Skrivter af Naturhistorie-Selskabet Kiøbenhavn 3 (2): 149–156, Pl. 13.

Caecula Vahl 1794

diminutive of *caecus* (L.), blind, referring to skin-covered eyes, which are "so small that they are very hard to find in dead specimens" and "might easily be interpreted as pores" (translation)

Caecula pterygera Vahl 1794 pterýx (Gr. πτέρυξ), wing or fin; -gera, Latin suffix meaning to bear or carry, referring to presence of dorsal and anal fins compared with their absence on *C. apterygia* (=*Apterichtus caecus*), described in the same paper

Callechelys Kaup 1856

kállos (Gr. κάλλος), beauty, presumably referring to "handsome" (translation) appearance of *C. guichenoti* (=marmorata); énchelys (Gr. ἔγχελυς), eel

Callechelys bilinearis Kanazawa 1952 *bi-*, from *bis* (L.), twice; *linearis* (L.), linear, referring to two dark lateral stripes along body

Callechelys bitaeniata (Peters 1877) *bi-*, from *bis* (L.), twice; *taeniata* (L.), striped or banded, presumably referring to wide, dark brown stripe running from mid-head to tail, stopping at dorsal fin base below a narrow, pale stripe above base

Callechelys catostoma (Schneider 1801) *cato-*, from *katá* (Gr. κατά), beneath, below or under; *stóma* (Gr. στόμα), mouth, referring to its overhanging lower jaw

Callechelys cliffi Böhlke & Briggs 1954 in honor of American herpetologist, Frank S. Cliff (1928–2000), who captured holotype when he was a graduate student at Stanford University (J. C. Briggs, pers. comm.)

Callechelys eristigma McCosker & Rosenblatt 1972 eri- (Gr. έρι), much or very; stígma (Gr. στίγμα), spot, referring to numerous dark spots on body and dorsal fin

Callechelys galapagensis McCosker & Rosenblatt 1972 -ensis, Latin suffix denoting place: Galápagos Islands, where it is endemic

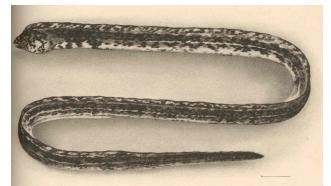
Callechelys guineensis (Osório 1893) -*ensis*, Latin suffix denoting place: Guinea, former Portuguese colony that included Cape Verde Islands, type locality

Callechelys kuro (Kuroda 1947) Japanese for black, probably referring to its purplish-black coloration

Callechelys leucoptera (Cadenat 1954) white-finned, from leukós (Gr. λ ευκός), white, and ptera, from pterón (Gr. πτερόν) or ptéryx (πτέρυξ), wing or fin, referring to "creamy white" and/or "very clear" (translation) fins

Callechelys lutea Snyder 1904 Latin for yellow, referring to lemon-yellow mottling on upper body and dorsal fin [originally spelled *luteus* but corrected to agree with feminine gender of *Callechelys*]

Callechelys maculatus Chu, Wu & Jin 1981 Latin for spotted, stained or marked, presumably referring to more than 10 indistinct black trans-



Callechelys lutea, holotype, 83 cm TL. From: Snyder, J. O. 1904. A catalogue of the shore fishes collected by the steamer "Albartoss" about the Hawaiian Islands in 1902. Bulletin of the U.S. Fish Commission 22 [for 1902]: 513–538, Pls. 1–13.

verse bands on body

Callechelys marmorata (Bleeker 1854) Latin for marbled, referring to chocolate-to-black spots overlain with large black blotches on body and fins

Callechelys muraena Jordan & Evermann 1887 muraena (L.), from *mýraina* ($\mu \dot{\nu} \rho \alpha \iota \alpha \alpha$), Greek name of *Muraena helena* and precursor to "moray," described as stouter and therefore more like *Muraena* in form and color than *C*. (=*Basinichthys*) scuticaris and *C*. (=*B*.) bascanium

Callechelys papulosa McCosker 1998 Latin for blistered or pimpled, referring to small acne-like round pits on lower jaw, cheeks, nape and dorsal surface of head and branchial basket

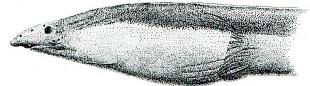
Callechelys randalli McCosker 1998 in honor of American ichthyologist John E. Randall (1924–2020), Bishop Museum (Honolulu), friend and collector of this and many of the specimens included in McCosker's revision of the genus

Callechelys springeri (Ginsburg 1951) in honor of American shark biologist Stewart Springer (1906–1991), who obtained holotype from the stomach of shark

Caralophia Böhlke 1955

cara-, from *kára* (Gr. κάρα), head; *lophia*, from *lóphos* (Gr. λόφος), mane or crest, i.e., a "back fin," referring to anterior origin of dorsal fin

Caralophia loxochila Böhlke 1955 slant-lipped, from *loxós* (Gr. λοξός), slanting, and *cheźlos* (Gr. χεῖλος), lip, referring to conspicuous flange on either side of lower jaw



Caralophia loxochila, holotype, 317 mm TL. Illustration by Steven P. Gigliotti. From: Böhlke, J. E. 1955. A new genus and species of ophichthid eels from the Bahamas. Notulae Naturae (Philadelphia) No. 282: 1–7.

Chauligenion McCosker & Okamoto 2016

chaúlios (Gr. χαύλιος), gaping (but here used in the sense of protruding); géneion (Gr. γένειον), chin, referring to its obtrusive lower jaw

Chauligenion camelopardalis McCosker & Okamoto 2016 *camelus* (L.), camel; *pardus* (L.), leopard, together forming ancient name of the giraffe (cameleopard), referring to its giraffe-like coloration



Chauligenion camelopardalis, holotype, female, 407 mm TL. From: McCosker, J. E. and M. Okamoto. 2016. Chauligenion camelopardalis, a new genus and species of deepwater snake eel (Anguilliformes: Ophichthidae) from the East China Sea. Proceedings of the California Academy of Sciences (Series 4) 63 (9): 321–328.

Cirrhimuraena² Kaup 1856

cirrhi-, from *cirrus* (L.), tuft of hair or fringe, referring to short, irregular barbels on edge of upper lip; *muraena* (L.), from *mýraina* (μύραινα), Greek name of *Muraena helena* and precursor to "moray," allusion not explained, possibly used as a standard suffix for an eel



Cirrhimuraena inhacae, holotype, 183 mm TL Illustration by Margaret Mary Smith. From: Smith, J. L. B. 1962. Sand-dwelling eels of the Western Indian Ocean and the Red Sea. Ichthyological Builetin, Department of Ichthyology, Rhodes University No. 24: 447–466, PIs. 63–68.

Cirrhimuraena calamus (Günther 1870) Latin for reed, possibly referring to its thin, reed-like shape, with tail twice the length of the body

Cirrhimuraena cheilopogon (Bleeker 1860) cheźlos (Gr. χεῖλος), lip; pốgōn (Gr. πώγων), beard, referring to numerous barbels on upper lip

Cirrhimuraena chinensis Kaup 1856 - ensis, Latin suffix denoting place: off the coast of China, where it occurs (also described from Indonesia)

Cirrhimuraena indica Mohapatra, Mohanty, Ray, Mishra & Seth 2021 Indian, referring to India, where type locality (Paradip fishing harbor, Odisha, northern Bay of Bengal) is situated

Cirrhimuraena inhacae (Smith 1962) of Inhaca, Mozambique, type locality

Cirrhimuraena odishaensis Mohanty, Behera, Patro & Mohapatra 2023 *-ensis*, Latin suffix denoting place: Odisha, India, where type localities (Palur canal and Talasari Fish Landing Centre) are situated

Cirrhimuraena oliveri (Seale 1910) patronym not identified, possibly in honor of physiology professor Oliver Peebles Jenkins (1850–1935), who worked with Seale at Stanford University and described many Hawaiian fishes

Cirrhimuraena orientalis Nguyen 1993 Latin for eastern, probably referring to Vietnamese distribution

Cirrhimuraena paucidens Herre & Myers 1931 *paucus* (L.), few or little; *dens* (L.), tooth, presumably referring to distinctive "group of a few small teeth" on maxillary plate beneath tip of snout and/or single rows of small teeth each on vomer and mandible

Cirrhimuraena playfairii (Günther 1870) in honor of Lieut.-Col. Robert Lambert Playfair (1828–1899), British Consul to the Sultanate of Oman in Zanzibar (Tanzania), who presented holotype to the British Museum (Natural History)

Cirrhimuraena tapeinoptera Bleeker 1863 low-finned, from tapeinós (Gr. ταπεινός), low, and ptera, from pterón (Gr. πτερόν) or ptéryx (πτέρυξ), wing or fin, allusion not explained, possibly referring to poorly developed dorsal and anal fins compared with Ophisurus (=Cirrhimuraena) cheilopogon and O. (=C.) polyodon (=chinensis)

Cirrhimuraena yuanding Tang & Zhang 2003 in honor of Zhu Yuang-Ding (1896–1986), "China's leading authority on ichthyology and fishery science" [presumably a noun in apposition, without the patronymic "i"]

Cirricaecula

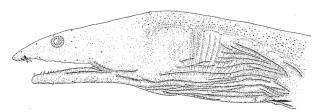
Schultz 1953 cirris (L.), tuft of hair or fringe, referring to cirri on edges of upper lip; Caecula, a closely related genus

Cirricaecula johnsoni Schultz 1953 in honor of American oceanographer



Cirricaecula johnsoni, holotype. Illustration by Dorothea B. Schultz. From: Schultz, L. P., E. S. Herald, E. A. Lachner, A. D. Welander and L. P. Woods. 1953. Fishes of the Marshall and Marianas islands. Vol. I. Families from Asymmetrontidae through Siganidae. Bulletin of the United States National Museum No. 202, v. 1: i–xxxii + 1–685, Pls. 1–74.

² A subgenus is sometimes recognized: *Jenkinsiella* Jordan & Evermann 1905, *-iella* (L.), diminutive suffix connoting endearment, in honor of Oliver Peebles Jenkins (1850–1935), physiology professor, Stanford University, who described many Hawaiian fishes, including type of this subgenus, *Microdonophis macgregori* (=*Cirrhimuraena playfairii*).



Dalophis obtusirostris, holotype, 108 mm TL. Illustration by Pierre Opic. From: Blache, J. and M.-L. Bauchot. 1972. Contribution à la connaissance des poissons Anguilliformes de la côte occidentale d'Afrique. 13e note: les genres Verma, Apterichthus, Ichthyapus, Hemerorhinus, Caecula, Dalophis avec la description de deux genres nouveaux (Fam. des Ophichthidae). Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles 34 (3): 692–773.

Martin W. Johnson (1893–1984), Scripps Institution of Oceanography, who participated in Schultz' 1946 field work

Cirricaecula macdowelli McCosker & Randall 1993 in honor of Michael McDowell (note Latinization of "Mc" to "Mac"), Australian "tour operator and bon vivant, who has taken us to remote outposts in search of rare specimens" and "diver, explorer and friend"

Dalophis

Rafinesque 1810

dal, meaning unknown, possibly derived from Dalmatia, then a country on the east side of the Adriatic Sea, within range of type, *Dalophis serpa* (=*imberbis*); *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Dalophis boulengeri (Blache, Cadenat & Stauch 1970) in honor of Belgian-born British ichthyologist-herpetologist George A. Boulenger (1858–1937), British Museum (Natural History), who first reported the presence of this eel off the coast of West Africa in 1915 but incorrectly identified it as *Sphagebranchus* (=*Dalophis*) cephalopeltis

Dalophis cephalopeltis (Bleeker 1863) cephalo-, from kephalé (Gr. κεφαλή), head; peltis, from péltē (Gr. πέλτη), small shield, allusion not explained nor evident; name apparently coined by zoologist Hermann Schlegel (1804–1884) in an unpublished manuscript

Dalophis imberbis (Delaroche 1809) Latin for beardless, referring to absence of cirri on snout

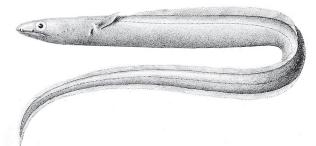
Dalophis multidentatus Blache & Bauchot 1972 multi- (L.), many; dentatus (L.), toothed, presumably referring to more teeth compared with D. imberbis and D. boulengeri

Dalophis obtusirostris Blache & Bauchot 1972 obtusus (L.), blunt; rostris, Neo-Latin scientific adjective of rostrum (L.), snout, presumably referring to less prominent snout compared with congeners

Echelus Rafinesque 1810

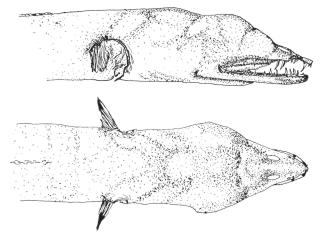
presumably a variant spelling of échis (Gr. ἔχις), viper or adder, referring to snake-like appearance of *E. punctatus* (=myrus)

Echelus myrus (Linnaeus 1758) historical name for this eel dating to at least Rondelet's *Libri de piscibus marinis* (1554), presumably a Latinization of múros (Gr. μ ũρος)³, with two definitions, a kind of eel and,



Echelus pachyrhynchus. From: Vaillant, L. L. 1888. Expéditions scientifiques du "Travailleur" et du "Talisman" pendant les années 1880, 1881, 1882, 1883. Poissons. Paris. 1–406, Pls. 1–28.

³ Můros, sometimes spelled smůros (σμῦρος), may be derived from the Indo-European smer(u) meaning fat (eels have a high fat content) or greasy (i.e., slippery). See: Frisk, H. 1970. Griechisches etymologisches wörterbuch. Vol. 2. Heidelberg: Carl Winter Universitatsverlag. 1154 pp.



