A checklist of the moray eels of the world
(Teleostei: Anguilliformes: Muraenidae)

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Abstract

A checklist of the currently recognized species of moray eels (Muraenidae) is presented. One hundred ninety seven species are considered to be valid, in 15 genera, and two subfamilies. The account for each valid species contains bibliographic information for that species and all synonyms, including primary type specimens and type locality. Also given for each species is the number of vertebrae, the mean vertebral formula (MVF), the general geographic distribution, and any explanatory remarks that may be needed. A list of nominal genera and species is given, with the current status of each. Separate lists are provided for names that cannot be assigned to known species (incertae sedis) and those that are unavailable.

Introduction

The family Muraenidae, whose members are commonly known as moray eels, is one of the most abundant and diverse of the true eels, order Anguilliformes. Only the Ophichthidae may exceed it in number of species. Morays occur worldwide in tropical and subtropical seas. They range from the shoreline to the edge of the continental shelf. They form a large and ecologically important component of the coral-reef habitat, where they inhabit holes and crevices, coming out to feed on a wide variety of fishes and invertebrates. They exhibit a bewildering variety of color patterns, from uniform brown or green to complex patterns of spots, bars, reticulations, and rosettes, in colors ranging from red to yellow to green to brown to white.

Morays are specialized in many ways and are highly consistent in these specializations. All morays lack pectoral fins after metamorphosis; even in the larvae, the pectoral fins are greatly reduced. The gill opening is reduced to a small pore on the side of the head. The lateral line lacks pores on the body except for a few at the anteriormost end. Cephalic pores are reduced to a stereotyped pattern. In all except one genus, the supraorbital canal has only three pores, two at the anterior end of the snout and one on top of the snout near the anterior nostril. The genus Anarchias is exceptional in having a fourth pore adjacent to the posterior nostril. The infraorbital canal contains three or four pores (usually four) along the upper jaw. The preoperculumandibular canal usually has six pores along the lower jaw. There are no pores behind the eye or in the supratemporal commissure. Morays have well developed pharyngeal jaws, which play an important role in their feeding behavior. Like all true eels, morays
have a peculiar larval form called a leptocephalus. Few muraenid leptocephali have been identified to the species level so far, and their significance in assessing relationships has yet to be exploited.

Aside from the Anguillidae, morays are probably the eels most familiar to the general public. They have a somewhat exaggerated reputation for ferocity, but, like most animals, they tend to mind their own business if left alone.

Classification of moray eels is still very much a work in progress, and we are not yet close to a definitive phylogeny. The definition and boundaries of genera are still uncertain. This paper is by no means a final inventory of all the moray species in the world. The family is still imperfectly known, and new species are continually being discovered and described. Rather, it should be read as a status report, a snapshot in time as of the publication date.

Methods

The reference to the original description of each species contains, in order, the author(s) and date, page and figure number(s), the type locality in parentheses, and the type specimens. For locality data, the abbreviation “I.” refers to a single island, “Is.” refers to an island group. Localities are generally cited as they appeared in the original publication; alternative names or clarifications are given in square brackets. Compass directions are given as lower case letters (n, s, e, w). When a particular reference appeared as a separate in addition to the regular journal volume, the page and figure numbers in the separate are given in square brackets, when these differ from the journal pages. As the number of vertebrae constitutes an important distinguishing character for eel species, vertebral counts are given for each valid species, in the order predorsal, preanal, and total. These counts are taken from a variety of sources, both published literature and from unpublished records. The mean vertebral formula (MVF) is presented where available. For genera, the gender and the type designation are given. The geographical distribution of each species is given, usually in general terms. Additional information and discussion of nomenclatural issues is given under Remarks. Institutional abbreviations are as listed at http://www.asih.org/codons.pdf, with the following additions. AHF refers to the Alan Hancock Foundation, whose collection is now housed at the Los Angeles County Museum of Natural History. BSMP refers to the Philippine Bureau of Science museum, Manila, which was destroyed during World War II. SAIAB refers to the South African Institute of Aquatic Biodiversity, Grahamstown; this replaced RUSI, which is no longer used. The electronic edition of Eschmeyer’s Catalog of Fishes was consulted for bibliographic details (Eschmeyer, 2012). Provisions of the Fourth Edition of the International Code of Zoological Nomenclature are followed in all cases.

**Family Muraenidae Rafinesque 1810**

**morays**

**Subfamily Muraeninae**

Muraenidae Rafinesque 1810b: 44. *Muraena* Linnaeus 1758.

**Genus DIAPHENCHELYS McCosker & Randall 2007**


*Diaphenchelys pelonates* McCosker & Randall 2007

*Diaphenchelys pelonates* McCosker & Randall 2007: 471, figs. 1–7 (Flores, Indonesia). Holotype BPBM 32205.

**VERTEBRAE:** 6, 55–58, 153–155 (MVF 6, 56, 154).

**DISTRIBUTION:** Indonesia.
Genus ECHIDNA Forster 1788

Echidna Forster 1788: 181. Type species Muraena echidna Gmelin 1789, by tautonymy. Feminine.


Molarii Richardson 1848: 79. Type species Muraena ophis Rüppell 1830, by subsequent designation (Jordan & Evermann 1896: 402, spelled Molarius). Masculine. Perhaps not originally intended as a genus, but as a division in a key to species based on teeth.


Leihala Jordan 1925: 5. Type species Poecilophis tritor Vaillant & Sauvage 1875, by original designation. Feminine.

Echidna amblyodon (Bleeker 1856)
Muraena amblyodon Bleeker 1856c: 72 (Manado, Sulawesi [Celebes], Indonesia). Holotype (unique), BMNH 1867.11.28.318.
VERTEBRAE: 6–7, 45–46, 100–102 (MVF 6, 46, 101).
DISTRIBUTION: Western Pacific.

Echidna catenata (Bloch 1795)
Gymnothorax catenatus Bloch 1795: 84, ll. 415 (Suriname). Holotype (unique), ZMB 4012.
Muraenophis catenula Lacepède 1803: 628, 641 (Suriname). No types known.
Muraena sordida Cuvier 1816: 233 (No locality). No types known. Based on Muraena seu conger brasiliensis Seba 1738, a pre-Linnaean name.
Muraenophis zebra Lesueur 1825: 107, pl. 4 (fig. 2) (Barbados, West Indies). No types known.
Muraena alusis Bleeker 1856c: 67. No types known. A replacement name for Atlantic catenatus, thought to be Indo-Pacific.

Echidna fuscomaculata Poey 1867: 263 (Cuba). No types known.
Echidna flavofasciata Poey 1867: 264 (Cuba). Holotype, not found.
DISTRIBUTION: Western and central Atlantic.

Echidna delicatula (Kaup 1856)
Poecilophis delicatus Kaup 1856a: 67 (Molucca Is., Indonesia). Holotype (unique), RMNH 7212.
Echidna trossula Jordan & Starks in Jordan & Seale 1906: 203, fig. 8. (Apia, Upolu I., Western Samoa). Holotype, USNM 51714.
DISTRIBUTION: Western Pacific.

Echidna leucotaenia Schultz 1943
Echidna leucotaenia Schultz 1943: 22, pl. 3 (Reef of Enderbury I., Phoenix Is., 3°08′30″S, 171°05′34″W). Holotype, USNM 115949.
DISTRIBUTION: Indo-West Pacific.

Echidna nebulosa (Ahl 1789)
Muraena nebulosa Ahl 1789: 7, pl. 1 (right fig) (East Indies). No types known to exist, although Fricke (1999: 42) designated the illustrated specimen as the lectotype.
Muraena echidna Gmelin 1789: 1135 (Palmerston I., central Pacific). No types known.
Echidna forsteri Walbaum 1792: 695 A new name for Muraena echidna Gmelin.
Gymnothorax echidna Forster in Bloch & Schneider 1801: 526 (Huahina [Huahine] I., Society Is.). Holotype (unique), ZMB 4000.
Muraena ophis  Rüppell 1830: 116, pl. 29 (fig. 2) (Red Sea). Holotype (unique), SMF 19. Preoccupied by Muraena ophis  Linnaeus 1758. No types known.

Muraena variegata (ex Forster) Richardson, 1848: 94, pl. 47 (Figs. 1–5). Preoccupied by Muraena variegata Rafinesque 1810. No types known.

Muraena cerinonigra Richardson 1846: 314. No types; based on a drawing.


Muraena boschii  Bleeker 1853a: 52 (Siboga, w Sumatra, Indonesia). Holotype (unique), RMNH 7205.

Echidna cocosa Garman 1889; 313 (Cocos I., e Pacific). Holotype (unique), MCZ 28452.


DISTRIBUTION: Indo-West Pacific; Eastern Pacific; common and widely distributed.

REMARKS: Muraena variegata Richardson appeared in synonymy and was attributed to Forster. Forster’s name, however, was never published and is unavailable. The name is preoccupied by Muraena variegata Rafinesque 1810 and Muraena variegata Quoy and Gaimard 1824 and hence invalid.