Echiophis brunneus, holotype, 780 mm TL. From: Castro-Aguirre, J. L. and S. Suárez de los Cobos.1983. Notophtophis brunneus, nuevo género y especie de la familia Ophichthidae, (Pisces: Anguilliformes) hallado en la Bahía de Acapulco, Guerrero, México. Anales de la Escuela Nacional de Ciencias Biológicas, México v. 27: 113–128.

specifically, a male moray

Echelus pachyrhynchus (Vaillant 1888) thick-snouted, from *pachýs* (Gr. παχύς), thick or stout, and *rhýnchos* (Gr. ῥύγχος), snout, probably referring to its short, rounded and "swollen" or "bulging" (translation) snout

Echelus polyspondylus McCosker & Ho 2015 *polý*- (Gr. πολύ), many; *spóndylos* (Gr. σπόνδυλος), vertebra, having more vertebrae than any of its congeners

Echelus uropterus (Temminck & Schlegel 1846) *uro*, from *ourá* (Gr. οὐρά), tail; *pterus*, from *pterón* (Gr. πτερόν) or *ptéryx* (πτέρυξ), fin, referring to confluence of dorsal and anal fins with caudal fin, which, in effect, creates appearance of one long tail fin extending around body

Echiophis Kaup 1856

presumably a combination of *échis* (Gr. ἔχις), viper or adder, and *óphis* (Gr. ὄφις), serpent, both words referring to the snake-like appearance of *E. intertinctus*, but name may be a misspelling of *Echiopsis* (*ópsis* [Gr. ὄψις], appearance, i.e., resembling a viper

or adder), which Kaup later used

Echiophis brunneus (Castro-Aguirre & Suárez de los Cobos 1983) Medieval Latin for brown, referring to uniformly dark brown coloration

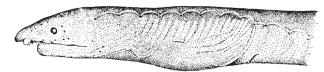
Echiophis intertinctus (Richardson 1848) *inter* (L.)., between; *tinctus* (L.), painted or stained, i.e., colored between or within, allusion not explained but probably referring in some way to its spotted color pattern

Echiophis mordax (Poey 1860) Latin for biting, allusion not explained, perhaps referring to stronger, larger teeth compared to smaller teeth of two congrid eels Poey said were clearly different: Conger analis (=Arisoma anale) and C. impressus (=Ariosoma balearicum)

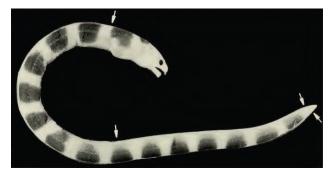
Echiophis punctifer (Kaup 1859) punctum (L.), spot; fero (L.), to have or bear, referring to numerous small brown spots on body

Ethadophis

Rosenblatt & McCosker 1970 ethás (Gr. ἐθάς), customary or usual, referring to its "lack of outstanding morphological characters"; *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape



Ethadophis byrnei, holotype, 508 mm TL. Illustration by Elizabeth Parker. From: Rosenblatt, R. H. and J. E. McCosker. 1970. A key to the genera of the ophichthid eels, with descriptions of two new genera and three new species from the eastern Pacific. Pacific Science 24 (4): 494–505.



Evips percinctus, holotype, 125.5 mm TL. Arrows indicate origin and termination of median fins. From: McCosker, J. E. 1972. Two new genera and two new species of western Pacific snake-eels (Apodes: Ophichthidae). Proceedings of the California Academy of Sciences (Series 4) 39 (10): 111–119.

Ethadophis akkistikos McCosker & Böhlke 1984 akkistikós (Gr. άκκιστικός), coy, referring to the coy appearance of its face

Ethadophis byrnei Rosenblatt & McCosker 1970 in honor of the late John Byrne, a San Diego, California (USA) resident who was walking on the beach during low tide when the holotype stuck its head out of the wet sand; he grabbed it and brought it to the Scripps Institution of Oceanography, where it was identified as a new species (and remains the only known specimen; J. E. McCosker, pers. comm.)

Ethadophis merenda Rosenblatt & McCosker 1970 Latin for afternoon snack, referring to type being taken from the stomach of a White Sea Bass Cynoscion nobilis

Evips

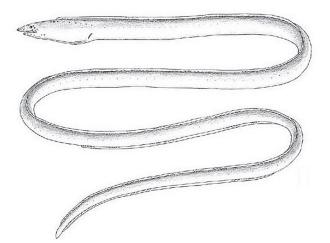
McCosker 1972 eú- (Gr. εὖ), good, Latinized to ev- for euphony before a vowel (per McCosker); *íps* (Gr. ἴψ), worm, referring to worm-like appearance of this "charming eel"

Evips percinctus McCosker 1972 *per-* (L.), very, continuous or throughout; *cinctus* (L.), belted or girdled, referring to 16 brown saddles on upper half of body

Gordiichthys Jordan & Davis 1891

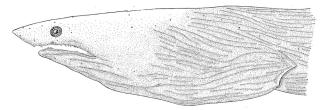
Gordius, horsehair worm genus, named after Gordius, king whose complicated ("Gordian") knot was cut by Alexander, referring to thin, elongate body; *ichthýs* (Gr. ἰχθύς), fish

Gordiichthys combibus McCosker & Lavenberg 2001 from *combibo* (L.), to drink with a companion, referring to the "sibling nature" of this eastern Pacific species to its Atlantic congener *G. randalli*⁴



Gordiichthys combibus, holotype, 406 mm TL. Illustration by Molly Brown. From: McCosker, J. E. and R. J. Lavenberg. 2001. *Gordiichthys combibus*, a new species of eastern Pacific sand-eel (Anguilliformes: Ophichthidae). Revista de Biología Tropical 49 (Suppl. 1): 7–12.

⁴ Knowing that John ("lack") Randall and John E. McCosker were frequent collaborators and dive buddies, I asked Dr. McCosker: Did you combibe with Jack Randall and, if so, was that a private inspiration for the name? Here, for the etymological record, is McCosker's reply: "Yup."



Hemerorhinus opici, holotype, 236 mm TL. Illustration by Pierre Opic, for whom the species is named. From: Blache, J. and M.-L. Bauchot. 1972. Contribution à la connaissance des poissons Anguilliformes de la côte occidentale d'Afrique. 13e note: les genres Verma, Apterichthus, Ichthyapus, Hemerorhinus, Caecula, Dalophis avec la description de deux genres nouveaux (Fam. des Ophichthidae). Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles 34 (3): 692–773.

Gordiichthys ergodes McCosker, Böhlke & Böhlke 1989 *ergódēs* (Gr. ἐργώδης), irksome or troublesome, referring to the "difficulties this new species has created" with the authors' previous concept of generic limits between *Gordiichthys, Allips, Phaenomonas* and *Ethadophis*

Gordiichthys irretitus Jordan & Davis 1891 Latin for entangled or caught in a net, probably referring to partially digested holotype found in the "spewings" of snappers (*Lutjanus aya*)

Gordiichthys leibyi McCosker & Böhlke 1984 in honor of Mark M. Leiby (b. 1944), Florida Department of Natural Resources, Marine Research Laboratory (St Petersburg), "friend and apodal ichthyologist"

Gordiichthys randalli McCosker & Böhlke 1984 in honor of American ichthyologist John E. Randall (1924–2020), Bishop Museum (Honolulu), friend and collector of type specimens

Hemerorhinus

Weber & de Beaufort 1916

hémeros (Gr. ἤμερος), cultivated; rhinus, presumably from rhinos (Gr. ῥινός), genitive of rhís (ῥίς), snout, allusion not explained, perhaps referring to pointed snout of *H. heyningi* projecting beyond mouth

Hemerorhinus heyningi (Weber 1913) patronym (also spelled *heijnigi*) not identified but clearly in honor of Lieut. Cornelis E. Hoorens van Heyningen, an officer aboard the *Siboga* expedition during which holotype was collected

Hemerorhinus opici Blache & Bauchot 1972 in honor of French artist and illustrator Pierre Opic, who provided the illustrations for Blache's African anguilliform monographs

Herpetoichthys Kaup 1856

herpetón (Gr. ἐρπετόν), creeping animal, reptile or snake, referring to snake-like appearance of *H. regius* and probably of eels in general; *ichthýs* (Gr. ἰχθύς), fish

Herpetoichthys fossatus (Myers & Wade 1941) Latin for dug, allusion not explained, perhaps referring to its burrowing behavior in softbottom habitats

Herpetoichthys regius (Richardson 1848) Latin for royal, allusion not explained, perhaps referring to distinctive coloration (brown markings on pale background), but since holotype had "been immersed in spirits many years, and many of its markings have doubtless disappeared," such a presumption can easily be questioned



Herpetoichthys fossatus, holotype, 108 mm TL. From: Myers, G. S. and C. B. Wade. 1941. Four new genera and ten new species of eals from the Pacific coast of tropical America. Allan Hancock Pacific Expedition 1932-40, Los Angeles 9 (4): 65–111, PIs. 7–16.



Hyphalophis devius, holotype, 286 mm TL. Illustration by Mary H. Fuges. From: McCosker, J. E. and J. E. Böhlke. 1982. Three new genera and two new species of deepwater western Atlantic snake-eels (Pisces: Ophichthidae). Proceedings of the Academy of Natural Sciences of Philadelphia 134: 113–121.

Hyphalophis McCosker & Böhlke 1982

hýphalos (Gr. ὕφαλος), under the sea, referring to "extraordinary" depth of capture (293–366 m) of holotype; *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Hyphalophis devius McCosker & Böhlke 1982 Latin for off the main way or highway, referring to two unique characteristics: quadriserial rows of maxillary dentition and a lateral line that abruptly arches and abuts lateral line from other side on top of head

Ichthyapus

Brisout de Barneville 1847

ichthýs (Gr. ἰχθύς), fish; ἀ-, Greek privative, without, and poús (Gr. πούς), foot, referring to finlessness of *I. acutirostris*

Ichthyapus acuticeps (Barnard 1923) acutus (L.), sharp or pointed; -ceps (Neo-Latin), headed, referring to pointed snout and, hence, pointed head

Ichthyapus acutirostris Brisout de Barneville 1847 acutus (L.), sharp or pointed; rostris, Neo-Latin scientific adjective of rostrum (L.), snout, referring to its pointed snout

Ichthyapus insularis McCosker 2004 Latin for of islands, referring to Ascension Island, South Atlantic Ocean, where it appears to be endemic

Ichthyapus keramanus (Machida, Hashimoto & Yamakawa 1997) -anus (L.), belonging to: south of Kerama Islands, Okinawa, Japan, type locality



Ichthyapus keramanus, holotype, 276 mm TL. From: Machida, Y., H. Hashimoto and T. Yamakawa. 1997. Apterichtus keramanus, a new snake-eel from Okinawa, southern Japan (Ophichthinae, Ophichthidae). Ichthyological Research 44 (1): 27–33.

Ichthyapus ophioneus (Evermann & Marsh 1900) -*eus*, Latin suffix, having the quality of: *óphis* (Gr. ὄφις), serpent, referring to its snake-like appearance

Ichthyapus platyrhynchus (Gosline 1951) flat-snouted, from *platýs* (Gr. πλατύς), flat, and *rhýnchos* (Gr. ῥύγχος), snout, referring to how its snout forms a flattened triangle in cross section

Ichthyapus selachops (Jordan & Gilbert 1882) *sélachos* (Gr. σέλαχος), a cartilaginous fish (i.e., shark or ray); *ốps* (Gr. $\tilde{\omega}\psi$), eye or face (i.e., appearance), referring to its "remarkably shark-like" physiognomy, created by nostrils on lower side of snout, which projects over mouth

Ichthyapus vulturis (Weber & de Beaufort 1916) named after the Dutch Government Fisheries Investigation ship *Gier* (=vulture), from which holotype was collected

Kertomichthys McCosker & Böhlke 1982

kertómios (Gr. κερτόμιος), mocking or delusive, referring to facial expression (down-turned snout and forward eye position) and the difficulty it has caused ichthyologists trying to understand its relationships; ichthýs (Gr. ἰχθύς), fish



Kertomichthys blastorhinos, holotype, 418 mm TL. From: Kanazawa, R. H. 1963. Two new species of ophichthid eels from the western Atlantic. Proceedings of the Biological Society of Washington 76: 281–287.

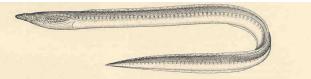
Kertomichthys blastorhinos (Kanazawa 1963) blastós (Gr. βλαστός), bud, shoot or sprout; *rhinos* (Gr. ῥινός), genitive of *rhís* (ῥίς), snout, referring to its clavate snout

Lamnostoma Kaup 1856

etymology not explained, presumably from *lámna* (Gr. λάμνα), a voracious fish or shark; *stóma* (Gr. στόμα), mouth, referring to the voracious or shark-like appearance of mouth of *L. pictum* (=*orientale*)

Lamnostoma kampeni (Weber & de Beaufort 1916) in honor of Dutch herpetologist Pieter Nicolaas Van Kampen (1878–1937), who collected holotype

Lamnostoma mindora (Jordan & Richardson 1908) named after Mindoro Island, Philippines, type locality



Lamnostoma mindora, holotype, 381 mm TL. From: Jordan, D. S. and R. E. Richardson. 1908. Fishes from islands of the Philippine Archipelago. Bulletin of the Bureau of Fisheries 27 (Doc. 640) (for 1907): 233–287.

Lamnostoma orientale (McClelland 1844) Latin for eastern, typically the Far East or Orient, probably referring to Coromandel Coast of India, type locality

Lamnostoma polyophthalmus (Bleeker 1853) polý- (Gr. πολύ), many; ophthalmós (Gr. ἀφθαλμός), eye, probably referring to double row of yellow, round spots on head and nape [often spelled as an adjective, polyophthalmum]

Lamnostoma taiwanense Chiu, Huang & Shao 2018 -ense, Latin suffix (neuter) denoting place: known only from Lan-yang River, northeastern Taiwan

Lamnostoma taylori (Herre 1923) in honor of American herpetologist Edward H. Taylor (1889–1978), "student of Philippine reptiles and amphibia" (and Chief of Fisheries in the Philippines)

Leiuranus Bleeker 1853

leios (Gr. λεῖος), smooth; urano-, from ouranískos (Gr. οὐρανίσκος), roof of mouth, referring to toothless vomer



Leiuranus semicinctus. From: Lay, G. T. and E. T. Bennett. 1839. Fishes. In: F. W. Bechey (ed.). The zoology of Captain Beechey's voyage. London: Henry G. Bohn. i–xii + 1–180 + 45 pl.

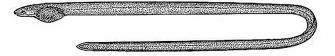
Leiuranus semicinctus (Lay & Bennett 1839) *semi-*, from *semis* (L.), a half or moiety; *cinctus* (L.), belted or girdled, referring to "fascia-like patches of dark-brown, which do not surround the body, but are interrupted on the under surface"

Leiuranus versicolor (Richardson 1848) Latin for variegated or of various colors, referring to 27 purplish-brown rings, which are further divided more or less completely by narrower white lines or imperfect circles

Leptenchelys Myers & Wade 1941

leptós (Gr. λεπτός), fine or thin, referring to its elongate body; énchelys (Gr. ἔγχελυς), eel

Leptenchelys vermiformis Myers & Wade 1941 vermis (L.), worm; formis (L.), shape or form, referring to its worm-like shape



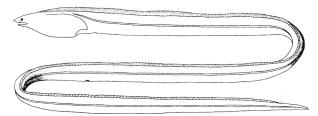
Leptenchelys vermiformis, holotype, 115 mm TL. From: Myers, G. S. and C. B. Wade. 1941. Four new genera and ten new species of eels from the Pacific coast of tropical America. Allan Hancock Pacific Expedition 1932–40, Los Angeles 9 (4): 65–111, Pls. 7–16.

Letharchus

Goode & Bean 1882 Iếthẽ (Gr. λήθη), forgetfulness; archós (Gr. ἀρχός), anus, referring to lack of anal fin on *L. velifer*

Letharchus aliculatus McCosker 1974 -atus (L.), provided with: alicula (L.), a light-colored upper garment, referring to cream and pale-tan coloration of its body and fins

Letharchus rosenblatti McCosker 1974 in honor of American ichthyologist Richard H. Rosenblatt (1930–2014), Scripps Institution of Oceanography, for contributions to the study of apodal fishes and the education of ichthyologists



Letharchus rosenblatti, holotype, 240 mm TL. From: McCosker, J. E. 1974. A revision of the ophichthid eel genus Letharchus. Copeia 1974 (3): 619–629.

Letharchus velifer Goode & Bean 1882 velum (L.), sail; fero (L.), to have or bear, referring to unusually high dorsal fin, height at nape equaling distance from tip of lower jaw to angle of mouth

Lethogoleos

McCosker & Böhlke 1982

letho-, from léthē (Gr. λήθη), forgetfulness; goleós (Gr. γωλεός), a hole or pricking, referring to unique absence of several cephalic pores

Lethogoleos andersoni McCosker & Böhlke 1982 in honor of William D. Anderson, Jr. (b. 1933), Grice Marine Biological Laboratory (Charleston,



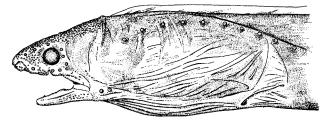
Lethogoleos andersoni, paratype, 274.4 mm TL. Illustration by Mary H. Fuges. From: McCosker, J. E., and J. E. Böhlke. 1982. Three new genera and two new species of deepwater western Atlantic snake-eels (Pisces: Ophichthidae). Proceedings of the Academy of Natural Sciences of Philadelphia 134: 113–121.

South Carolina, USA), friend and ichthyologist, who made specimens available to the authors

Leuropharus

Rosenblatt & McCosker 1970 *leurós* (Gr. λευρός), smooth; *pháros* (Gr. φάρος), plow, referring to its toothless vomerine shaft

Leuropharus lasiops Rosenblatt & McCosker 1970 *lásios* (Gr. λάσιος), shaggy or bearded; *ốps* (Gr. $\tilde{\omega}\psi$), eye or face (i.e., appearance), referring to numerous papillae on its snout and lips

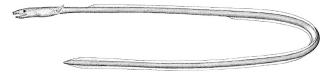


Leuropbarus lasiops, holotype, 174 mm TL. Illustration by Elizabeth Parker. From: Rosenblatt, R. H. and J. E. McCosker. 1970. A key to the genera of the ophichthid eels, with descriptions of two new genera and three new species from the eastern Pacific. Pacific Science 24 (4): 494–505.

Luthulenchelys McCosker 2007

in honor of Chief Albert John Mvumbi Luthuli (ca. 1898–1967) of KwaZulu-Natal, Africa's first winner of the Nobel Peace Prize and former President of the African National Congress; énchelys (Gr. ἔγχελυς), eel

Luthulenchelys heemstraorum McCosker 2007 -orum, commemorative suffix (L.), plural: in honor of ichthyologists Phillip C. (1941–2019) and Elaine Heemstra, South African Institute for Aquatic Biodiversity, for their "efforts to understand, illustrate, and explain the fishes of the Indian Ocean to scientists and the general public"



Luthulenchelys heemstraorum, holotype, 472 mm TL. Illustration by Beth Herd Guy. From: McCosker, J. E. 2007. Luthulenchelys heemstraorum, a new genus and species of snake eel (Anguilliformes: Ophichthidae) from KwaZulu-Natal, with comments on *Ophichthus rutidoderma* (Bleeker, 1853) and its synonyms. Smithiana, Publications in Aquatic Biodiversity, Bulletin No. 7: 3-7.

Malvoliophis

Whitley 1934

Malvolio, Lady Olivia's steward in Shakespeare's *Twelfth Night*, referring to banded coloration of *M. pinguis*, suggestive of cross-gartered legs and yellow socks worn by that character;⁵ óphis (Gr. öφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Malvoliophis pinguis (Günther 1872) Latin for fat, possibly referring to its body being shorter than its tail

⁵ Etymology not explained in original description, but Whitley told McCosker in a pers. comm. See: McCosker, J. E. 1977. The osteology, classification, and relationships of the eel family Ophichthidae. Proceedings of the California Academy of Sciences (Series 4) 41 (1): 1–123.



First-published illustration of *Malvoliophis pinguis*. From: Günther, A. 1873. Reptiles and fishes of the South Sea Islands. *In*: Brenchley, J. L., Jottings during the cruise of H. M. S. Curaçao among the South Sea Islands in 1865. 1–487, PIs. 1–59.

Myrichthys Girard 1859

referring to its affinity to the genus Myrus (=Echelus); ichthýs (Gr. ἰχθύς), fish

Myrichthys aspetocheiros McCosker & Rosenblatt 1993 *áspetos* (Gr. ασπετος), unspeakably great; *cheirós* (Gr. χειρός), genitive of *cheir* (χείρ), hand (homologous to the pectoral fin), which is elongate and longer than snout

Myrichthys breviceps (Richardson 1848) *brevis* (L.), short; *-ceps* (New Latin), headed, "remarkable for its short blunt head"

Myrichthys colubrinus (Boddaert 1781) Latin for snake-like, referring to its extreme similarity to banded sea snakes that occupy shallow coral reefs over much (but not all) of its range

Myrichthys maculosus (Cuvier 1816) Latin for speckled, referring to brown to brownish-black spots on head and body

Myrichthys magnificus (Abbott 1860) Latin for splendid, presumably referring to the attractive appearance of its chocolate-brown spots

Myrichthys ocellatus (Lesueur 1825) Latin for having little eyes (ocelli), referring to eye-like spots (dark with small bright centers) on body

Myrichthys paleracio McCosker & Allen 2012 in honor of dive guide and underwater photographer Christopher "Peri" Paleracio, who collected holotype [a noun in apposition, without the patronymic "i"]

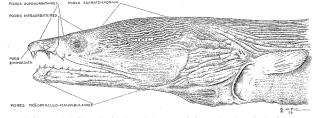
Myrichthys pantostigmius Jordan & McGregor 1898 pantós (Gr. παντός), all, whole or very; stigmius, Neo-Latin coinage apparently based on stigmosus (L.), marked or spotted, referring to numerous large brown to brownish-black spots along sides, at base of dorsal fin, and "covering the whole belly"

Myrichthys pardalis (Valenciennes 1839) párdalis (Gr. πάρδαλις), leopard, presumably referring to brown spots with bright centers on body

Myrichthys xysturus (Jordan & Gilbert 1882) spike-tailed, from xustón (Gr. ξυστόν), spike or shaft of spear, and urus, from ourá (Gr. οὐρά), tail, referring to pointed tail with sharp tip [sometimes known as *M. tigrinus* Girard 1859, a secondary homonym of *Muraena tigrina* Rüppell 1830 when both are in *Myrichthys*]



Myrichthys paleracio, approximately 500 mm TL, underwater photograph, Caban Island, Verde Channel, Luzon, Philippines. Photo by Gerald R. Allen. From: McCosker, J. E. and G. R. Allen. 2012. Description of a new snake eel (Pisces: Ophichthidae: Myrichthys) from the Philippines. aqua, International Journal of Ichthyology 18 (1): 35–40 + cover.



Mystriophis crosnieri. Illustration by Pierre Opic. From: Blache, J. 1971. Contribution à la connaissance des Poissons anguilliformes de la côte occidentale d'Afrique. Onzième note: les genres Mystriophis et Echiopsis (Fam. des Ophichthidae). Bulletin de l'Institut Fondamental d'Afrique Noire (Serie A) Sciences Naturelles 33 (1): 202–226.

Mystriophis Kaup 1856

mystrion (Gr. μυστρίον), diminutive of mýstron (μύστρον), spoon, referring to snout shape of *M. rostellatus*, rounded and narrow, like the shape of a spoon; *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Mystriophis crosnieri Blache 1971 in honor of French carcinologist Alain Crosnier (1930–2021), for his many collections [he initiated many deepwater trawl surveys, see *Dipturus crosnieri*, Rajidae] and "many informed opinions" (translation)

Mystriophis rostellatus (Richardson 1848) Neo-Latin adjective of *rostellum*, diminutive of *rostrum* (L.), snout, i.e., small-beaked, presumably referring to its narrow, rounded snout, like the shape of a spoon

Ophichthus⁶ Ahl 1789

ophi-, from óphis (Gr. ὄφις), serpent, referring to snake-like appearance of O. ophis; ichthus, variant spelling of ichthýos (Gr. ἰχθύος), fish

Ophichthus alleni McCosker 2010 in honor of American-born Australian ichthyologist Gerald R. Allen (b. 1942), Western Australia Museum (Perth), for his "numerous and diverse contributions to the knowledge of fishes of Australia and beyond"

Ophichthus altipennis (Kaup 1856) altus (L.), high; *pennis*, Neo-Latin adjective of *penna* (L.), fin, referring to its greatly developed fins, especially its high dorsal fin

Ophichthus aniptocheilos McCosker 2010 *ániptos* (Gr. ἄνιπτος), unwashed; *cheĨlos* (Gr. χεῖλος), lip, referring to brown speckling along edge of lips

Ophichthus apachus McCosker & Rosenblatt 1998 *a*-, Greek privative, without; *páchos* (Gr. πάχος), thickness, referring to its very slender and elongate body

Ophichthus aphotistos McCosker & Chen 2000 aphốtistos (Gr. ἀφώτιστος), dark or obscure, referring to both black coloration in life (grayish-brown to black in ethanol) and deepwater (700–800 m) habitat

Ophichthus apicalis (Anonymous [Bennett] 1830) Latin for apex or point, referring to how dorsal, anal and caudal fins converge to form a pointed tail

Ophichthus anneutes McCosker & Rosenblatt 1998 anneutés (Gr. ἀρνευτής), diver, referring to its occurrence at depths of 434–557 m and the use of the Johnson Sea-Link submersible to collect holotype

Ophichthus asakusae Jordan & Snyder 1901 of the Asakusa Aquarium, Tokyo, Japan, which supplied holotype

⁶ Four subgenera (in addition to *Ophichthus*) are recognized by some workers: *Centrurophis* Kaup 1856, *centrum* (L), sharp point, presumably referring to hard caudal tip (sharply pointed in some species, blunt in others), and *ophis* (Gr. öb(c), serpent, conventional termination for generic names of snake eels, referring to their snake-like appearance; *Coecilophis* Kaup 1856, *coecil.*, etymology not explained, perhaps a variant spelling of *coecilion*, the snake-like amphibian, which type species, *C. comphor* (=*O. apicalis*), superficially resembles, and *ophis* (see above). *Microdonophis* Kaup 1856, *micro*, from *mitrix*6 (Gr. μικρός), small, and *odon*, Latinized and grammatically adjusted from the Greek nominative óδούς (*dodus*), tooth, referring to minute but sharp teeth of *O. altipennis*, and *ophis* (see above); and *Omochelys* Fowler 1918, *omás* (Gr. ψικός), raw or ough (Fowler said "cruel") referring to "savage habits" of *O. cruentifer* (see entry for that species), and *chelys*, short for *énchelys* (Gr. ἕγχελυς), eel.

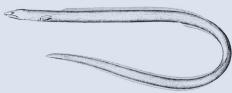
The unfairly "cruel" name of Ophichthus cruentifer

In 1896, American ichthyologists George Brown Goode (1851-1896) and Tarleton H. Bean (1846-1916) described a new species of snake eel from coastal waters of the western North Atlantic. They named it *Pisoodonophis* (now Ophichthus) cruentifer. They said the specific name means "Sanguinary,

cruel; in allusion to its habit of boring into the flesh of living fishes."