Echidna nocturna  (Cope 1872)

Poecilophis nocturnus  Cope 1872: 474 (Río Grande at San Jose, Costa Rica). Holotype, ANSP 14926.


Echidna chionostigma  Fowler 1912: 28, fig. 7 (Probably from the Gulf of California, Mexico). Holotype, ANSP 14519.

Muraena acutis  Seale 1917: 89 (San Miguel, Pearl Is., Gulf of Panama, e Pacific). Holotype (unique), MCZ 3960.

Gymnothorax arae  Borodin 1928: 8 (Darwin Bay, Tower I. [Genovesa], Galápagos Is.). Holotype, AMNH 222126 [ex VMM 74].

Rabula rochii  Clark 1936: 384 (Tidepools, Black Beach Anchorage, Santa María I. [Charles I.], Galápagos Is.). Holotype (unique), CAS 4964.

VERTEBRAE: 6–8, 55–60, 118–124 (MVF 6, 58, 122).

DISTRIBUTION: Eastern Pacific.

REMARKS: The stated locality for the holotype is problematical. San Jose, Costa Rica is not near the coast, and the specimen could not have been taken there. The species inhabits the eastern tropical Pacific and may have come from elsewhere in Costa Rica.

Echidna peli  (Kaup 1856)

Poecilophis peli  Kaup 1856a: 67 (Ghana). Holotype, RMNH.PISC.3786. [Blache 1967a: 696, first reviser]

Poecilophis lecomtei  Kaup 1856a: 67 (Gabon). Syntypes, MNHN B-2364 (1), B-2502 (1), B-2503 (1).

VERTEBRAE: —, —, 118–123.

DISTRIBUTION: Eastern Atlantic.

REMARKS: Poecilophis peli and P. lecomtei were described on the same page in the same paper. Blache (1967a: 696) was the first reviser and chose peli as the valid name.

Echidna polyzona  (Richardson 1845)


Muraena dizona  Bleeker 1861: 260 (Kupang, Timor I., Indonesia). Holotype (unique), BMNH 1867.11.28.340.


Poecilophis pikei  Bliss (ex Steindachner) 1883: 61 (Mauritius). Syntypes, MCZ 6149 (1), MCZ 6150 (1); USNM 153564 [ex MCZ 6149] (1).

Echidna zonata  Fowler 1900: 495, pl. 18 (fig. 2) (Hawaiian Is., U.S.A). Holotype (unique), ANSP 16484.

Echidna leihala  Jenkins 1903: 428, fig. 9 (Reef in front of Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype, USNM 50844.

Echidna vincita  Jenkins 1903: 429, fig. 10 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype, USNM 50687.
Echidna obscura  Jenkins 1903: 430, fig. 11 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype, USNM 50686.
Echidna psalion  Jenkins 1903: 431, fig. 12 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50685.
Echidna sauvagei  Fowler 1912: 30, fig. 8 (No locality [probably Hawaiian Is., U.S.A.]). Holotype, ANSP 38161 (not 38164).
DISTRIBUTION: Indo-West Pacific.

Echidna rhodochilus  Bleeker 1863
Echidna rhodochilus  Bleeker 1863a: 247 (Rotti I., Indonesia). Holotype (unique), BMNH 1867.11.28.277.
DISTRIBUTION: Indonesia.

Echidna unicolor  Schultz 1953
DISTRIBUTION: Indo-West Pacific.

Echidna xanthospilos  (Bleeker 1859)
Poecilophis ornata  Kaup 1859: 28, pl. 5 (East Indies). Holotype (unique), ZMH 12469.
DISTRIBUTION: Indonesia and Papua New Guinea.

Genus Enchelycore  Kaup 1856

Enchelycore  Kaup 1856a: 60. Type species Muraena nigricans  Bonnaterre 1788, by subsequent designation (Kaup 1856b: 72). Feminine.

Eurymyctera  Kaup 1856a: 59. Type species Eurymyctera crudelis  Kaup 1856, by monotypy. Feminine.

Aemasia  Jordan & Snyder 1901: 883. Type species Aemasia lichenosa  Jordan & Snyder 1901, by original designation (also monotypic). Feminine.

Rhinechidna  Barbour 1908: 41. Type species Rhinamuraena eritima  Jordan & Seale 1906, by monotypy. Feminine.

Fimbrinares  Whitley 1948: 72. Type species Fimbrinares mosaica  Whitley 1948, by original designation (also monotypic). Feminine.

Enchelycore anatina  (Lowe 1838)
Muraena sanctaehelenae  Günther 1870: 115 (Saint Helena I., South Atlantic). Holotype (unique), BMNH 1868.3.11.3.
VERTEBRAE: 6–8, 52–59, 146–158.
DISTRIBUTION: Atlantic.
REMARKS: Most recent authors have considered Muraena sanctaehelenae a synonym of M. anatina. Ben-Tuvia and Golani (1984: 542) pointed out differences in proportions, body color, and vertebral counts and on this basis recognized it as distinct. Böhlke et al. (1989:137) considered those characters insufficiently diagnostic and returned it to synonymy. However, the vertebral count of the holotype and only known specimen (146) is well outside the range of other specimens (151–158), and the color pattern seems distinct (Böhlke et al. 1989: fig. 135). If
additional specimens confirm these distinctions, *Enchelycore sanctaehelenae* could be recognized as a valid species.

**Enchelycore bayeri** (Schultz 1953)
*Gymnothorax bayeri*  
VERTEBRAE: 8–11, 49–53, 146–153 (MVF 10, 51, 149).  
DISTRIBUTION: Indo-West Pacific.

**Enchelycore bikiniensis** (Schultz 1953)
*Gymnothorax bikiniensis*  
VERTEBRAE: 8–9, 58–61, 146–153 (MVF 8, 60, 150).  
DISTRIBUTION: Western Pacific.

**Enchelycore carychroa** Böhlke & Böhlke 1976
*Enchelycore carychroa*  
VERTEBRAE: 7–11, 45–51, 128–140 (MVF 9, 48, 135).  
DISTRIBUTION: Western and Central Atlantic (one questionable record from Fernando Po, w Africa).

**Enchelycore kamara** Böhlke & Böhlke 1980
*Enchelycore kamara*  
VERTEBRAE: 14–16, 60–64, 138–143 (MVF 15, 63, 140).  
DISTRIBUTION: Central Pacific.

**Enchelycore lichenosa** (Jordan & Snyder 1901)
*Aemasia lichenosa*  
Jordan & Snyder 1901: 883, fig. 20 (Wakanoura, Japan). Holotype, SU 6480.  
DISTRIBUTION: Western Pacific; Galápagos Islands.  
REMARKS: The holotype and paratype from Japan have 148–149 vertebrae (Böhlke 1982: 42); the specimens reported from the Galápagos by McCosker and Rosenblatt (1975: 422) have 136–142. This suggests that the two populations may not be conspecific.

**Enchelycore nigricans** (Bonnaterre 1788)
*Muraena nigricans*  
Bonnaterre 1788: 34 (South America). No types known.  
*Muraena anguina*  
Gronow in Gray 1854; 18 (Central America). No types known.  
*Enchelycore euryrhina*  
Kaup 1856a: 60 (Locality unknown). Holotype, MNHN B-2362.  
*Gymnothorax nigrocastaneus*  
Cope 1871: 483 (St. Martin I., West Indies). Holotype (unique), ANSP 16032.  
*Gymnothorax umbrosus*  
Poe 1875: 67, pl. 9 (figs. 1–2) (Cuba). Holotype, USNM 13062.  
*Gymnothorax brunneus*  
Nichols 1920: 59 (Castle Harbor, Bermuda). Holotype (unique), AMNH 7309.  
VERTEBRAE: 6–10, 58–63, 141–148 (MVF 8, 60, 144).  
DISTRIBUTION: Western, Central, and Eastern Atlantic.

**Enchelycore nycturanus** Smith 2002
*Enchelycore nycturanus*  
Smith 2002: 2, figs. 1–3 (Off Scottburgh, Hospital Reef, Aliwal Shoal, KwaZulu-Natal, South Africa). Holotype, SAIAB 46473.  
VERTEBRAE: 5–6, 53–56, 147–148 (MVF 5, 55, 147).  
DISTRIBUTION: Aliwal Shoal, South Africa.

**Enchelycore octaviana** (Myers & Wade 1941)
*Gymnothorax octavianus*  
Myers & Wade 1941: 89, pl. 16 (Octavia Bay, Colombia [Pacific]). Holotype, USNM 101801.  
VERTEBRAE: 9–10, 57–58, 142–145 (MVF 9, 58, 144).
Enchelycore pardalis  (Temminck & Schlegel 1846)

Muraena lampra  Jenkins 1903: 423, fig. 3 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50680.
Muraena kauila  Jenkins 1903: 424, fig. 4 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50684.