Goode & Bean believed that the eel used its pointed tail to bore into and parasitize living fishes. As confirmation, they cited two specimens of the eel taken from the bodies of fishes caught by anglers.

A half-century later, ichthyologists began finding evidence that rejected Goode & Bean's claim. In 1953, Charles Breder, Jr., of the American Museum of Natural History (AMNH), reported on a sea bass with a snake eel lodged in its coelom, the body cavity located between the intestinal canal and the body wall. Breder believed the sea bass had swallowed the eel,



Ophichthus cruentifer. From: Goode, G. B. and T. H. Bean. 1896. Oceanic ichthyology, a treatise on the deep-sea and pelagic fishes of the world, based chiefly upon the collections made by the steamers Blake, Albatross, and Fish Hawk in the northwestern Atlantic, with an atlas containing 417 figures. Special Bulletin U. S. National Mu-seum No. 2: Text: i–xxxv + 1–26 + 1–553, Atlas: i–xxiii, 1–26, 123 pls.

which then attempted to escape by "perforating the gut [with its sharp bony tail] and backing into the coelomic cavity where it finally expired." In other words, the eel was trying to bore its way out rather than in. Breder suspected that Goode & Bean's eels had died doing the same.

In 1955, Breder's colleague at AMNH, Vladimir Walters, reviewed other cases of predatory fishes with snake eels stuck inside their bodies. He noted that all of the predators fed on or near the bottom, where snake eels live. In 1976, as part of his Ph.D. dissertation, Charles Wenner (College of William and Mary), reported how captive specimens of O. cruentifer used their bony tail to bury themselves tail first in the aquarium substrate. The eel was also observed in the wild, at 250-350 m deep, from the Deep Submersible Research Vehicle Alvin. The burrowing behavior was not observed, but the eels were seen with only their heads exposed from the sandy substrate.

In recent years, more cases of "pseudoparasitism" involving snake eels have been reported. In 2011, Isbert et al. reported snake eels in three common pandoras (Pagellus erythrinus) from the north-western Mediterranean, two in the stomach and one embedded in the body cavity. In 2020, Barton et al. reported snake eels from the body cavities of ten Australian fish species classified in eight different families, all of them medium to large, opportunistic carnivores, suggesting that the eels were targeted rather than incidentally ingested.

In fairness to Goode and Bean, their belief that O. cruentifer bores into the flesh of living fishes may have been influenced by an eel that actually does. In 1879, Theodore Gill described Simenchelys parasitica, a deep-sea eel from both the Atlantic and Pacific oceans. Gill reported specimens that had burrowed into the flesh of a halibut. Other accounts verify their boring predatory behavior. In 1992, for example, two S. parasitica were discovered inside the heart of a Shortfin Mako Shark *Isurus oxyrinchus*, where they had lived and fed for some time. The eels had apparently burrowed into the shark through the gills or throat, entered the circulatory system, and then made their way to the heart.

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Isbert, W., Montero, F., Fernández, M., Lombarte, A., Sacanell, M., & Orejas, C. (2011). Ophichthids (Ophichthidae: Anguilliformes) within the body cavity of marine fishes: pseudoparasites? Marine Biodiversity Records 4, E33. doi:10.1017/S1755267211000285

Walters V. 1955. Snake-eels as pseudoparasites of fishes. Copeia 1955: 146-147.

Charles A. Wenner. 1976. Aspects of the biology and morphology of the snake eel, Pisodonophis cruentifer (Pisces, Ophichthidae). Journal of the Fisheries Research Board of Canada. 33(4): 656-665.

Ophichthus bicolor McCosker & Ho 2015 bi-, from bis (L.), twice, i.e., two-colored, referring to yellowish-tan body strongly contrasting with white throat and belly

Ophichthus bonaparti (Kaup 1856) in honor of French biologist Charles Lucien Bonaparte (1803–1857), who supplied holotype

Ophichthus brachynotopterus Karrer 1983 brachýs (Gr. βραχύς), short; nótos (Gr. νότος), back; pterus, Latinized adjective from pterón (Gr. πτερόν) or ptéryx (πτέρυξ), fin, presumably referring to posterior dorsalfin origin, making for a shorter dorsal fin [often dated 1982]

Ophichthus brasiliensis (Kaup 1856) -ensis, Latin suffix denoting place: Rio de Janeiro, Brazil, type locality (possibly erroneous)

Ophichthus brevicaudatus Chu, Wu & Jin 1981 brevis (L.), short; caudatus (L.), tailed, referring to shorter tail compared with O. stenopterus

Ophichthus brevidorsalis Chiu & Hibino 2019 brevis (L.), short; dorsalis (L.), of the back, referring to dorsal-fin origin behind pectoral-fin tip, easily distinguished from related species in which dorsal fin arises above or behind pectoral fin

Ophichthus brevirostris McCosker & Ross 2007 brevis (L.), short; rostris, Neo-Latin scientific adjective of rostrum (L.), snout, referring to short, blunt and rounded snout when viewed from above

Ophichthus celebicus (Bleeker 1856) -icus (L.), belonging to: Manado, Celebes (now Sulawesi), Indonesia, type locality

Ophichthus cephalozona Bleeker 1864 cephalo-, from kephalé (Gr. κεφαλή), head; zona (L.), band, referring to broad black band across nape

Ophichthus chennaiensis Das, Mohapatra, Rajendar & Bhaskar 2020 *-ensis*, Latin suffix denoting place: Chennai, Tamil Nadu, India, where type locality (Kasimedu fishing harbor) is situated

Ophichthus chilkensis Chaudhuri 1916 -*ensis*, Latin suffix denoting place: Chilka Lake (a brackish water lagoon), Odisha, India, type locality

Ophichthus congroides McCosker 2010 -oides, Neo-Latin from eidos (Gr. είδος), form or shape: referring to similarity of posterior nostril, which opens within outer lip, to that of some congrids

Ophichthus cruentifer (Goode & Bean 1896) Latin for bloody but authors say it means sanguinary (causing bloodshed) or cruel, reflecting their mistaken belief that it is a parasitic borer (specimens were found inside bodies of other fishes) [see essay on previous page]

Ophichthus cylindroideus (Ranzani 1839) -*eus*, Latin suffix, having the quality of: *cylindros*, from *kýlindros* (Gr. κύλινδρος), cylinder, referring to its body shape

Ophichthus echeloides (D'Ancona 1928) -oides, Neo-Latin from eidos (Gr. είδος), form or shape: described from a leptocephalus presumed to be in the family Echelidae (=Ophichthidae)

Ophichthus erabo (Jordan & Snyder 1901) Japanese name of venomous sea snake Platurus fasciatus (=Laticauda colubrina), which it resembles

Ophichthus exourus McCosker 1999 *éxouros* (Gr. ἕξουρος), conical (or, per McCosker, ending in a tapered point), referring to how its robust body tapers evenly to tail tip

Ophichthus fasciatus (Chu, Wu & Jin 1981) Latin for banded, described as having more than 20 vertical black bands on body

Ophichthus fowleri (Jordan & Evermann 1903) patronym not identified but certainly in honor of American ichthyologist Henry Weed Fowler (1878–1965), Academy of Natural Sciences of Philadelphia, and a student of Jordan's at Stanford University

Ophichthus frontalis Garman 1899 Latin for frontal, also used to indicate forehead, probably referring to "somewhat large" head

Ophichthus genie McCosker 1999 in honor of American ichthyologist Eugenia (Genie) B. Böhlke (1929–2001), Academy of Natural Sciences of Philadelphia, "friend and contributor to knowledge of apodal fishes" [presumably a noun in apposition, without the matronymic "*ae*"]

Ophichthus gomesii (Castelnau 1855) in honor of physician-botanist Antônio Ildefonso Gomes de Freitas (1794–1859), who cured Castelnau of a malady in Rio de Janeiro

Ophichthus grandoculis (Cantor 1849) grandis (L.), large; oculis, artificially derived from oculus (L.), eye, referring to its "comparatively large" eye, which "occupies nearly the whole space between the lip and the profile"

Ophichthus hirritus McCosker 2010 Latin for snarling (like a dog), referring to how its jaw teeth are exposed and lips do not meet when mouth is closed

Ophichthus humanni McCosker 2010 in honor of Paul Humann (b. 1937), American underwater photographer, author and friend, who has "generously aided ichthyologists with his photographs and observations"

Ophichthus hyposagmatus McCosker & Böhlke 1984 hypó (Gr. ὑπό), somewhat; ságmatos (Gr. σάγματος), genitive of ságma (σάγμα), pack-saddle, referring to 16 faint tan saddles along body

Ophichthus ishiyamorum McCosker 2010 -*orum* (L.), commemorative suffix, plural: in honor of sibling philanthropists Nelson (b. 1944) and Patsy (b. 1937) Ishiyama for their interest in, and generous support of, ichthyological research

Ophichthus johnmccoskeri Mohapatra, Ray, Mohanty & Mishra 2018 in

honor of American ichthyologist John E. McCosker (b. 1945), California Academy of Sciences, for "vast" contributions to the taxonomy of ophichthid eels

Ophichthus kailashchandrai Mohapatra, Ray, Mohanty & Mishra 2020 in honor of Kailash Chandra, Director, Zoological Survey of India, for his "vast" contributions to Indian animal taxonomy

Ophichthus kunaloa McCosker 1979 named for Kuna Loa, the Long Eel of ancient Hawaiian legends, whose cut tail evolved into to the common conger eel and whose blood gave rise to all other Hawaiian eels ("This, clearly," McCosker wrote, "was the first attempt at a phylogenetic interpretation of Hawaiian anguilliforms.")

Ophichthus kusanagi Hibino, McCosker & Tashiro 2019 named for the ancient holy sword *kusanagi-no-tsurugi* (one of the Three Imperial Regalia of Japan), which was used by the legendary Japanese prince Yamato Takeru no Mikoto (ca. 72–114) for cutting grass and avoiding disaster at Suruga-no-kuni (now Shizuoka Prefecture), where type locality (Suruga Bay) is situated

Ophichthus lentiginosus McCosker 2010 Latin for freckled, referring to fine dark freckles over its entire body

Ophichthus leonensis Blache 1975 -*ensis*, Latin suffix denoting place: off the coast of Sierra Leone, type locality and only known area of occurrence

Ophichthus limkouensis Chen 1929 -*ensis*, Latin suffix denoting place: Limkou, Kwangtung, China, type locality

Ophichthus lithinus (Jordan & Richardson 1908) *lithinos* (Gr. λίθινος), made of stone ("marbled, like stone," per the authors), referring to dark mottling on dorsal surface and sides, tending in places to form vague crossbands

Ophichthus longicorpus Vo & Ho 2021 longus (L.), long; corpus (L.), body, referring to its "very long" trunk (4.1–4.9 times HL)

Ophichthus longipenis McCosker & Rosenblatt 1998 *longus* (L.), long; *penis* (L.), tail, referring to its long tail, 74–80% of TL

Ophichthus lupus Hibino, McCosker & Tashiro 2019 Latin for wolf, referring to wolf-like shape of snout, described as "long and acute"

Ophichthus machidai McCosker, Ide & Endo 2012 in honor of Japanese ichthyologist Yoshihiko Machida, who guided second author (Sachiko Ide) through her thesis at Kochi University, Kochi, Japan

Ophichthus macrochir (Bleeker 1852) macro-, from makrós (Gr. μακρός), long or large; *chir*, from *cheír* (Gr. χείρ), hand (homologous to the pectoral fin), referring to its long pectoral fins, ½ length of head

Ophichthus macrops Günther 1910 macro-, from makrós (Gr. μακρός), long or large; *ό̄ps* (Gr. $\tilde{\omega}\psi$), eye, referring to its large eyes, ½ as long as snout and nearly ½ length of head

Ophichthus maculatus (Rafinesque 1810) Latin for spotted, referring to scattered spots on body

Ophichthus manilensis Herre 1923 -ensis, Latin suffix denoting place: Manila, referring to Manila Bay (Cavite, Philippines) and/or to Tondo market in Manila, co-type localities

Ophichthus marginatus (Peters 1855) Latin for edged or bordered, referring to black edge on dorsal fin

Ophichthus mccoskeri Sumod, Hibino, Manjabrayakath & Sanjeevan 2019 in honor of American ichthyologist John E. McCosker (b. 1945), California Academy of Sciences, for his "immense contributions to ophichthid eel systematics and phylogeny"

Ophichthus mecopterus McCosker & Rosenblatt 1998 long-finned, from *meco-*, from *mékos* (Gr. μῆκος), length (authors say "long"), and *pterus*, from *pterón* (Gr. πτερόν) or *ptéryx* (πτέρυξ), fin, referring to its elongate pectoral fins

Ophichthus megalops Asano 1987 mega-, from mégas (Gr. μέγας), big;

ốps (Gr. $\tilde{\omega}\psi$), eye, referring to its "remarkably" large eyes

Ophichthus melanoporus Kanazawa 1963 black-pored, from *mélanos* (Gr. μέλανος), genitive of *mélas* (μέλας), black, and *póros* (Gr. πόρος), hole or pore, referring to conspicuous black pores on head and lateral line

Ophichthus melope McCosker & Rosenblatt 1998 mélas (Gr. μέλας), black; *opé* (Gr. ὀπή), opening or hole, referring to head pores conspicuously surrounded by rings, or melanophores

Ophichthus menezesi McCosker & Böhlke 1984 in honor of Brazilian ichthyologist Naercio A. Menezes (b. 1937), for his "generous contributions" of specimens, including holotype of this one, to the authors' eel research

Ophichthus microcephalus Day 1878 small-headed, from *mikrós* (Gr. μικρός), small, and *kephalé* (Gr. κεφαλή), head, referring to its smaller head compared with *Pisodonophis boro* and *Myrichthys colubrinus*, its presumed congeners at the time

Ophichthus microstictus McCosker 2010 micro-, from mikrós (Gr. μικρός), small; stictus, from stiktós (Gr. στικτός), pricked or spotted, referring to its minute cephalic pores