VERTEBRAE: 3–6, 44–51, 119–126 (MVF 4, 47, 123).

DISTRIBUTION: Indo-West Pacific.

Enchelycore ramosa  (Griffin 1926)

Gymnothorax ramosus  Griffin 1926: 539, pl. 94 (Whangaroa and Bay of Islands, North Auckland districts, New Zealand). Holotype, AIM.
Fimbrinares mosaica  Whitley 1948:72 (Point Banks, near Botany Bay, N. S. W., Australia, 5 ft). Holotype (unique), AMS IA.3926.


DISTRIBUTION: South Pacific, Australia to Easter Island.

Enchelycore schismatorhynchus  (Bleeker 1853)

Muraena schismatorhynchus  Bleeker 1853b: 301 (Benkulen [Bengkulu], Sumatra, Indonesia). Holotype (unique), BMNH 1867.11.28.248.
Muraena congeroides  Bleeker 1860: 87 (Benkulen, Sumatra, Indonesia). Holotype (unique), BMNH 1867.11.28.338.
Muraena hemprichii  Klunzinger 1871: 613 (Al-Quseir [Kosseir], Egypt, Red Sea). Holotype (unique), ZMB 4048.
Rhinomuraena eritima  Jordan & Seale 1906: 196, fig. 6 (Pago Pago, American Samoa). Holotype (unique), USNM 51717.

Rhinomuraena eritima  Jordan, 1927: 4. Unavailable, apparently a lapsus for Rhinomuraena eritima

VERTEBRAE: 4–6, 60–65, 137–142 (MVF 4, 62, 140).

DISTRIBUTION: Indo-West Pacific.

Genus Enchelynassa  Kaup 1855

Enchelynassa  Kaup 1855: 213. Type species Enchelynassa bleekeri  Kaup 1855, by monotypy. Feminine.

Enchelynassa canina  (Quoy & Gaimard 1824)

Muraena canina  Quoy & Gaimard 1824: 247 (Waigeo [Waigiou], Indonesia; Rawak I., Bismarck Archipelago). Syntypes, MNHN (not found).
Enchelynassa bleekeri  Kaup 1855: 214, pl. 10 (fig. 3) (Pacific Ocean). Holotype (unique), lost.

VERTEBRAE: 6–7, 62–64, 141–147 (MVF 6, 63, 142).

DISTRIBUTION: Indo-West Pacific.

REMARKS: The original description of Muraena canina  is very general and does not include any identifying characters for the species. Jordan and Seale (1906: 197) listed it as valid, with Enchelynassa bleekeri  and E. vinoletus as junior synonyms, but did not explain why they adopted the name for this very distinctive species. Weber and deBeaufort (1916: 391) accepted Jordan and Seale's conclusion "notwithstanding the description of
Quoy and Gaimard is insufficient.” Later authors have simply followed historical convention, and the name is well established in current usage.

**Genus Gymnomuraena Lacepède 1803**


*Gymnopis* Rafinesque 1815: 93. Type species *Gymnomuraena doliata* Lacepède 1803, by being a replacement name. Feminine.

*Arndha* Deraniyagala 1931: 132. Type species *Gymnothorax zebra* Shaw 1797, by original designation (also monotypic). Feminine.

**Gymnomuraena zebra (Shaw 1797)**

*Gymnothorax zebra* Shaw in Shaw & Nodder 1797: 4 unnum. pp., pl. 322 (Sumatra, Indonesia [erroneously given originally as American seas]). Holotype (unique), BMNH 1977.4.22.4.  

*Gymnomuraena doliata* Lacepède 1803: 648, 649, pl. 19 (fig. 4) (New Britain, Bismarck Archipelago). Holotype (unique), MNHN B-2376.  

*Muraena molendinaris* Bennett 1833: 32 (Mauritius). Holotype (unique), BMNH 1852.9.13.100.  


**Genus Gymnothorax Bloch 1795**

*Gymnothorax* Bloch 1795: 83. Type species *Gymnothorax reticularis* Bloch 1795, by ICZN by use of plenary powers (Opinion 93). Masculine.


*Siderea* Kaup 1856a: 58. Type species *Muraena siderea* Richardson 1848, by absolute tautonymy of an included synonym. Feminine.

*Thyroidea* Kaup 1856a: 60. Type species *Muraena thyroidea* Richardson 1844, by absolute tautonymy of an included synonym. Feminine.


*Neomuraena* Girard 1858: 171. Type species *Neomuraena nigromarginata* Girard 1858, by monotypy. Feminine.


*Rabula* Jordan & Davis 1891: 589, 590. Type species *Muraena aquaedulcis* Cope 1872, by original designation. Feminine.


*Ahynnodontophis* Fowler 1912: 25. Type species *Gymnothorax (Ahynnodontophis) stigmanotus* Fowler 1912, by original designation (also monotypic). Masculine.

**Notorabula** Whitley 1934: 154. Type species *Muraena callorrhyncha* Günther 1870, by original designation (also monotypic). Feminine.


**Serranguilla** Whitley & Phillipps 1939: 228. Type species *Gymnothorax prionodon* Ogilby 1895, by original designation (also monotypic). Feminine.

**Chasmenchelys** Fowler 1944: 270. Type species *Muraena panamensis* Steindachner 1876, by original designation (also monotypic). Feminine.

**REMARKS: Gymnothorax** as currently treated is almost certainly a polyphyletic assemblage of generalized moray eels that are left over after everything else has been separated out. Some of the synonyms have been recognized as genera from time to time, but until more thorough comparative studies have been made, such actions are premature.

**Gymnothorax afer** Bloch 1795

*Gymnothorax afer* Bloch 1795: 85, pl. 417 (Guinea). Syntypes, ZMB 3991 (1), 7784 (1, stuffed), 7785 (1, stuffed). *Muraena africana* Shaw 1803: 30 (Guinea). New name for *Gymnothorax afer*.


VERTEBRAE: —, —, 140–148.

DISTRIBUTION: Eastern Atlantic.

**Gymnothorax albimarginatus** (Temminck & Schlegel 1846)

*Muraena albimarginata* Temminck & Schlegel 1846: 267, pl. 118 (Japan). Holotype (unique), RMNH D2236 (stuffed).


DISTRIBUTION: Western and central Pacific.

**Gymnothorax angusticauda** (Weber & de Beaufort 1916)


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax angusticeps** (Hildebrand & Barton 1949)

*Priodonophis angusticeps* Hildebrand & Barton 1949: 5, fig. 2 (Talara, Peru). Holotype (unique), USNM 144254.

VERTEBRAE: 5–6, 73, 168–170 (MVF 6, 73, 169).

DISTRIBUTION: Eastern Pacific.

**Gymnothorax annasona** Whitley 1937


VERTEBRAE: 4–6, 56–59, 141–144 (MVF 5, 58, 142).

DISTRIBUTION: Southwestern Pacific.

**Gymnothorax annulatus** Smith & Böhlke 1997

*Gymnothorax annulatus* Smith & Böhlke 1997: 179, fig. 3 (Visayan Sea between n Negros and Masbate Is., sw Caduruan Point, 11°38'20"N, 123°58'38"E, Philippines, 0–80.5 m). Holotype, ANSP 141418.


DISTRIBUTION: Western Pacific.
**Gymnothorax atolli** (Pietschmann 1935)


DISTRIBUTION: Hawaiian Islands.

**Gymnothorax australicola** Lavenberg 1992

*Gymnothorax australicola* Lavenberg 1992: 59, figs. 1–2 (Anakena Cove, east side 100 m of sand beach, Easter I., 27°03.5'S, 109°19.5'W, 4.5 m). Holotype, LACM 6560-48.


DISTRIBUTION: Southern Pacific.

**Gymnothorax australinus** Böhlke & McCosker 2001

*Gymnothorax australinus* Böhlke & McCosker 2001: 85, figs. 4–5, pl. 1 (Half Moon Bay, Port Philip Bay, Victoria, Australia, 37°58’S, 145°01’E). Holotype (unique), NMV A.17858.

VERTEBRAE: 6, 68, 151.

DISTRIBUTION: Australia.

**Gymnothorax bacalladoi** Böhlke & Brito 1987


DISTRIBUTION: Eastern Atlantic.

**Gymnothorax baranesi** Smith, Brokovich & Einbinder 2008

*Gymnothorax baranesi* Smith, Brokovich & Einbinder 2008: 63, figs. 1–4 (Off Eilat, Israel). Holotype, HUJ 18976.


DISTRIBUTION: Red Sea.

**Gymnothorax bathyphilus** Randall & McCosker 1975

*Gymnothorax bathyphilus* Randall & McCosker 1975: 20, figs. 11–13 (Off Mt. Tere Vaka, w coast of Easter I., 250 m). Holotype (unique), BPBM 6801.


DISTRIBUTION: Easter Island, Juan Fernandez, and possibly other subtropical South Pacific islands.

**Gymnothorax berndti** Snyder 1904

*Gymnothorax berndti* Snyder 1904: 518, pl. 4 (fig. 8) (Honolulu market, Oahu I., Hawaiian Is., U.S.A). Holotype, USNM 50867.

VERTEBRAE: 4–6, 52–58, 136–139 (MVF 5, 54, 137).

DISTRIBUTION: Tropical and subtropical Indo-West Pacific.

**Gymnothorax bredeni** McCosker & Randall 1977


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax buroensis** (Bleeker 1857)


*Gymnothorax tahitensis* Seale 1906: 7, fig. 1 (Tahiti, Society Is). Holotype (unique), BPBM 1367.

*Gymnothorax marquesensis* Seale 1906: 10, fig. 1 (Nuku Hiva, Marquesas Is). Holotype, BPBM 2384.


DISTRIBUTION: Indo-Pacific, common and widely distributed.
**Gymnothorax castaneus** (Jordan & Gilbert 1883)

**Gymnothorax stigmanotus** Fowler 1912: 26, fig. 6 (Eastern Pacific [no specific locality]). Holotype (unique), ANSP 16705.


DISTRIBUTION: Eastern Pacific.

**Gymnothorax castlei** Böhlke & Randall 1999

VERTEBRAE: 3–6, 63–65, 118–124 (MVF 5, 64, 120).

DISTRIBUTION: Western Pacific.

**Gymnothorax cephalospilus** Böhlke & McCosker 2001
*Gymnothorax cephalospilus* Böhlke & McCosker 2001: 86, figs. 6–7, pl. 1 (Off Port Macquarie, N.S.W., Australia, 31°16'S, 153°10'E, 134 m). Holotype, AMS I.37982-001.

VERTEBRAE: 5–7, 63–65, 142–146 (MVF 6, 64, 145).

DISTRIBUTION: Australia.

**Gymnothorax chilospilus** Bleeker 1864


**Gymnothorax samalensis** Seale 1910: 492 (Samal I., Davao Gulf, Mindanao I., Philippines). Holotype (unique), BSMP 3781 (apparently lost).

**Lycodontis perustus** Smith 1962: 437, pl. 59 (fig. E) (Pinda I., Mozambique). Holotype (unique), SAIAB 114.

VERTEBRAE: 4–7, 47–52, 120–129 (MVF 5, 49, 125).

DISTRIBUTION: Indo-West Pacific.

REMARKS: *Gymnothorax detactus* is possibly a synonym, but the biserial vomerine teeth are not typical.

**Gymnothorax chlamydatum** Snyder 1908


DISTRIBUTION: Western Pacific.

**Gymnothorax conspersus** Poey 1867
*Gymnothorax conspersus* Poey 1867: 259 (Matanzas, Cuba). No types known.


DISTRIBUTION: Western Atlantic.

**Gymnothorax cribroris** Whitley 1932
*Gymnothorax cribroris* Whitley 1932b: 330, pl. 39 (fig. 2) (Northwest Islet, Capricorn Group, Queensland, Australia). Holotype, AMS IA.5012.


DISTRIBUTION: Australia.

**Gymnothorax davidsmithi** McCosker & Randall 2008

VERTEBRAE: 4, 64, 156.

DISTRIBUTION: Indonesia.
**Gymnothorax dorsalis** Seale 1917
*Gymnothorax dorsalis* Seale 1917: 92 (Hong Kong). Holotype, MCZ 31060.
VERTEBRAE: 8–9, 62–65, 154–163 (MVF 9, 63, 158).
DISTRIBUTION: Western Pacific.

**Gymnothorax dovii** (Günther 1870)
*Muraena dovii* Günther 1870: 103 (Panama [Pacific]). Holotype (unique), BMNH 1861.8.13.2.
VERTEBRAE: 5–8, 57–63, 140–148 (MVF 6, 59, 143).
DISTRIBUTION: Eastern Pacific.

**Gymnothorax elegans** Bliss 1883
*Gymnothorax elegans* Bliss 1883: 60 (Mauritius). Holotype (unique), MCZ 5954.
*Gymnothorax albomaculatus* Bliss 1883: 57 (Mauritius). Holotype (unique), MCZ 5946.
*Gymnothorax elegans* Seale 1917: 91 (Mauritius). Holotype (unique), MCZ 5954.
DISTRIBUTION: Indo-West Pacific.
REMARKS: Seale (1917) was unaware of Bliss’s (1883) paper and redescribed some of the same species, including *Gymnothorax elegans*.

**Gymnothorax emmae** Prokofiev, 2010
VERTEBRAE: 2–3, 46–49, 121–129 (MVF 2, 47, 125).
DISTRIBUTION: Vietnam.

**Gymnothorax enigmaticus** McCosker & Randall 1982
DISTRIBUTION: Indo-West Pacific.

**Gymnothorax equatorialis** (Hildebrand 1946)
*Priodonophis equatorialis* Hildebrand 1946: 134, fig. 31 (Gulf of Guayaquil, off Mt. Organos, near Cabo Blanco, Peru, 4°13’S, 80°13’W, 12 fm). Holotype, USNM 127842.
VERTEBRAE: MVF 7, 53, 146).
DISTRIBUTION: Eastern Pacific.

**Gymnothorax eustostus** (Abbott 1860)
*Lycodontis parvibranchialis* Fowler 1900: 494, pl. 18 (fig. 1) (Hawaiian Is., U.S.A). Holotype (unique), ANSP 16483.
*Gymnothorax erodes* Jenkins 1903: 428, fig. 8 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50843.
*Gymnothorax chalazius* Waite 1904: 145, pl. 17 (fig. 2) (Lord Howe I). Syntypes, AMS I.5479 (1), I.6271 (1).
*Gymnothorax gilberti* Tanaka 1908: 25, pl. 1 (fig. 1) (Bonin [Ogasawara] Is., Japan). Holotype (unique), SMF 21030.
*Gymnothorax wakanourae* Tanaka 1908: 24, pl. 2 (fig. 4) (Wakanoura, Wakayama Pref., Japan). Holotype (unique), ZUMT 956 (lost).
Gymnothorax dentex de Buen 1961: 12, fig. 4 (Easter I., se Pacific). Holotype, EBMC 97.
DISTRIBUTION: Indio-West Pacific, antitropical.
REMARKS: There may be more than one species currently passing under the name Gymnothorax eurostus. Further studies are needed.

Gymnothorax eurygnathos Böhlke 2001
Gymnothorax eurygnathos Böhlke 2001: 2, figs. 1–2 (Gulf of California, 26°11.4–15.5'N, 109°50.7–39.5'W, 406–396 m). Holotype (unique), SIO 72-199.
VERTEBRAE: 10, 66, 134.
DISTRIBUTION: Eastern Pacific.

Gymnothorax favagineus Bloch & Schneider 1801
Gymnothorax favagineus Bloch & Schneider 1801: 525, pl. 105 (Tranquebar, India). Holotype (unique), ZMB 7782 (stuffed).

Thaerodontis reticulata McClelland 1844: 188, 203, 216, pl. 7 (fig. 1) (Malay Coast). Holotype (unique), SMF (lost).
Murana tessellata Richardson 1845b: 109, pl. 55 (figs. 5–8) (Southern seas?). Holotype (unique), BMNH (apparently lost).
Murana python Kaup 1856b: 68, pl. 10 (fig. 52) (Africa). Holotype (unique), BMNH 2008.4.21.5.
VERTEBRAE: 4–6, 58–61, 138–144 (MVF 5, 60, 141).
DISTRIBUTION: Indo-West Pacific.

Gymnothorax fimbriatus (Bennett 1832)
Murana fimbriata Bennett 1832: 168 (Mauritius). Holotype (unique), BMNH 1856.2.15.16.
Murana bullata Richardson 1848: 86 (Borneo). Holotype (unique), BMNH 2008.4.9.4.
Enchelycore tamarae Prokoviev 2005: 702, figs. 1, 2 (India). Holotype ZIN 53422.
DISTRIBUTION: Indio-West Pacific.
REMARKS: Enchelycore tamarae appears to be a specimen of G. fimbriatus, judging from color pattern and dentition. The arched jaws are not definitive for the genus Enchelycore (see Smith et al. 2008).

Gymnothorax flavimarginatus (Rüppell 1830)
Murana flavimarginata Rüppell 1830: 119, pl. 30 (fig. 3) (Red Sea). Holotype (unique), SMF 765.
Murana batuensis Bleeker 1856d: 241 (Batu Is., Indonesia). Holotype (unique), BMNH 1867.11.28.253.
Gymnothorax viridipinnis Bliss 1883: 58 (Mauritius). Holotype (unique), MCZ 6146.
Murana viridipimna Seale 1917: 88 (Mauritius). Holotype (unique), MCZ 6146.
DISTRIBUTION: Indo-Pacific.