Ophichthus mystacinus McCosker 1999 scientific Neo-Latin adjective of *mýstax* (Gr. μ úστα{), moustache, referring to high density of dark spots surrounding base of anterior nostril tubes, "appearing like a faint mustache"

Ophichthus naevius Kodeeswaran, Kathirvelpandian, Mohapatra, Kumar & Sarkar 2023 Latin for having moles or spots, referring to numerous dark spots on dorsal surface of body

Ophichthus naga McCosker & Psomadakis 2018 Nāga, a seagoing, serpentine dragon-like being in Buddhism that has great powers; they are able to swim through the earth as if it was water, a behavior not unlike that of ophichthid eels

Ophichthus nansen McCosker & Psomadakis 2018 named for the EAF-Nansen Prorgramme and in honor of Fridtjof Nansen (1861–1930), "famous" Norwegian explorer and scientist for whom the programme and research vessel were named; since 1975, the "EAF-Nansen Programme has contributed to increasing the knowledge of global marine biodiversity while supporting developing countries in fisheries research and sustainable management of their resources throughout surveys at sea and capacity building" [a noun in apposition, without the patronymic "i"]

Ophichthus nigroventralis Kodeeswaran, Mohapatra & Kumar 2023 *nigro-*, from *niger* (L.), dark or black; *ventralis* (L.), of the belly, referring to numerous black dots on abdomen

Ophichthus obtusus McCosker, Ide & Endo 2012 Latin for blunt or dull, referring to its short and conical snout

Ophichthus oligosteus Hibino, McCosker & Tashiro 2019 oligos (Gr. όλίγος), few or scanty; osteus (Neo-Latin), bony, from ostéon (Gr. όστέον), bone, having the fewest vertebrae (46 preanal and 121 overall) in the genus

Ophichthus olivaceus McCosker & Bogorodsky 2020 Latin for olivecolored, referring to dark tan with olivaceous hue color in life

Ophichthus omorgmus McCosker & Böhlke 1984 Latinization of ómorgma (Gr. ὄμοργμα), that which is wiped off or swept away (i.e., spot, stain or dirt, whereas authors say name means "spotted"), referring to conspicuous spots (black pores) around lateral line

Ophichthus ophis (Linnaeus 1758) *óphis* (Gr. ὄφις), serpent, referring to its snake-like appearance

Ophichthus pallens (Richardson 1848) Latin for pale or pallid, referring to its "pale honey-yellow or faint wood-brown" coloration, "lighter on the belly, and without spots"

Ophichthus polyophthalmus Bleeker 1864 *polý*- (Gr. πολύ), many; *ophthalmós* (Gr. ὀφθαλμός), eye, referring to numerous ocellated (eye-like) spots on head and body

Ophichthus pratasensis Ho, Ng & Lin 2022 *-ensis*, Latin suffix denoting place: Pratas Island, the only island of Dongsha Atoll, "whose large coral reefs surrounded by deep sea are situated near the holotype's collection site. With this name we also hope to call attention to the possible damage that frequent fishery activity in the area might be causing to the environment and natural resources of Dongsha Atoll."

Ophichthus pullus McCosker 2005 Latin for dark, referring to uniform gray-brown-to-black coloration in ethanol

Ophichthus puncticeps (Kaup 1859) punctum (L.), dot; -ceps (Neo-Latin), headed, referring to characteristic pattern of white dots and dashes on snout and head

Ophichthus remiger (Valenciennes 1837) etymology not explained nor evident, possibly *remus* (L.), oar, and *-iger* (L.), to bear (if so, allusion not evident); Valenciennes changed spelling to *ramiger*, leading to speculation that name refers to Port Rame, Chile, type locality (no contemporary locality has that name, possibly referring to present-day Estero Rama, south of Valparaiso)⁷

Ophichthus retrodorsalis Liu, Tang & Zhang 2010 retro- (L.), behind; *dorsalis* (L.), of the back, referring to dorsal-fin origin far behind tip of pectoral fins

Ophichthus rex Böhlke & Caruso 1980 Latin for king, referring to preeminently large size (>2 m has been reported)

Ophichthus rotundus Lee & Asano 1997 Latin for round or circular, referring to almost completely cylindrical body shape

Ophichthus rufus (Rafinesque 1810) Latin for red or reddish, referring to color of head (actually yellow-brown)

Ophichthus rugifer Jordan & Bollman 1890 *ruga* (L.), wrinkle or crease; *fero* (L.), to have or bear, referring to longitudinal striations obvious on larger specimens

Ophichthus rutidoderma (Bleeker 1852) rutido-, from rhytidṓdēs (Gr. ὑυτιδώδης), wrinkled; dérma (Gr. δέρμα), skin, referring to longitudinal furrows on skin

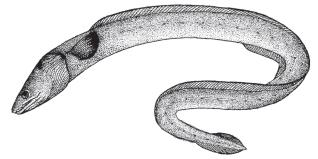
Ophichthus sangjuensis (Ji & Kim 2011) -ensis, Latin suffix denoting place: Sangju, South Sea of Korea, type locality

Ophichthus semilunatus Hibino & Chiu 2019 semi-, from semis (L.), a half or moiety; *lunatus* (L.), lunate, referring to half-moon blotch on anterior margin of anus

Ophichthus serpentinus Seale 1917 Latin for snake-like, probably referring to its elongate, cylindrical and hence snake-like shape

Ophichthus shaoi McCosker & Ho 2015 in honor of Taiwanese ichthyologist and marine ecologist Kwang-Tsao Shao (b. 1951), Biodiversity Research Center, Academia Sinica, Taiwan

Ophichthus singapurensis Bleeker 1864 -*ensis*, Latin suffix denoting place: Singapore, type locality



Ophichthus tchangi, holotype, 501 mm TL. From: Tang, W.-Q. and C.-G. Zhang. 2002. One new species of the family Ophichthidae from East China Sea (Pisces: Anguilliformes). Acta Zootaxo-nomica Sinica 27 (4): 854–856.

⁷ McCosker, J. E. and R. H. Rosenblatt. 1998. A revision of the eastern Pacific snake-eel genus Ophichthus (Anguilliformes: Ophichthidae) with the description of six new species. Proceedings of the California Academy of Sciences 50 (19): 397–432. **Ophichthus spinicauda (Norman 1922)** spina (L.), thorn or spine; cauda (L.), tail, referring to short section of erect and thickened ("spinous") rays in posterior segment of dorsal fin (near tail)

Ophichthus suryai Behera, Acharya, Mishra & Mohapatra 2024 in honor of Surya Kumar Mohanty, former Joint Director of Fisheries, Odisha, and former Fisheries Consultant, Chillika Development Authority, for his "remarkable" contribution to the fisheries of Odisha, India

Ophichthus tchangi Tang & Zhang 2002 in honor of Tchunlin Tchang (1897–1963), Curator of Zoology, Fan Memorial Institute of Biology, "China's leading authority on ichthyology and fishery science"

Ophichthus tetratrema McCosker & Rosenblatt 1998 tetrá (Gr. τετρά), four; tréma (Gr. τρῆμα), hole, referring to unique presence of four preopercular pores

Ophichthus tomioi McCosker 2010 in honor of American ichthyologist Tomio Iwamoto (b. 1939), California Academy of Sciences, friend and colleague who captured holotype

Ophichthus triserialis (Kaup 1856) tri- (L.), three; serialis (L.), rowed, referring to two rows of large, round spots on dorsal fin and lateral line, and a third row going as far as anus

Ophichthus unicolor Regan 1908 *uni-*, from *unus* (L.), one, referring to uniformly brownish coloration

Ophichthus urolophus (Temminck & Schlegel 1846) *uro,* from *ourá* (Gr. oüpά), tail; *lóphos* (Gr. λόφος), mane or crest, referring to elevated posterior portions of vertical (dorsal and anal) fins (which, as in all eels, converge at the tail)

Ophichthus vietnamensis Vo, Hibino & Ho 2019 -ensis, Latin suffix denoting place: off Ky Ha, central coast of Vietnam, type locality

Ophichthus woosuitingi Chen 1929 in honor of S. T. (Sui-ting) Woo, Sun Yat-sen University (Guangzhou, China), assistant to Prof. H. N. Fey, who (Fey) discovered this species

Ophichthus yamakawai Hibino, McCosker & Tashiro 2019 in honor of Takeshi Yamakawa (b. 1942), Kochi University (Japan), a fish collecting specialist and ichthyologist, for his "great" contributions to taxonomy and the study of Japanese fishes

Ophichthus zophistius (Jordan & Snyder 1901) zopherós (Gr. ζοφερός), dusky or gloomy; *istius*, from *histion* (Gr. ἰστίον), sail (i.e., dorsal fin), referring to "posteriorly dusky" dorsal fin, with a broad black edge

Ophichthus zophochir Jordan & Gilbert 1882 zóphos (Gr. ζόφος), darkness; chir, from cheír (Gr. χείρ), hand (homologous to the pectoral fin), referring to occasionally black pectoral fin on adults

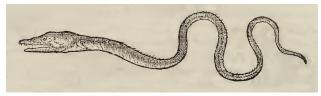
Ophisurus

Lacepède 1800

óphis (Gr. ὄφις), serpent, referring to snake-like appearance, and urus, from ourá (Gr. οὐρά), tail, referring to pointed (i.e., snake-like) caudal fin of O. serpens

Ophisurus macrorhynchos Bleeker 1853 macro-, from makrós (Gr. μακρός), long; *rhýnchos* (Gr. ῥύγχος), snout, referring to its long, sharp snout

Ophisurus serpens (Linnaeus 1758) Latin for snake, referring to its serpentine shape and habits, and reflecting a vernacular (e.g., sea snake, serpent marin, serpent de mer) that dates to Aristotle



"De Serpente marino," as illustrated in one of the publications from which Linnaeus based his description of Muraena (now Ophisurus) serpens. From: Rondelet, G. 1554. Libri de piscibus marinis, in quibus veræ piscium effigies expressæ sunt. M. Bonhomme, Lugduni (Lyon). i–xiv + 1–583 + i–xisii (unnumbered).



Paraletharchus pacificus, holotype, 139.7 mm TL. Illustration by K. Kimoto. From: Osburn, R. C. and J. T. Nichols. 1916. Shore fishes collected by the "Albatross" expedition in Lower California, with descriptions of new species. Bulletin of the American Museum of Natural History 35 (16): 139–181.

Paraletharchus McCosker 1974

IVICCOSKET 1974

pará (Gr. παρά), beside or near, representing a separate generic lineage from *Letharchus*, in which *P. pacificus* had previously been placed

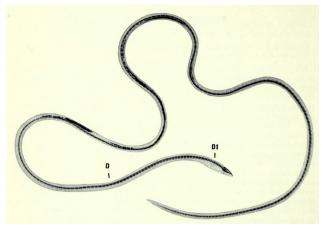
Paraletharchus opercularis (Myers & Wade 1941) Latin for opercular, referring to "pendulous, operculumlike fold of skin hanging down over and screening gill openings"

Paraletharchus pacificus (Osburn & Nichols 1916) -*icus* (L.), belonging to: referring to its occurrence in the Eastern Pacific compared with the Gulf of Mexico distribution of its presumed congener Letharchus velifer

Phaenomonas Myers & Wade 1941

phanerós (Gr. φανερός), visible; mónas (Gr. μόνας), single, referring to absence of all fins except for a "brief, anteriorly placed, well-defined dorsal fin"

Phaenomonas cooperae Palmer 1970 in honor of Jane M. Cooper, Department of Cooperative Society, Suva, Fiji, who collected holotype while living at Betio, Tarawa, in the Gilbert Islands (Kiribati, Western Pacific)



Phaenomonas cooperae, x-ray of holotype, 513 mm TL D−D1 = position of dorsal fin. From: Palmer, G. 1970.New records, and one new species, of teleost fishes from the Gilbert Islands. Bulletin of the British Museum (Natural History) Zoology 19 (6): 213–234.

Phaenomonas foresti (Cadenat & Roux 1964) in honor of French carcinologist Jacques Forest (1920–2012), who led *Calypso* mission that collected holotype at Cape Verde Islands

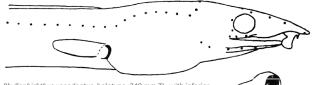
Phaenomonas longissima (Cadenat & Marchal 1963) Latin for very long, referring to its extreme length (498 mm TL in type series, up to 553 mm TL known)

Phaenomonas pinnata Myers & Wade 1941 Latin for finned but possibly used here as a diminutive of *pinna* (L.), fin, referring to "brief, anteriorly placed, well-defined dorsal fin" (eel is otherwise finless)

Phyllophichthus Gosline 1951

phýllon (Gr. φύλλον), leaf, referring to anterior nostrils with posterior borders extending downward into leaf-like appendages; *Ophichthus*, type genus of family

Phyllophichthus xenodontus Gosline 1951 xen-, from xenikós (Gr. ξενικός), strange (i.e., different); odontus, Latinized and grammatically



Phyllophichthus xenodontus, holotype, 240 mm TL, with inferior view of anterior nostrils. From: Gosline, W. A. 1951. The osteology and classification of the ophichthid eels of the Hawaiian Islands. Pacific Science 5 (4): 298–320.



adjusted from the Greek nominative $\delta\delta\omega\zeta$ (*odoús*), tooth, referring to dentition, different from all other ophichthids (two rows of conical teeth on intermaxillary plate; single row of smaller teeth on inner border of each maxillary; no vomerine teeth; mandibular teeth large, uniserial, well outside of maxillary teeth and projecting directly laterally)

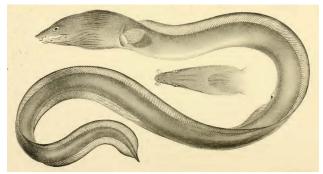
Pisodonophis

Kaup 1856 pis, from pisum (L.), pea, and odon, Latinized and grammatically adjusted from the Greek nominative ὀδούς (odoús), tooth, referring to granular, pea-shaped teeth: óphis (Gr. ὄφις), serpent, conventional

to granular, pea-shaped teeth; *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Pisodonophis boro (Hamilton 1822) Bengali vernacular for this eel, presumably derived from *boro*, a variety of rice, possibly alluding to this anadromous eel's occurrence (and reported spawning) in rice paddies

Pisodonophis cancrivorus (Richardson 1848) *cancer* (L.), crab; *-vorus* (L.), eating, allusion not explained but clearly referring to its crab diet



Pisodonophis cancrivorus. From: Richardson, J. 1844–48. Ichthyology of the voyage of H.M.S. Erebus & Terror. In: J. Richardson & J. E. Gray (eds.). The zoology of the voyage of H.M.S. Erebus & Terror, under the command of Capitain Sir J. C. Ross, R.N., F.R.S., during the years 1839 to 1843. E. W. Janson, London. [Pages 75–139 published in 1848.]