Gymnothorax flavoculus (Böhlke & Randall 1996)
Siderea flavocula Böhlke & Randall 1996: 95, figs. 1–5 (e side of Masirah I., Oman, Arabian Sea, 6 m). Holotype, BPBM 36155.
DISTRIBUTION: Western Indian Ocean.
**Gymnothorax formosus** Bleeker 1864

*Gymnothorax formosus* Bleeker 1864a: 51 (Wahai, Ceram, Indonesia). Holotype (unique), BMNH 1867.11.28.241. [Günther 1870: 111, first reviser]

*Gymnothorax rhodocephalus* Bleeker 1864a: 50 (Ambon I., Molucca Is., Indonesia). Holotype (unique), BMNH 1867.11.28.309.

**VERTEBRAE:** 3–5, 56–57, 131–136 (MVF 4, 56, 133).

**DISTRIBUTION:** Western and central Pacific.

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**Gymnothorax funebris** Ranzani 1839

*Gymnothorax funebris* Ranzani 1839: 77 [13], pl. 11[5] (figs. 2a–b) (Brazil).

*Muraena lineopinnis* Richardson 1848: 89 (Puerto Caballo, South America). Holotype (unique), BMNH 1847.5.14.43.

**VERTEBRAE:** 4–7, 57–61, 112–122 (MVF 37, 48, 117).

**DISTRIBUTION:** Western Atlantic.

**REMARKS:** Although the journal containing Ranzani’s description of *Gymnothorax funebris* was published in 1840, a separate appeared in 1839. The description appeared there on p. 13, pl. 5.

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**Gymnothorax fuscomaculatus** (Schultz 1953)


**VERTEBRAE:** 33–45, 45–51, 112–122 (MVF 37, 48, 117).

**DISTRIBUTION:** Indo-West Pacific.

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**Gymnothorax gracilicauda** Jenkins 1903

*Gymnothorax gracilicauda* Jenkins 1903: 426, fig. 6 (Reef in front of Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50679.

**VERTEBRAE:** 4–6, 47–52, 127–135 (MVF 4, 51, 134).

**DISTRIBUTION:** Western and central Pacific.

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**Gymnothorax griseus** (Lacepède 1803)

*Muraenophis grisea* Lacepède (ex Commerson) 1803: 629, 642, pl. 19 (fig. 3) (Madagascar; New Caledonia). No types known.

*Muraena geometrica* Rüppell 1830: 118, pl. 30 (fig. 1) (Massawa, Eritrea, Red Sea). Holotype (unique), SMF 130.


**VERTEBRAE:** 3–5, 49–53, 128–138 (MVF 4, 51, 134).

**DISTRIBUTION:** Western Indian Ocean.

**REMARKS:** In his description of *Siderea schonlandi*, Smith stated that the species was common at three locations in Mozambique and attained over 30 inches in size, clearly indicating that he had seen more than one individual. Only a single specimen from this time period and location can be found at the SAIAB museum, however, and it is possible that Smith only kept that one.

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**Gymnothorax hansi** Heemstra 2004

*Gymnothorax hansi* Heemstra 2004: 2, figs. 1–3 (Comoro Is). Holotype, SAIAB 38673.

**VERTEBRAE:** —, 82–84, 183–185.

**DISTRIBUTION:** Comoro Is., western Indian Ocean.

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**Gymnothorax hepaticus** (Rüppell 1830)

Muraena cinerascens  Rüppell 1830: 120 (Mohila, Red Sea). Holotype (unique), SMF 3486.
DISTRIBUTION: Apparently restricted to western Indian Ocean; records from Pacific probably refer to Gymnothorax monochrous.
REMARKS: Muraena hepatica and Muraena cinerascens were described in the same paper on the same page. Although hepatica has been widely used, cinerascens has seldom if ever been cited since as a valid species. Randall and Golani (1995) were apparently the first to list both names and choose one of them (hepaticus), hence becoming the first revisers.

Gymnothorax herrei  Beebe & Tee-Van 1933
Gymnothorax herrei  Beebe & Tee-Van 1933: 138 (Analao, Batangas, Philippines, 13°45'N, 120°55'E, 0–3 m). Neotype, ANSP 164931, designated by Böhlke 2000: 404.
DISTRIBUTION: Indo-West Pacific.

Gymnothorax hubbsi  Böhlke & Böhlke 1977
Gymnothorax hubbsi  Böhlke & Böhlke 1977: 238, figs. 1–3 (Off Cape Canaveral, Florida, U.S.A., 28°33'N, 80°03'W, 38 fm). Holotype, USNM 214833 [ex ANSP 115230].
VERTEBRAE: 6–8, 56–60, 133–137 (MVF 7, 58, 135).
DISTRIBUTION: Western Atlantic.

Gymnothorax intesi  (Fourmanoir & Rivaton 1979)
VERTEBRAE: 4–6, 64–71, 149–163 (MVF 6, 68, 155).
DISTRIBUTION: Western Pacific.

Gymnothorax isingteena  (Richardson 1845)
Muraena isingteena  Richardson 1845b: 108, pl. 48 (fig. 1) (China seas; Canton, China). Holotype, BMNH 2008.4.9.3 (lectotype designation by Böhlke & Smith 2002 invalid).
Muraena melanospilos  Bleeker 1855a: 279 (Sibogha, w Sumatra, Indonesia). Holotype (unique), BMNH 1867.11.28.239.
Gymnothorax pescadoris  Jordan & Evermann 1902: 326, fig. 8 (Kotosho, Hokoto or Pescadores Is., Taiwan). Holotype (unique), SU 12686 [ex SU 7131].
VERTEBRAE: 4–6, 61–62, 137–147 (MVF 5, 61, 144).
DISTRIBUTION: Western North Pacific.
REMARKS: Hatooka (2002: 1453) claimed that Muraena melanospilos is a synonym of Gymnothorax javanicus, though without giving any explanation. Böhlke and Smith (2002:126) described the holotype and placed the species in the synonymy of isingteena. The illustration of melanospilos given in Bleeker’s Atlas (1864, pl. 186, fig. 3) looks much more like isingteena than javanicus, and I follow Böhlke and Smith here in treating it as a synonym of the former. See further comments under Gymnothorax javanicus.

Gymnothorax javanicus  (Bleeker 1859)
Gymnothorax mindanaensis  Borodin 1930: 43, pl. 1 (fig. 1) (Mindanao I., Philippines). Holotype (unique), VMM 655 [not 665] (now AMNH 222125).
VERTEBRAE: 5–7, 57–61, 137–143 (MVF 6, 60, 141).
DISTRIBUTION: Indo-West Pacific.
REMARKS: As pointed out above, Hatooka (2002:1453) treated Muraena melanospilos Bleeker 1855 as the senior synonym of javanicus. It has already been explained why the former is considered a synonym of Gymnothorax
isingteena and not of javanicus. Even if Hatooka were correct, however, Article 23.9.1 of the ICZN could be invoked to suppress such a synonymy. The name melanospilos may have appeared in print occasionally over the years, but never as a synonym of Gymnothorax javanicus. The name Gymnothorax javanicus has been used universally since its description for the well known giant moray of the Indo-Pacific, easily fulfilling the requirements of Article 23.9.1.2 (“used...in at least 25 works, published by at least 10 authors in the immediately preceding 50 years and encompassing a span of not less than 10 years.”). The same reasoning applies to Muraena pratbernon Richardson 1848. Although the description sounds very much like G. javanicus, the name has not been used since 1899 (and earlier) and must be treated as a nomen oblitum.

Gymnothorax johnsoni  (Smith 1962)
VERTEBRAE: 4–6, 53–57, 139–142 (MVF 5, 55, 139).
DISTRIBUTION: Western Indian Ocean.

Gymnothorax kidako  (Temminck & Schlegel 1846)
Muraena kidako Temminck & Schlegel 1846: 266, pl. 117 (Nagasaki, Japan). Lectotype, RMNH 3957 designated by Boeseman 1947, 190.

Muraena similis Richardson 1848: 83 (Polynesia; Red Sea; Japan). Syntypes, BMNH 1846.2.16.100 (1, stuffed) Japan [the described syntype]; other syntypes not extant.

Gymnothorax mucifer Snyder 1904: 519, pl. 5 (fig. 9) (Honolulu market, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50868.
VERTEBRAE: 4–7, 52–58, 136–149 (MVF 5, 55, 141).
DISTRIBUTION: Western and central Pacific.

REMARKS: Richardson (1848) described Muraena similis from a single specimen from Japan, which Böhlke & Randall (2000) and Böhlke & Smith (2002) treated as the holotype. However, he noted the distribution as including Polynesia and the Red Sea, based on specimens described by Forster (Tahiti) and Rüppell (Red Sea, as Muraena ophis), thus implying the existence of syntypes. Forster’s specimen may well be kidako, as that species has been recorded from the Society Islands by Böhlke & Randall (2000: 242). The Forster specimen (which apparently no longer exists) might thus be considered a syntype of similis. Rüppell’s Muraena ophis, however, is a synonym of Echidna nebulosa, a fact that was recognized by Richardson (1848: 83) when he said that “the shortness of the gape distinguishes ophis from the present species.” Thus, he seemed to be excluding M. ophis Rüppell from his species similis, hence Rüppell’s specimen cannot be a syntype of similis.

Gymnothorax kolpos  Böhlke & Böhlke 1980
DISTRIBUTION: Western Atlantic.

Gymnothorax kontodontos  Böhlke 2000
VERTEBRAE: 7–9, 40–43, 126–135 (MVF 8, 42, 131).
DISTRIBUTION: Western Pacific.

Gymnothorax longinquus  (Whitley 1948)
Lycephodontis longinquus Whitley 1948: 73 (North of Mackay, Queensland, Australia). Holotype (unique), AMS IA.6953.
DISTRIBUTION: Southwestern Pacific.

Gymnothorax maderensis  (Johnson 1862)
Ahynnodontophis rosaliae  Howell Rivero 1932: 19 (Deep water off Cojimar, near Havana, Cuba). Holotype (unique), MCZ 32785.
DISTRIBUTION: Eastern and Western Atlantic.

Gymnothorax mareei Poll 1953
Gymnothorax mareei Poll 1953: 118, fig. 46 (Atlantic, 8 mi. w of Rio Cuanza, Angola, 9°20’S, 13°04’E). Holotype, IRSNB 169.
DISTRIBUTION: Eastern Atlantic.

Gymnothorax margaritophorus Bleeker 1864
Gymnothorax margaritophorus Bleeker 1864a: 53 (Ambon I., Molucca Is., Indonesia). Holotype (unique), BMNH 1867.11.28.268.
Gymnothorax talofa Jordan & Starks in Jordan & Seale 1906: 201, fig. 7 (Apia, Upolu I., Western Samoa). Holotype, USNM 51713.
VERTEBRAE: 5–6, 48–52, 123–133 MVF 6, 50, 129.
DISTRIBUTION: Indo-West Pacific.

Gymnothorax marshallensis (Schultz 1953)
DISTRIBUTION: Western Indian Ocean.

Gymnothorax mecoskeri Smith & Böhlke 1997
Gymnothorax mecoskeri Smith & Böhlke 1997: 181, fig. 5 (nw of Roebuck Bay, Western Australia, 17°47’S, 121°46’E, 52–56 m). Holotype, CSIRO CA1489.
DISTRIBUTION: Australia.

Gymnothorax megalaspilus Böhlke & Randall 1995
DISTRIBUTION: Western Indian Ocean.

Gymnothorax melanosomatus Loh, Shao & Chen 2011
Gymnothorax melanosomatus Loh, Shao & Chen 2011: 44, figs. 1, 2 (Off Changbin, Taitung, Taiwan, 50–100 m). Holotype TOU-AE 1991.
DISTRIBUTION: Taiwan.

Gymnothorax melatremus Schultz 1953
DISTRIBUTION: Indo-West Pacific.

Gymnothorax meleagris (Shaw 1795)
Thysroidea chlorostigma Kaup 1856a: 63 (Seychelles). Holotype (unique), MNHN 0000-4427.

DISTRIBUTION: Indo-West Pacific.

REMARKS: Hatooka (2002: 1453) claimed that the holotype of Muraena meleagris actually belongs to the species currently recognized as Gymnothorax eurostus; the species currently treated as Gymnothorax meleagris would then take the next available name, Gymnothorax chlorostigma. His analysis was based on the slightly curved jaws and the mouth cavity of the same color as the body (jaws straight and mouth white in the currently recognized meleagris). I have examined the holotype of meleagris and find the situation ambiguous. The specimen is partially faded, with broad patches retaining the original pattern of small pale spots on a brown background, and a somewhat greater area without any pattern. The jaws are slightly arched, and the interior of the mouth is brownish, although the teeth are also dark; these are characters of “eurostus.” On the other hand, the overlying dark spots on the body characteristic of “eurostus” are not visible, and the pale spots seem to be ocellated (surrounded by dark margins) as in “meleagris” rather than plain as in “eurostus.” The specimen has a regenerated tail, so the vertebral count is not available. Tissue samples were taken in an attempt to test genetically, but they have not yielded usable DNA. Considering the ambiguous nature of the case, I hesitate to make such a confusing change in the application of two widely used names. For the time being, I am retaining current usage.

Gymnothorax microstictus Böhlke 2000
DISTRIBUTION: Papua New Guinea.

Gymnothorax miliaris (Kaup 1856)
Thyrsoidea irregularis Kaup 1856a: 65 (Bahia, Brazil). Holotype, MNHN B-3120 [not B-2758].
Thyrsoidea flavopicta Kaup 1856a: 64 (Brazil). Holotype (unique), MNHN (not found).
Muraena multiocellata Poey 1860: 324 (Cuba). Holotype, unknown; apparently not USNM 24961.
Muraena elaborata Poey 1860: 323 (Cuba). Holotype, probably not USNM 24961.
Gymnothorax scriptus Poey 1867: 261 (Cuba). Holotype, whereabouts unknown.
Leptocephalus fuliginosus Strömman 1896: 34, pl. 3 (figs. 6–7) (Central Atlantic, 24°N, 68°W). Holotype (unique), ZMUU.
Muraena grandimaculis Regan 1903: 418, pl. 14 (fig. 3) (Bahia, Rio de Janeiro, Brazil). Holotype (unique), MHNG 665.39.
Muraena myrialeucostictus Fowler 1912: 18, fig. 4 (St. Martin I., West Indies). Holotype (unique), ANSP 16031.
Muraena aurea Mowbray 1931; unnumb. p. 2 (s shore of Bermuda). Holotype (unique), whereabouts unknown.
DISTRIBUTION: Western Atlantic and islands of central and eastern Atlantic.
REMARKS: Böhlke (1982: 40) treated USNM 24961 as the holotype of Muraena elaborata. Smith (1994: 32) explained in detail why this specimen is probably not a type of either elaborata or multiocellata. Kaup (1856a) described three species that are now considered synonyms: Thyrsoidea miliaris, T. irregularis, and T. flavopicta. The name miliaris has been widely used since, but Böhlke et al. (1989: 155) were apparently the first to list all three names and choose miliaris as the valid one.

Gymnothorax minor (Temminck & Schlegel 1846)
Muraena minor Temminck & Schlegel 1846: 269, pl. 115 (fig. 2) (Japan). Lectotype, RMNH 3771a, designated by Boeseman 1947: 191.
VERTEBRAE: 5–8, 51–57, 129–143 (MVF 6, 55, 139).
DISTRIBUTION: Northwestern and Southwestern Pacific.
REMARKS: This species has an antitropical distribution in the western Pacific. The northern and southern forms differ in their vertebral count, 135–143 and 129–135 respectively (Smith and Böhlke 1997: 183). If the southern form were recognized as a species, no name would be available for it.

**Gymnothorax moluccensis** (Bleeker 1864)

*Priendonophis moluccensis* Bleeker 1864a: 48 (Ambon I., Molucca Is., Indonesia). Holotype (unique), BMNH 1867.11.28.227.


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax monochrous** (Bleeker 1856)

*Muraena monochrous* Bleeker 1856a: 38 (Ternate, Molucca Is., Indonesia). Holotype (unique), BMNH 1867.11.28.244.

VERTEBRAE: 4–6, 56–61, 136–143 (MVF 4, 58, 139).

DISTRIBUTION: Indo-West Pacific.

**Gymnothorax monostigma** (Regan 1909)


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax mordax** (Ayres 1859)

*Muraena mordax* Ayres 1859: 30 (Cedros I., Baja California, Mexico). No types.

**Rabula davisi** Fowler 1912: 21, footnote (San Diego, California, U.S.A. [perhaps from farther south]). Holotype (unique), USNM 6673.


DISTRIBUTION: Eastern Pacific from s California to Baja California and Galápagos Islands.

**Gymnothorax moringa** (Cuvier 1829)

*Muraena moringa* Cuvier 1829: 352 (Antilles). No types known.

**Gymnothorax rostratus** Agassiz in Spix & Agassiz 1831: 91, pl. 50a (Major river mouths of Brazil). No types known.


**Murenophis curvilineata** Castelnau 1855: 81, pl. 42 (fig. 2) (Bahia, Brazil). Holotype, MNHN B-2436.

**Murenophis caramurra** Castelnau 1855: 82, pl. 43 (fig. 1) (Bahia, Brazil). Syntypes, MNHN B-2437 (1), B–3168 (2).

**Thysioidea concolor** Abbott 1860: 479 (Veracruz, Mexico). Holotype (unique), ANSP 970.

**Gymnothorax flavoscriptus** Poey 1876: 200 [158], pl. 9 [6] (fig. 2) (Cuba). No types known.

**Gymnothorax picturatus** Poey 1880: 257, pl. 10 (figs. 1–3) (Cuba). No types known.

**Lycodontis albimentis** Evermann & Marsh 1900: 78, fig. 9 (Off Culebra I., Puerto Rico, Fish Hawk sta. 6093, 15 fm). Holotype (unique), USNM 49527.