Pisodonophis copelandi Herre 1953 in honor of American botanist Edwin Bingham Copeland (1873–1964), founder of the Philippine College of Agriculture and friend to both Herre and the Philippine people

Pisodonophis daspilotus Gilbert 1898 da- (Gr. δα), intensive prefix, i.e., very or exceedingly; spilõtós (Gr. σπιλωτός), marked or stained, presumably referring to thick covering of black spots on head and body

Pisodonophis hijala (Hamilton 1822) presumably Bengali vernacular for this eel

Pisodonophis hoeveni (Bleeker 1853) in honor of the "famous" (translation) Dutch zoologist, Jan van der Hoeven (1801–1868)

Pisodonophis hypselopterus (Bleeker 1851) high-finned, from *hypsēlós* (Gr. ὑψηλός), high, and *pterus*, from *pterón* (Gr. πτερόν) or *ptéryx* (πτέρυξ), fin, referring to elevated dorsal and, especially, anal fins

Pisodonophis kalinga Mohanty, Behera, Acharya, Patnaik, Ray, Seth, Patro, Mishra & Mohapatra 2023 Kalinga, historical name of Odisha, India, where type localities (Chilika lagoon and Palur canal, connecting link between the Bay of Bengal and Chilika) are situated

Pisodonophis semicinctus (Richardson 1848) semi-, from semis (L.), a half or moiety; cinctus (L.), belted or girdled, referring to 18 deep purplish-brown spots or bars that band around upper half of body, fading away below lateral line, except for last three, which encircle tail

Quassiremus Jordan & Davis 1891

quassus, from quatio (L.), to move or shake, i.e., shaken, beaten, broken in pieces, battered or shattered (authors say "obliterated"); remus (L.), oar, referring to minute pectoral fins of *Q. evionthas* and *O. notochir*

Quassiremus ascensionis (Studer 1889) -*is*, Latin genitive singular of: east of Ascension Island, South Atlantic Ocean, type locality



Quassiremus ascensionis. From: Studer, T. 1889. Die Forschungsreise SMS "Gazelle" in den Jahren 1874 bis 1876 unter Kommando des Kapitän zur See Freiherrn von Schleinitz ...III. Theil: Zoologie und Geologie. Berlin. i–vi + 1–322, Pls. 1–33.

Quassiremus evionthas (Jordan & Bollman 1890) *ev*-, Latinization of $e\hat{u}$ - (Gr. $\epsilon\tilde{u}$), well or very; *ionthás* (Gr. iov $\theta\alpha\varsigma$), shaggy but used here to mean freckled, referring to small black spots over body

Quassiremus nothochir (Gilbert 1890) nóthos (Gr. νόθος), spurious; chir, from cheír (Gr. χείρ), hand (homologous to the pectoral fin), referring to its minute pectoral fins

Quassiremus polyclitellum Castle 1996 polý- (Gr. $\pi o\lambda \dot{u}$), many; clitellum, from clitellae (L., only in plural), pack-saddle, referring to 16–20 prominent saddle-shaped bars across dorsum

Rhinophichthus McCosker 1999

rhinós (Gr. ῥινός), genitive of rhís (ῥίς), snout, referring to conical snout, tapering evenly to a sharp point; Ophichthus, type genus of family

Rhinophichthus penicillatus McCosker 1999 -*atus* (L.), having the nature of: *penicillus* (L.), pencil, referring to sharpened-pencil appearance of both head and tail

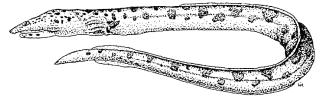


Rhinophichthus penicillatus, holotype, 457 mm TL. Illustration by Molly Brown. From: McCosker, J. E. 1999. Pisces Anguilliformes: deepwater snake eels (Ophichthidae) from the New Caledonia region, southwest Pacific Ocean. Mémoires du Muséum National d'Histoire Naturelle, Paris (N. S.) (Série A) Zoologie No. 180: 571–588.

Scytalichthys Jordan & Davis 1891

skytálē (Gr. σκυτάλη), serpent or viper, one of the many venomous snakes born from the blood of Medusa in the Libyan desert, presumably referring to its snake-like appearance; *ichthýs* (Gr. ἰχθύς), fish

Scytalichthys miurus (Jordan & Gilbert 1882) short-tailed, from $meió\bar{o}$ (Gr. μειόω), to lessen or diminish, i.e., shortened or curtailed, and *urus*, from *ourá* (Gr. οὐρά), tail, referring to its "unusually short" tail



Possibly the first-published illustration (113 years after its description) of *Scytalichthys miurus*. From: McCosker, J. E. and R. H. Rosenblatt. 1995. Ophthichthidae. *In*: Fischer, W., F. Krupp, W. Schneider, C. Sommer, K. E. Carpenter and V. H. Niem. Guía FAO para la identificación para los fines de la pesca. Pacifico centro-oriental. Volumen III. Vertebrados Parte 2. 1201–1813

Stictorhinus

Böhlke & McCosker 1975

stiktós (Gr. στικτός), pricked or punctured; rhinus, from rhinós (Gr. ṗtvóς), genitive of rhís (ṗ́tς), snout, referring to its tubeless anterior nostrils, which consist of a hole with lateral fleshy projections into it

Stictorhinus potamius Böhlke & McCosker 1975 -*ius* (L.), pertaining to: *potamós* (Gr. ποταμός), river, referring to its freshwater habitat (Amazon and Orinoco River basins)



Stictorhinus potamius, paratype, 316.5 mm TL. From: Böhlke, J. E. and J. E. McCosker. 1975. The status of the ophichthid eel genera *Caecula* Vahl and *Sphagebranchus* Bloch, and the description of a new genus and species from fresh waters in Brazil. Proceedings of the Academy of Natural Sciences of Philadelphia 127 (1): 1–11.

Suculentophichthus

Fricke, Golani & Appelbaum-Golani 2015 suculentus (L.), succulent, referring to succulent-leaf shaped snout appendages, characteristic of genus; *Ophichthus*, type genus of family

Suculentophichthus nasus Fricke, Golani & Appelbaum-Golani 2015 Latin for nose, referring to its nose-like snout



Presumed specimen of *Suculentophichthus nasus*, Red Sea, Gulf of Aqaba, Israel, Eilat, North beach. Photographer unknown. From: Fricke, R., D. Golani and B. Appelbaum-Golani. 2015. *Suculentophichthus nasus*, a new genus and new species of snake eel from the northern Gulf of Aqaba, Red Sea (Teleostei: Ophichthidae). Journal of the Ocean Science Foundation 16: 56–66.

Xestochilus McCosker 1998

xestós (Gr. ξεστός), hewn or shaven; cheźlos (Gr. χεῖλος), lip, referring to smooth (without a crease, split or barbel) upper lip

Xestochilus nebulosus (Smith 1962) Latin for cloudy, referring to "variable dusky cloudings" over most of dorsal surface on larger, older specimens



Xestochilus nebulosus, holotype, 470 mm TL (outer), and paratype, 145 mm TL (inner). Illustrations by Margaret Mary Smith. From: Smith, J. L. B. 1962. Sand-dwelling eels of the Western Indian Ocean and the Red Sea. Ichthyological Bulletin, Department of Ichthyology, Rhodes University 24: 447–466, Pls. 63–68.

Xyrias

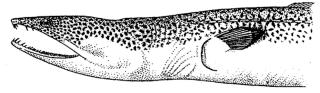
Jordan & Snyder 1901 from xuréō (Gr. ξυρέω), to shave, referring to absence of cirri on lips of X. revulsus (authors say name is from ξυρίας, which they translate as "shaveling")

Xyrias anjaalai Augustina, Sreeram, Sukumaran, Jose & Sreekumar 2020 common name of this eel among Malayalam- and Tamil-speaking local fishing communities in the southern parts of Kerala and Tamil Nadu states of India

Xyrias chioui McCosker, Chen & Chen 2009 in honor of Capt. Jiun-Shiun Chiou, who captured and donated holotype other important eel specimens to the laboratory of the National Taiwan Ocean University

Xyrias guineensis (Blache 1975) -*ensis*, Latin suffix denoting place: Gulf of Guinea, off Pointe-Noire, Republic of the Congo, type locality

Xyrias multiserialis (Norman 1939) multi- (L.), many; serialis (L.), rowed, presumably referring to eight series or rows of teeth in upper jaw



Xyrias multiserialis. From: Norman, J. R. 1939. Fishes. The John Murray Expedition 1933–34. Scientific Reports, John Murray Expedition (1): 1–116.

Xyrias revulsus Jordan & Snyder 1901 Latin for smooth-shaven or twice plucked, referring to the absence of cirri on its lips

Yirrkala Whitley 1940

named for Yirrkala, Gulf of Carpentaria, Queensland, Australia, type locality of *Y. chaselingi*

Yirrkala calyptra McCosker 2011 from *kalýptra* (Gr. καλύπτρα), veil, referring to its distinctive black facial slash

Yirrkala chaselingi Whitley 1940 in honor of Rev. Wilbur S. Chaseling (1910–1989), Methodist missionary at Yirrkala, Australia (type locality), who "presented" holotype

Yirrkala fusca (Zuiew 1793) Latin for dusky, dark or swarthy, referring to its uniform dark coloration

Yirrkala gjellerupi (Weber & de Beaufort 1916) in honor of Danish botanist and army surgeon Knud Gjellerup (1876–1950), who collected holotype

Yirrkala insolitus McCosker 1999 Latin for unusual or strange, referring to dorsal-fin origin far posterior to that of other *Yirrkala*, and to depth of capture (59 m), deeper than its shallow-water congeners

Yirrkala kaupii (Bleeker 1858) in honor of German naturalist (and apodal fish expert) Johann Jacob Kaup (1803–1873), for his many ichthyological discoveries

Yirrkala lumbricoides (Bleeker 1864) -*oides*, Neo-Latin from *eidos* (Gr. είδος), form or shape: *lumbricus* (L.), earthworm, referring to its vermiform body shape

Yirrkala macrodon (Bleeker 1863) macro-, from makrós (Gr. μακρός), long or large; odon, Latinized and grammatically adjusted from the Greek nominative όδούς (odoús), tooth, referring to larger, stronger teeth compared with Sphagebranchus (=Lamnostoma) polyophthalma and S. (L.) bicolor (the latter being a taxon of uncertain validity)

Yirrkala maculata (Klausewitz 1964) Latin for spotted, referring to row of elongated dark brown spots above lateral line that gradually merge into each other near anus, and/or to small dots under lateral line, each one corresponding to a lateral-line pore

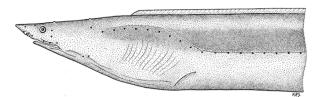
Yirrkala misolensis (Günther 1872) - ensis, suffix denoting place: Misool

Island (misspelled Misol), Irian Jaya, Indonesia, type locality

Yirrkala moluccensis (Bleeker 1864) -ensis, Latin suffix denoting place: Ambon Island, Moluccas Islands, Indonesia, type locality

Yirrkala moorei McCosker 2006 in honor of Intel co-founder and philanthropist Gordon E. Moore (1929–2023), for "his interest in fishes, his love of fishing, and his support of biodiversity research and conservation"

Yirrkala omanensis (Norman 1939) -ensis, Latin suffix denoting place: Gulf of Oman, type locality and only known area of occurrence



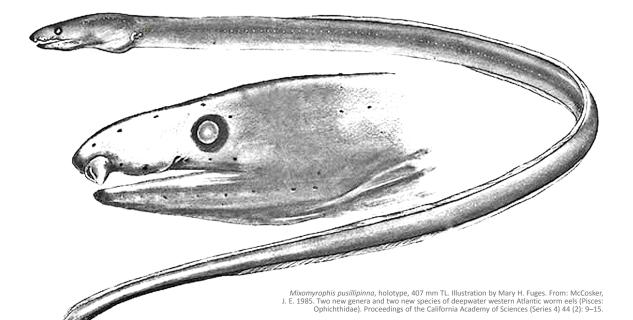
Yirrkala moorei, holotype, immature male, 434 mm TL. Illustration by Kathy Smith. From: McCosker, J. E. 2006. A new species of sand eel, Yirrkala moorei (Anguilliformes: Ophichthidae), from the South Pacific. Proceedings of the California Academy of Sciences (Series 4) 57 (10): 373–377. *Yirrkala ori* McCosker 2011 named for the Oceanographic Research Institute (ORI) of South Africa, which collected holotype and many other "valuable" specimens

Yirrkala philippinensis (Herre 1936) -ensis, Latin suffix denoting place: referring to type locality at Dumaguete, Oriental Negros, Philippines

Yirrkala tenuis (Günther 1870) Latin for thin or slender, probably referring to its thin, elongate body The ETYFish Project © Christopher Scharpf

Order ANGUILLIFORMES

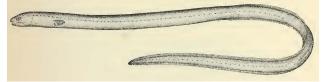
Worm Eels Family OPHICHTHIDAE Subfamily MYROPHINAE Kaup 1856



Ahlia Jordan & Davis 1891

 -ia (L. suffix), belonging to: Jonas Nicholas Ahl (1765–1817), Swedish physician and student of Linnaeus, whose 1789 thesis ("De Muraena et Ophichtho") "furnishes the beginning of our systematic arrangement of the eels"

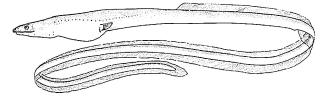
Ahlia egmontis (Jordan 1884) -is, Latin genitive singular of: Egmont Key, Florida, USA, type locality



Possibly first-published image of *Ahlia egmontis*, holotype, ~380 mm TL. Illustration by H. L. Todd. From: Jordan, D. S. and B. W. Evermann. 1900. The fishes of North and Middle America: a descriptive catalogue of the species of fish-like vertebrates found in the waters of North America, north of the Isthmus of Panama. Part IV. Bulletin of the United States National Museum No. 47: i–ci + 3137–3313, Pls. 1–392.