**Leptocephalus strummani** Eigenmann & Kennedy 1902: 89, figs. 8, 8a–b (20 mi. se of Cape Hatteras, North Carolina, U.S.A., 35°08′30″N, 75°10′00″W, Albatross sta. 2596, 0–49 fm). Holotype (unique), USNM 49762.


DISTRIBUTION: Western Atlantic.

**Gymnothorax nasuta de Buen 1961**

*Gymnothorax nasuta* de Buen 1961: 10, fig. 3 (Easter I., se Pacific). Holotype, EBMC 118.


DISTRIBUTION: Easter Island and Chile.

**Gymnothorax neglectus** Tanaka 1911

*Gymnothorax neglectus* Tanaka 1911: 28, pl. 7 (fig. 24) (Keelung, Taihoku, Taiwan). Holotype (unique), ZUMT 2165.

VERTEBRAE: 6, 58, 141 (holotype).
DISTRIBUTION: Western North Pacific.

**Gymnothorax nigromarginatus** (Girard 1858)

VERTEBRAE: 5–8, 45–52, 137–147 (MVF 6, 49, 142).

DISTRIBUTION: Western Atlantic.

**Gymnothorax niphostigmus** Chen, Shao & Chen 1996
*Gymnothorax niphostigmus* Chen, Shao & Chen 1996: 20, figs. 1–3 (Pepingto fish market, 25°11'N, 121°51'E, Keelung, Taiwan, 100–150 m). Holotype, ASIZP 056940.


DISTRIBUTION: Western North Pacific.

REMARKS: Böhlke and Smith (2002: 131) considered this species a possible synonym of *Gymnothorax kidako* Temminck & Schlegel 1846. I tentatively recognize it here on the basis of the color pattern (distinctly pale spots on a dark brown background, and spots on the tail fewer and farther apart). The various pale-spotted *Gymnothorax* species are confusing, and further study is needed to confirm their identities.

**Gymnothorax nubilus** (Richardson 1848)

*Muraena euptera* Günther 1870: 122 (Raoul I., Kermadec Is, sw Pacific). Holotype (unique), BMNH 1855.8.16.50.


DISTRIBUTION: Southwestern Pacific.

**Gymnothorax nudivomer** (Günther 1867)
*Muraena nudivomer* Günther in Playfair & Günther 1867: 127, pl. 18 (Zanzibar). Lectotype, BMNH 1867.3.9.48, designated by Günther 1870: 104.

**Gymnothorax xanthostomus** Snyder 1904: 519, pl. 5 (fig. 10) (Honolulu market, Oahu I., Hawaiian Is., U.S.A.). Holotype, USNM 50869.

**Gymnothorax insignis** Seale 1917: 93 (Mauritius). Holotype (unique), MCZ 5912.


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax nuttingi** Snyder 1904
*Gymnothorax nuttingi* Snyder 1904: 518, pl. 4 (fig. 7) (Honolulu market, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50866.


DISTRIBUTION: Hawaiian Islands.

**Gymnothorax obesus** (Whitley 1932)
*Uropterygius obesus* Whitley 1932b: 329, pl. 39 (fig. 1) (Montague I., N. S. W., Australia, ca 70 fm). Holotype, AMS IA.3888.

*Muraena tuhua* Griffin 1933: 171, pl. 24 (bottom); fig. (15 mi. se of Mayor I. [Tuhua], New Zealand, 80 fm). Holotype (unique), AIM (lost).

VERTEBRAE: 9–10, 68–72, 166–172 (MVF 10, 70, 169).

DISTRIBUTION: Southwestern Pacific.

**Gymnothorax ocellatus** Agassiz 1831
*Gymnothorax ocellatus* Agassiz in Spix & Agassiz 1831: 91, pl. 50b. (Major river mouths of equatorial Brazil). Syntypes, MHNN 1193 (1).

*Murenophis variegata* Castelnau 1855: 83, pl. 43 (fig. 2) (Rio de Janeiro, Brazil). Holotype (unique), MNHN B-2440. Secondarily preoccupied by *Muraena variegata* Rafinesque 1810.
Gymnothorax ocellatus var. januarius  Jordan & Davis 1891: 607. Replacement name for Murenophis variegata Castelnau, considered preoccupied.


Gymnothorax panamensis  (Steindachner 1876)
Muraena panamensis  Steindachner 1876: 67 [19] (Panama [Pacific]). Holotype (unique), NMW (not found).

Gymnothorax parini  Collette, Smith & Böhlke 1991

Gymnothorax phalarus  Bussing 1998

Gymnothorax phasmatodes  (Smith 1962)

Gymnothorax philippinus  Jordan & Seale 1907

Gymnothorax pictus  (Ahl 1789)
Muraena picta  Ahl 1789: 8, pl. 2 (right fig.) (East Indies). No types known.
Muraenophis pantherina  Lacepède 1803: 628, 641, 642 (No locality). Holotype (unique), MNHN B-3141.
Muraena variegata  Quoy & Gaimard 1824: 246, pl. 52 (fig. 1) (Guam, Mariana Is., w Pacific). Holotype, MNHN B-3142. Preoccupied by Muraena variegata Rafinesque, 1810.
Muraena lita  Richardson 1848: 84 (Molucca Is., Indonesia). Holotype (unique), BMNH 1846.2.16.111.
Muraena erythroptera  Solander in Richardson 1848: 86 (Society Is.). No types known.
Muraena atomaria  Solander in Richardson 1848: 86 (Society Is.). No types known.
Muraena siderea  Richardson 1848: 85, pl. 48 (figs. 1–5) (w and n shores of Australia; coast of New Guinea). Syntypes, BMNH 1846.9.11.16 (1), Australia, coll. Jukes. [1 syntype lost].
Muraena elegantissima  Kaup 1856b: 67 (Australia?). Holotype (unique), MNHN B.2466.
Muraena polyophthalmus  Bleeker 1858a: 15 (Manado, Sulawesi [Celebes], Indonesia). Holotype (unique), BMNH 1867.11.28.332.
**Gymnothorax thomsoni** Borodin 1928: 8, pl. 2 (figs. 1–2) (Galápagos Is. [or Cocos I., e Pacific]). Holotype (unique), AMNH 225216 [ex VMM 411].

**Gymnothorax pictus kowanensis** Aoyagi 1943: 27, fig. 9 (Bay of Kowan, Okinawa I., Ryukyu Is., Japan). Holotype (unique), not at YCM, apparently lost.


DISTRIBUTION: Indo-Pacific; eastern Pacific islands.

**Gymnothorax pikei** Bliss 1833

**Gymnothorax pikei** Bliss (ex Steindachner) 1883: 59 (Mauritius). Holotype (unique), MCZ 6145.

**Gymnothorax pikei** Seale 1917: 90 (Mauritius). Holotype (unique), MCZ 6145.

VERTEBRAE: 6, 59, 149 (holotype).

DISTRIBUTION: Mauritius and Papua New Guinea.

REMARKS: This species was based on a manuscript name by Steindachner. It was described independently by Bliss (1883) and Seale (1917).

**Gymnothorax pindae** Smith 1962

**Gymnothorax pindae** Smith 1962: 430, pl. 55 (fig. D) (Pinda, Mozambique). Holotype (unique), SAIAB 105.


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax polygonius** Poey 1875

**Gymnothorax polygonius** Poey 1875: 68, pl. 10 (Cuba). Holotype (unique), USNM 9825.


DISTRIBUTION: Eastern and western Atlantic.

**Gymnothorax polyspondylus** Böhlke & Randall 2000


VERTEBRAE: 4–89–233 (holotype).

DISTRIBUTION: Hawaiian Islands.

**Gymnothorax polyuranodon** (Bleeker 1853)

*Muraena polyuranodon* Bleeker 1853c: 248 (Ceram, Indonesia). Holotype (unique), whereabouts unknown.

*Polyuranodon kuhlii* Kaup 1856a: 65 (Ceram, Indonesia). Replacement name for *M. polyuranodon*.

*Uropterygius fijiensis* Fowler & Bean 1923: 9 (Lebukea, Fiji Is.). Holotype (unique), USNM 82774.

VERTEBRAE: 9–16, 67–75, 141–148 (MVF 12, 70, 144).

DISTRIBUTION: Indo-West Pacific.

**Gymnothorax porphyreus** (Guichenot 1848)

*Murenophis porphyreus* Guichenot 1848: 342, pl. 11 (fig. 2) (Juan Fernández Is., se Pacific). Syntypes, whereabouts unknown.

*Muraena chilensis* Günther 1872: 674 (Chile). Holotype (unique), BMNH 1871.9.13.881.

**Gymnothorax wieneri** Sauvage 1883: 161 [18] (Chile or Peru). Syntypes, MNHN A-4868 (2).

**Gymnothorax obscurirostris** Rendahl 1921: 62 (Easter I., se Pacific). Holotype (unique), NRM 7103.


VERTEBRAE: 5–8, 57–62, 137–144 (MVF 6, 59, 140).