Asarcenchelys

McCosker 1985 ásarkos (Gr. ἄσαρκος), without flesh or lean, referring to its "emaciated" appearance; énchelys (Gr. ἔγχελυς), eel



Asarcenchelys longimanus, holotype, 215 mm TL; reconstructed image of specimen badly torn in the anterior trunk region. Illustration by Amy Pertschuk. From: McCosker, J. E. 1985. Two new genera and two new species of deepwater western Atlantic worm eels (Pisces: Ophichthidae). Proceedings of the California Academy of Sciences (Series 4) 44 (2): 9–15. Asarcenchelys longimanus McCosker 1985 longus (L.), long; manus (L.), hand (homologous to the pectoral fin), referring to elongate pectoral fins

Benthenchelys

Fowler 1934 bénthos (Gr. βένθος), of the sea (Fowler said "of the depths"), referring to deepwater habitat of *B. cartieri* (collected at 1252.73 m); énchelys (Gr. ἔγχελυς), eel

Benthenchelys cartieri Fowler 1934 in honor of German herpetologistichthyologist Oscar Cartier, University of Würzburg, who studied Philippine fishes in 1874

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Benthenchelys cartieri, holotype, 317 mm TL. Illustration by Henry Weed Fowler. From: Fowler, H. W. 1934. Descriptions of new fishes obtained 1907 to 1910, chiefly in the Philippine Islands and adjacent seas. Proceedings of the Academy of Natural Sciences of Philadelphia 85 (for 1933): 233–367.

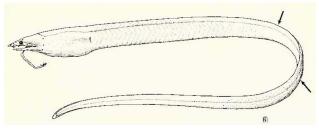
Benthenchelys indicus Castle 1972 -icus (L.), belonging to: known only from the Indian Ocean

Benthenchelys pacificus Castle 1972 -*icus* (L.), belonging to: known only from the Central Pacific

Glenoglossa

McCosker 1982

glénos (Gr. γλῆνος), trinket, bijou or jewel (McCosker said "a thing to stare at"); glóssa (Gr. γλῶσσα), tongue, referring to its elongate tongue,



Glenoglossa wassi, holotype, 153.5 mm TL. Arrows indicate origin of dorsal and anal fins. Illustration by Beth A. Meinhard. From: Osburn, R. C. and J. T. Nichols. 1916. Shore fishes collected by the "Albatross" expedition in Lower California, with descriptions of new species. Bulletin of the American Museum of Natural History 35 (16): 139–181.

extending well beyond mouth and decorated with a fleshy appendage

Glenoglossa wassi McCosker 1982 in honor of fisheries officer Richard C. Wass (b. 1942), U.S. Fish and Wildlife Service, who collected holotype and many other fishes from American Samoa

Mixomyrophis

McCosker 1985

míxis (Gr. μίξις), a mixing; Myrophis, type genus of subfamily, referring to its combination of myrophine characters

Mixomyrophis longidorsalis Hibino, Kimura & Golani 2014 *longus* (L.), long; *dorsalis* (L.), of the back, referring to its longer dorsal-fin base compared with *M. pusillipinna*

Mixomyrophis pusillipinna McCosker 1985 *pusillus* (L.), puny or insignificant; *pinna* (L.), fin, referring to its minute pectoral fins

Muraenichthys Bleeker 1853

Muraena, moray eel, reflecting Bleeker's original placement of *M. gymnopterus* in that genus; *ichthýs* (Gr. ἰχθύς), fish

Muraenichthys gymnopterus (Bleeker 1852) gymnós (Gr. γυμνός), bare or naked; pterus, from pterón (Gr. πτερόν) or ptéryx (πτέρυξ), fin, referring to absence of pectoral fins

Muraenichthys hattae Jordan & Snyder 1901 in honor of zoologist Saburo Hatta (1865–1935), Imperial University, Tokyo, for his "excellent" paper on Japanese lampreys [although named after a man, "*ae*" is an acceptable way to form a genitive from a masculine noun that ends in "a"]

Muraenichthys hibinoi Mohapatra, Behera, Ray, Acharya, Mohanty & Mishra 2023 in honor of Yusuke Hibino, Kitakyushu Museum of Natural History and Human History (Japan), for his "distinguished" contribution to Anguilliformes taxonomy, particularly ophichthid eels

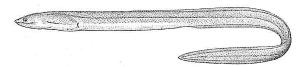
Muraenichthys longirostris Hibino, Ho & McCosker 2019 *longus* (L.), long; *rostris*, Neo-Latin scientific adjective of *rostrum* (L.), snout, referring to long and slender snout (18% of head length), unique in the genus

Muraenichthys philippinensis Schultz & Woods 1949 -*ensis*, Latin suffix denoting place: Badian Island, Philippines, type locality

Muraenichthys schultzei Bleeker 1857 in honor of Jan Francois Schultze (1817–1884), Assistant-Resident (i.e., governor) of Ambal, Java, who provided an important collection of fishes from the south coast of Java

Muraenichthys sibogae Weber & de Beaufort 1916 in honor of the ship *Siboga* and Indonesian expedition (1898–1899) of same name, during which holotype was collected

Muraenichthys thompsoni Jordan & Richardson 1908 in honor of



Muraenichthys thompsoni, holotype, 95.25 mm TL, From: Jordan, D. S. and R. E. Richardson. 1908. Fishes from islands of the Philippine Archipelago. Bulletin of the Bureau of Fisheries v. 27 (Doc. 640) (for 1907): 233–287. Joseph Cheesman Thompson (1874–1943), U.S. Navy medical officer (neurosurgeon), amateur zoologist-archaeologist, co-founder of the Zoological Society of San Diego, psychoanalyst, and Burmese cat breeder, who collected holotype [see essay on next page]

Muraenichthys velinasalis Hibino & Kimura 2015 *velum* (L.), veil; *nasalis* (L.), nasal, referring to posterior nostril concealed by a large flap

Myrophis Lütken 1852

myros, presumably a Latinization of múros (Gr. μῦρος)¹, with two definitions, a kind of eel and, specifically, a male moray, probably used here as a general word for eel; *óphis* (Gr. ὄφις), serpent, conventional termination for generic names of snake eels, referring to their snake-like shape

Myrophis anterodorsalis McCosker, Böhlke & Böhlke 1989 antero- (L.), anterior; dorsalis (L.), of the back, referring to anterior origin of dorsal fin



Myrophis anterodorsalis, holotype, 161 mm TL. Illustration by Mary H. Fuges. From: McCosker, J. E., E. Böhlke and J. E. Böhlke. 1989. Family Ophichthidae. *In*: Böhlke, E. B. (ed.). Fishes of the Western North Atlantic. Memoirs of the Sears Foundation for Marine Research No. 1 [pt. 9, vol. 1]: \rightarrow xvii. 1-655.

Myrophis lepturus Kotthaus 1968 thin-tailed, from *leptós* (Gr. λεπτός), fine or thin, and *urus*, from *ourá* (Gr. οὐρά), tail, referring to very low and thin tail compared with body

Myrophis microchir (Bleeker 1864) micro-, from mikrós (Gr. μικρός), small; chir, from cheír (Gr. χείρ), hand (homologous to the pectoral fin), referring to its small pectoral fins, about 4½ times within length of head

Myrophis platyrhynchus Breder 1927 flat- (or broad-) snouted, from *platýs* (Gr. πλατύς), broad and/or flat, and *rhýnchos* (Gr. ῥύγχος), snout, referring to its "peculiar broad flat snout"

Myrophis plumbeus (Cope 1871) Latin for "of lead," i.e., lead-colored, referring to ventral coloration of holotype

Myrophis punctatus Lütken 1852 Latin for spotted, referring to darkbrown spots on sides and back

Myrophis vafer Jordan & Gilbert 1883 Latin for sly or cunning, allusion not explained, possibly referring to its similarity to and previous misidentification as *M. punctatus*

Neenchelys Bamber 1915

néos (Gr. νέος), new; énchelys (Gr. ἔγχελυς), eel, literally a new family (Neenchelidae, now synonymized) and genus of eels

Neenchelys andamanensis Hibino, Satapoomin & Kimura 2015 -ensis, Latin suffix denoting place: Andaman Sea, eastern Indian Ocean, type locality

Neenchelys buitendijki Weber & de Beaufort 1916 in honor of Pieter Buitendijk (1870–1932), surgeon aboard the *Siboga* expedition, who collected holotype from the Java Sea

Neenchelys cheni (Chen & Weng 1967) in honor of Tung-Pai Chen, chief, Section of Fisheries, Joint Sino-American Commission on Rural Reconstruction (JCCR), for "financial support and kind encouragement"

Neenchelys daedalus McCosker 1982 named after Deadalus, the "Greek artisan who escaped from his Earth-bound prison and ascended into heaven," referring to its midwater habitat, the second ophichthid

 $^{^1}$ Múros, sometimes spelled smúros (Gr. σμῦρος), may be derived from the Indo-European smer(u) meaning fat (eels have a high fat content) or greasy (i.e., slippery). See: Frisk, H. 1970. Griechisches etymologisches wörterbuch. Vol. 2. Heidelberg: Carl Winter Universitatsverlag. 1154 pp.

In honor of "Snake" Thompson

People like Joseph Cheesman Thompson can make anyone feel like a boring underachiever.

Born in 1874, he graduated from Columbia Medical School and became a career medical officer in the United States Navy. In August 1900, Thompson distinguished

himself as part of a U.S. Marines mission to Peking (Beijing), China, providing medical care for foreigners and Chinese Christians who were under attack during the Boxer Rebellion. Upon his return to the states, Thompson served as a neurosurgeon at the Navy hospital in San Diego, California, where he attained the rank of com-



mander before his retirement in 1929.

That, in and of itself, is a life full of accomplishment. But Thompson didn't stop there. He was also an avid naturalist. In 1905, he collected fishes, apparently just for fun, from the Tortugas Archipelago of Florida, and coauthored a paper on his efforts with the dean of American ichthyology himself, David Starr Jordan. But his true passion was reptiles. His friends called him "Snake" Thompson, and he actually used his herpetological interests as cover for a spy mission during the Philippine-American War (1909–1911). Under the guise of studying coastal reptiles and amphibians throughout the Japanese Empire, Thompson was actually charting invasion routes for the U.S. military. It wasn't all covert work, however, for Thompson described a new genus of frog (*Babina*) from the Ryukyu Islands.

Back in San Diego, Thompson helped found the Zoological Society of San Diego—which became the world-famous San Diego Zoo—in 1916. He supervised the construction of a reptile house and planned much of the Zoo's education programs. When a Kodiak bear that served as a mascot on a Navy ship outgrew its quarters, Thompson placed the bear in the front seat of his car and drove it to the Zoo.

In 1923, Thompson crossed paths with a 12-year-old L. Ron Hubbard, the founder of Scientology. Hubbard said that Thompson sparked his interest in the human mind and ultimately served as one of his inspirations for Dianetics and Scientology. Hubbard said that Thompson told him, "If it's not true for you, it's not true."

The same year he met Hubbard, Thompson traveled to Guam and dabbled in archaeology. He is credited with obtaining new information about the Chamorros people at the time of Magellan's visit in 1521.

Thompson the neurosurgeon eventually became Thompson the psychoanalyst. He was fascinated by the ideas and techniques of Sigmund Freud, underwent psychotherapy himself, and formed his own psychoanalytic practice. He published papers with titles such as "Symbolism in the Chinese Written Language" and "Psychology in Primitive Buddhism." Sometimes he used the thinly disguised pseudonym "Joe Tom Sun." (Thompson was apparently fond of pseudonyms; the Japanese grass lizard *Takydromus kuehnei* and the forest skink *Spenomorphus kuehnei* were both named for Victor Kühne, an alias used by Thompson.)

And just because his life wasn't full enough, Thompson found time to pursue one other passion: Breeding Siamese and Burmese cats.

Two fishes are named in Thompson's honor. In 1904, David Starr Jordan named the goby *Gnatholepis thompsoni*, which Thompson collected in the Tortugas. In 1908, Jordan & Richardson named the worm eel *Muraenichthys thompsoni*, which Thompson collected in Manila Bay of the Philippines, presumably during his "spy" mission through the Japanese Empire. A third fish species would have been named for Thompson except that he asked it be named for someone else. In 1904, Thompson was courting a painter named Emilia Kalisher. Apparently, the gesture worked. Shortly after the labrid blenny *Labrisomus kalisherae* was described, Miss Kalisher became Mrs. Thompson.

Thompson died in San Francisco from a heart attack in 1943. He left \$10,000 to one of his cats.

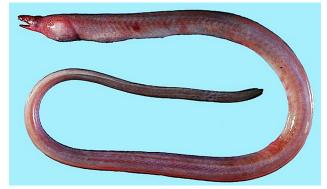
known to have left the substrate and live in midwater (the first being *Benthenchelys cartieri*)

Neenchelys diaphora Ho, McCosker & Smith 2015 *diáphoros* (Gr. διάφορος), different, initially recognized as being closely similar to *N. pelagica* but confirmed to be different with newly collected specimens [proposed in 2013 but not made available until 2015]

Neenchelys gracilis Ho & Loh 2015 Latin for slender or slim, referring to its very slim body

Neenchelys mccoskeri Hibino, Ho & Kimura 2013 in honor of American ichthyologist John E. McCosker (b. 1945), California Academy of Sciences, for his "great" contributions to eel systematics and for allowing the authors to describe this species, which he first recognized in 1999

Neenchelys microtretus Bamber 1915 micro-, from mikrós (Gr. μικρός), small; *trētós* (Gr. τρητός), perforated (i.e., with holes), probably referring to its small gill openings



Neenchelys mccoskeri, holotype, 512 mm TL From: Hibino, Y., H.-C. Ho and S. Kimura. 2012. A new worm eel Neenchelys mccoskeri (Anguilliformes: Ophichthidae) from Taiwan and Japan. Ichthyological Research 59 (4): 342–346.

Neenchelys nudiceps Tashiro, Hibino & Imamura 2015 *nudus* (L.), naked or bare; *-ceps* (Neo-Latin), headed, referring to the smooth (without papillae) upper and lateral surfaces of its snout

Neenchelys parvipectoralis Chu, Wu & Jin 1981 parvus (L.), little; pectoralis (L.), pectoral, referring to "smaller and weaker" pectoral fins compared with *N. buitendijki*

Neenchelys pelagica Ho, McCosker & Smith 2015 pelagic, from *pélagos* (Gr. πέλἄγος), sea, referring to its mesopelagic (vs. benthic) habitat [proposed in 2013 but not made available until 2015]

Neenchelys similis Ho, McCosker & Smith 2015 Latin for like or similar, referring to its similarity to *N. daedalus* [proposed in 2013 but not made available until 2015]

Pseudomyrophis

Wade 1946

pseudo-, from pseúdēs (Gr. ψεύδης), false, i.e., although this genus may superficially resemble Myrophis, such an appearance is false

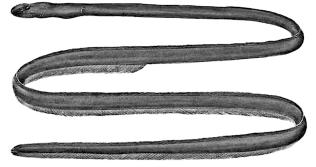
Pseudomyrophis atlanticus Blache 1975 -icus (L.), belonging to: referring to its distribution in the eastern tropical Atlantic

Pseudomyrophis frio (Jordan & Davis 1891) named for Cape Frio, near Rio de Janeiro, Brazil, type locality

Pseudomyrophis fugesae McCosker, Böhlke & Böhlke 1989 in honor of scientific illustrator Mary H. Fuges (1916–2010), for her "artistic ability ... meticulous attention to detail ... and her patience and encouragement throughout the preparation" of the eel volume of "Fishes of the Western North Atlantic" series

Pseudomyrophis micropinna Wade 1946 micro-, from mikrós (Gr. μικρός), small; pinna (L.), fin, referring to its minute pectoral fins

Pseudomyrophis nimius Böhlke 1960 Latin for excessive, probably referring to its "exceedingly elongate" body and/or greater length (up to 323 mm) compared with *P. micropinna* (up to 139 mm)



Pseudomyrophis nimius, paratype, 248 mm TL. Illustration by Steven P. Gigliotti. From: Böhlke, J. E. 1960. A new ophichthid eel of the genus *Pseudomyrophis* from the Gulf of Mexico. Notulae Naturae (Philadelphia) No. 329: 1–8.

Pylorobranchus McCosker & Chen 2013

pylōrós (Gr. πυλωρός), gatekeeper; branchus, from bránchia (Gr. βράγχια), gills, referring to the lappet-like structure located before its gill opening

Pylorobranchus hearstorum McCosker 2014 -*orum* (L.), commemorative suffix, plural: in honor of William (b. 1949) and Margaret (b. 1958) Hearst, friends and philanthropists, who sponsored expedition that collected holotype

Pylorobranchus hoi McCosker, Lo & Lin 2013 in honor of Taiwanese ichthyologist Hsuan-Ching Ho (b. 1978), friend and colleague, who has studied eels and many other fishes of Taiwan

Schismorhynchus McCosker 1970

schísma (Gr. σχίσμα), split or cleft; *rhýnchos* (Gr. ῥύγχος), snout, referring to the prominent toothed groove on the underside of its snout



Pylorobranchus hearstorum, holotype, female, 1218 mm TL. Photograph by David Catania. From: McCosker, J. E. 2014. A gigantic deepwater worm eel (Anguilliformes: Ophichthidae) from the Verde Island Passage, Philippine Archipelago. *In*: G. C. Williams and T. M. Gosliner (eds.). The Coral Triangle. The 2011 Hearst Philippine Biodiversity Expedition. California Academy of Sciences, San Francisco. 1–592.

Schismorhynchus labialis (Seale 1917) Latin for of the lips, presumably referring to its "abnormally large [nostrils] resembling two large curved fangs hanging down from the upper lips"

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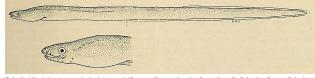
Possibly the first-published illustration (58 years after its description) of *Schismorhynchus labialis*. From: Randall, J. E. and J. E. McCosker. 1975. The eels of Easter Island with a description of a new moray. Contributions in Science (Los Angeles) No. 264: 1–32.

Schultzidia Gosline 1951

-*idia* (L. suffix), having the nature of: Leonard P. Schultz (1901–1986), Curator of Fishes, U.S. National Museum, who co-described the type species, *S. johnstonensis*

Schultzidia johnstonensis (Schultz & Woods 1949) -ensis, Latin suffix denoting place: Johnston Island, Central Pacific, type locality

Schultzidia retropinnis (Fowler 1934) *retro-* (L.), back; *pinnis*, Neo-Latin adjective of *pinna* (L.), fin, referring to the posterior "insertion" of its dorsal fin



Schultzidia johnstonensis, holotype, 145 mm. Illustration by Dorothea B. Schultz. From: Schultz, L. P. and L. P. Woods. 1949. Keys to the genera of echelid eels and the species of *Muraenichthys* of the Pacific, with two new species. Journal of the Washington Academy of Sciences 39 (5): 169–174.

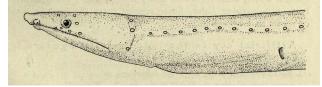
Scolecenchelys Ogilby 1897

skólēx (Gr. σκώληξ), worm, referring to worm-like shape of S. australis; énchelys (Gr. ἕγχελυς), eel

Scolecenchelys acutirostris (Weber & de Beaufort 1916) acutus (L.), sharp or pointed; rostris, Neo-Latin scientific adjective of rostrum (L.), snout, referring to its "very pointed and prominent snout"

Scolecenchelys aoki (Jordan & Snyder 1901) in honor of Kumakichi Aoki, fisherman and assistant to Kakichi Mitsukuri in the Marine Laboratory at Misaki, "one of the best [fish] collectors in Japan" [presumably a noun in apposition, without the patronymic "j"]

Scolecenchelys australis (Macleay 1881) Latin for southern, described from Australia, near Sydney



Scolecenchelys acutirostris, 92 mm TL. Illustration by Joan François Obbes. From: Weber, M. and L. F. de Beaufort. 1916. The fishes of the Indo-Australian Archipelago. III. Ostariophysi: II Cyprinoidea, Apodes, Synbranchi. E. J. Brill, Leiden. v. 3: i–xv + 1–455.

Scolecenchelys borealis (Machida & Shiogaki 1990) Latin for northern, referring to its northern distribution (Western North Pacific) compared with congeners

Scolecenchelys brevicaudata Hibino & Kimura 2015 *brevis* (L.), short; *caudata* (L.), tailed, referring to its relatively shorter tail compared with congeners

Scolecenchelys breviceps (Günther 1876) brevis (L.), short; -ceps (Neo-Latin), headed, referring to its shorter head compared with Muraenichthys (=Scolecenchelys) macropterus

Scolecenchelys castlei McCosker 2006 in honor of ichthyologist Peter H. J. Castle (1934–1999), Victoria University (Wellington, New Zealand), who recognized this eel as distinct but did not live to complete a description

Scolecenchelys chilensis (McCosker 1970) -ensis, suffix denoting place: Chile, indicating the offshore islands from which this species was taken, the first species of genus known from the New World

Scolecenchelys cookei (Fowler 1928) in honor of American conchologist Charles Montague Cooke, Jr. (1874–1948), for his "unselfish interest and influence in the many scientific projects which have their center in the Bishop Museum at Honolulu," for the inception of Fowler's monograph on Hawaiian fishes, and the "encouragement of his steadfast friendship," through whom Fowler was "enabled to study new and interesting fishes, many of them the most beautiful of their kind"

Scolecenchelys fuscapenis McCosker, Ide & Endo 2012 *fuscus* (L.), dusky, dark or swarthy; *penis* (L.), tail, referring to prominent black spot on posterior tail region

Scolecenchelys fuscogularis Hibino, Kai & Kimura 2013 *fuscus* (L.), dusky, dark or swarthy; *gularis* (L.), of the throat, referring to its dark branchial basket

Scolecenchelys godeffroyi (Regan 1909) in honor of the Museum Godeffroy (Hamburg, Germany), where holotype was housed, and/or the museum's founder, shipping magnate Johann Cesar VI. Godeffroy (1813–1885), who commissioned natural history collections in Australia and the South Seas

Scolecenchelys gymnota (Bleeker 1857) bare-backed, from gymnós (Gr. γυμνός), bare or naked, and nốtos (Gr. νῶτος), back, probably referring to its rudimentary dorsal fin, giving the appearance of a bare or naked dorsal surface

Scolecenchelys iredalei (Whitley 1927) in honor of British-born Australian ornithologist-malacologist Tom Iredale (1880–1972), Australian Museum, who accompanied Whitley on a collecting trip to Michaelmas Cay, Great Barrier Reef, type locality

Scolecenchelys laticaudata (Ogilby 1897) *latus* (L.), wide or broad; *caudata* (L.), tailed, referring to its anal and dorsal fins "expanded and fan-shaped" around the tip of the tail

Scolecenchelys macroptera (Bleeker 1857) long-finned, from makrós (Gr. μακρός), long or large, and *ptera*, from *pterón* (Gr. πτερόν) or *ptéryx* (πτέρυξ), fin, referring to its longer dorsal fin, which begins near the gill openings, compared with *Muraenichthys gymnotus* (=*Scolecenchelys gymnota*)

Scolecenchelys nicholsae (Waite 1904) in honor of Mary Nichols (1846– 1923), Lord Howe Island, wife of Thomas Nichols, a whaler captain who collected and/or provided many Australian fishes for Waite, and her daughters for the "many kindnesses" he received [preferably spelled nicholsarum since name honors more than one person, but ICZN 32.5.1 forbids such a correction]

Scolecenchelys profundorum (McCosker & Parin 1995) Latin for "out of the depths," referring to its deepwater (310 m) habitat

Scolecenchelys puhioilo (McCosker 1979) from the Hawaiian *puhi oilo*, "small eels about as large in diameter as a finger" (a delicacy among ancient Hawaiians), referring to its body width (7.5–15 mm)

Scolecenchelys robusta Hibino & Kimura 2015 Latin for fat or stout, referring to its robust body, i.e., body depth deeper than that of its congeners

Scolecenchelys vermiformis (Peters 1866) *vermis* (L.), worm; *formis*, Neo-Latin scientific adjective of *forma* (L.), shape or form, referring to its worm-like shape

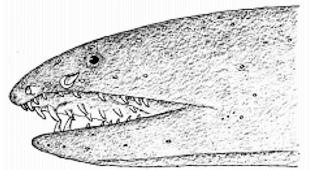
Scolecenchelys xorae (Smith 1958) of the Xora River (specifically, its mouth), Transkei, South Africa, type locality

Skythrenchelys Castle & McCosker 1999

skythrós (Gr. σκυθρός), angry or sullen, referring to the facial expressions of both species; énchelys (Gr. ἔγχελυς), eel

Skythrenchelys macrostomus (Bleeker 1864) large-mouthed, from *makrós* (Gr. μακρός), long or large, and *stóma* (Gr. στόμα), mouth, referring to wide cleft of mouth, reaching behind eye

Skythrenchelys zabra Castle & McCosker 1999 from zabrós (Gr. $\zeta \alpha \beta \rho \delta \varsigma$), gluttonous, referring to its ability to ingest very large prey

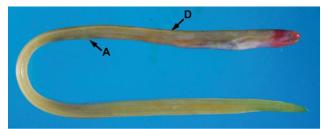


Skythrenchelys zabra, holotype, 239 mm TL. From: Castle, P. H. J. and J. E. McCosker. 1999. A new genus and two new species of Myrophine worm-eels, with comments on *Muraenichthys* and *Scolecenchelys* (Anguilliformes: Ophichthidae). Records of the Australian Museum 51 (2–3): 113–122.

Sympenchelys Hibino, Ho & Kimura 2015

sympiézein (Gr. συμπιέζειν), compress, referring to its compressed body and neural and haemal spines; énchelys (Gr. ἕγχελυς), eel

Sympenchelys taiwanensis Hibino, Ho & Kimura 2015 - ensis, Latin suffix denoting place: known from northeastern and southwestern Taiwan



Sympenchelys taiwanensis, holotype, 258.8 mm TL. A = position of anus. D = origin of dorsal fin. From: Hibino, Y., H.-C. Ho and S. Kimura. 2015, A new genus and species of worm eels, Sympenchelys taiwanensis (Anguilliformes: Ophichthidae: Myrophinae), from the northwestern Pacific Ocean. Zootaxa 4060 (1): 41–48.