DISTRIBUTION: Southern Pacific.

REMARKS: Böhlke & McCosker (2001) and Böhlke & Smith (2002) put *Gymnothorax griffini* in the synonymy of *Gymnothorax obesus*, although without seeing the specimen. McCosker & Stewart (2006) examined the specimen and determined that it is a synonym of *G. porphyreus*. 
**Gymnothorax prasinus** (Richardson 1848)

*Muraena prasina* Richardson 1848: 93 (Bondi Bay, Sydney, Australia). Holotype (unique), BMNH 2008.3.23.2 (mounted head and left skin).

**Gymnothorax jacksoniensis** Bleeker 1863d: 450 (Port Jackson, N. S. W., Australia). Holotype (unique), RMNH 3780.

*Muraena callorhyncha* Günther 1870: 122 (Fremantle, Western Australia). Holotype (unique), BMNH 1861.5.18.7.

*Muraena krulli* Hector 1877: 468, pl. 8 (bottom) (Bay of Islands, New Zealand). Holotype (unique), AIM (missing).

**Gymnothorax leecote** Scott 1965: 54, fig. 1 (Off George Rock, n of St. Helen’s, Tasmania, Australia, 10 fm). Holotype (unique), QVM 1964.5.0015 [ex QVM type 123].

**Gymnothorax prionodon** Ogilby 1895

*Gymnothorax prionodon* Ogilby 1895: 720 (Port Jackson, N. S. W., Australia). Holotype (unique), AMS I.3324.

*Muraena mieroszewskii* Steindachner 1896: 222 (Japan). Holotype (unique), NMW 61642.

**Gymnothorax leucostigma** Jordan & Richardson 1909: 174, pl. 68 (Kao-Hsiung [Takao], Taiwan). Holotype (unique), FMNH 52124 [ex CM 253].

**Gymnothorax nirosus** Tanaka 1918: 51 (Nagasaki fish market, Japan). Holotype (unique), ZUMT 8628 (lost).

*Muraena shirleyi* Griffin 1933: 172, pl. 24 (top); fig. (Mokohinau Is., New Zealand). Holotype (unique), AIM 289.1.

**Lycodontis wooliensis** Whitley 1968: 33, pl. 8, fig. 1 (20 mi. off Wooli, sw Australia, 29°52’S, 153°20’E). Holotype (unique), AMS IB.7941.

**Gymnothorax prismodon** Böhlke & Randall 2000


**Gymnothorax prolatus** Sasaki & Amaoka 1991

*Gymnothorax prolatus* Sasaki & Amaoka 1991: 7, figs. 1–3 (Suao fish market, ne coast of Taiwan). Holotype (unique), HUMZ 107775.

**Gymnothorax pseudoherrei** Böhlke 2000

*Gymnothorax pseudoherrei* Böhlke 2000: 408, figs. 2F, 3D, 7 (W side of Solino [Selinog] I., Zamboanga Del Norte, Mindanao, Philippines, 8°51'24"N, 123°24'36"E, , 0–4.6 m). Holotype, USNM 357430.

**Gymnothorax pseudothyrsoides** (Bleeker 1852)

*Muraena pseudothyrsoides* Bleeker 1852a: 778 (Makasar [Ujung Pandang], Sulawesi [Celebes], Indonesia). Holotype (unique), BMNH 1867.11.28.246.

*Gymnothorax makassaresiensis* Bleeker 1863b: 168 (Makasar [Ujung Pandang], Sulawesi [Celebes], Indonesia). Holotype (unique), RMNH 3768.

**DISTRIBUTION:** Southwestern Pacific.
Gymnothorax punctatofasciatus  Bleeker 1863
DISTRIBUTION: Western Pacific.

Gymnothorax punctatus  Bloch & Schneider 1801
Gymnothorax punctatus  Bloch & Schneider 1801: 526 (Tranquebar, India). Syntypes, ZMB 6141 (1, stuffed), 3989 (1).
DISTRIBUTION: Western Indian Ocean.

Gymnothorax randalli  Smith & Böhleke 1997
Gymnothorax randalli  Smith & Böhleke 1997: 185, figs. 1, 2, 8 (Sorongjunkong, Lombok, Indonesia). Holotype, BPBM 30138.
DISTRIBUTION: Indo-West Pacific.

Gymnothorax reevessi  (Richardson 1845)
Muraena reevessi  Richardson 1845a: no p., pl. 49 (fig. 2) (China seas). No types
Muraena microspila  Günther 1870: 109 (E. Indian Archipelago). Holotype (unique), BMNH 1867.11.28.238.
DISTRIBUTION: Indo-West Pacific.

Gymnothorax reticularis  Bloch 1795
Gymnothorax reticularis  Bloch 1795: 85, pl. 416 (Coromandel coast, India). Holotype (unique), ZMB 3986.
DISTRIBUTION: Indian Ocean.
REMARKS: This species is known from the coast of India and the Red Sea. The single Red Sea Specimen has more vertebrae (126) than the Indian specimens (114–120) (Smith and Böhleke 1997: 187).

Gymnothorax richardsonii  (Bleeker 1852)
Muraena troschelii  Bleeker 1853a: 45 (Boleling, n Bali; Sibogha, w Sumatra, Indonesia). Holotype (unique), RMNH 3784 [not 7201].
Muraena scoliodon  Bleeker 1853a: 43 (Sibogha, w Sumatra, Indonesia). Holotype (unique), BMNH 1867.11.28.327.
Muraena florisianna  Bleeker 1854a: 334 (Larantuka, Flores I., Lesser Sunda Is., Indonesia). Syntypes, not located.
Muraena venosa  Kaup 1856b: 68 (Timor I., s Malay Archipelago). Syntypes, RMNH (2) not found.
Muraena chrysops  Kaup 1856b: 70 (Tahiti, Society Is). Holotype (unique), MNHN 2118.
Muraena modesta  Kaup 1859: 21, pl. 4 (fig. 2). (Zanzibar). Holotype (unique), ZMH 3772.
DISTRIBUTION: Indo-West Pacific.
REMARKS: Muraena richardsonii and M. ceramensis were described in the same publication. Günther (1870: 118) included ceramensis in the synonymy of Muraena richardsonii, becoming the first reviser.
**Gymnothorax robinsi** Böhlke 1997

*Gymnothorax robinsi* Böhlke 1997b: 648, figs. 1–3 (Kai I., off nw corner of Tajandoe I., Indonesia, 5°31′24″S, 132°17′48″E, 3–6 m). Holotype, ANSP 144431.


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax rueppellii** (McClelland 1844)


*Muraena umbrofasciata* Rüppell 1852: 33 (Red Sea). Syntypes, SMF 151 (1), 2870 (1, skeleton, lost), 7346 (1, missing).

*Muraena nigrolimeata* Kaup 1856b: 66 (Marquesas Is). Holotype (unique), MNHN B-2467.

*Muraena interrupta* Kaup 1856b: 67, pl. 10 (fig. 51) (Clot Bay, Red Sea). Holotype (unique), MNHN B-2470.

*Muraena petelli* Bleeker 1856b: 84 (Ora Malang, Java, Indonesia). Holotype (unique), BMNH 1867.11.28.282.

*Sidera chlevastes* Jordan & Gilbert 1883d: 208 (Galapagos Is. [probably in error]). Holotype (unique), USNM 20385.

**Gymnothorax signifer** Bliss 1883: 58 (Mauritius). Holotype (unique), MCZ 6147.

**Gymnothorax leucaene** Jenkins 1903: 427, fig. 7 (Honolulu, Oahu I., Hawaiian Is., U.S.A). Holotype, USNM 50682.

**Gymnothorax waialuense** Snyder 1904: 520, pl. 6 (fig. 11) (Waialua Bay, Oahu I., Hawaiian Is., U.S.A). Holotype (unique), USNM 50870.


DISTRIBUTION: Indo-West Pacific.

**Gymnothorax ryukyuensis** Hatooka 2003

*Gymnothorax ryukyuensis* Hatooka 2003: 2, figs. 1, 2, 4. (Ryukyu Is). Holotype, FAKU 51606.

VERTEBRAE: 4–5, 57–59, 133–137.

DISTRIBUTION: Ryukyu Is.

**Gymnothorax sagmacephalus** Böhlke 1997

*Gymnothorax sagmacephalus* Böhlke 1997a: 100, figs. 12–14 (Yokohama Aquarium, Tokyo Bay, Japan).

Holotype (unique), USNM 149777.

VERTEBRAE: 7, 77, 172+ (holotype).

DISTRIBUTION: Japan.

**Gymnothorax saxicola** Jordan & Davis 1891


DISTRIBUTION: Western Atlantic.

**Gymnothorax serratidens** (Hildebrand & Barton 1949)

*Priodonophis serratidens* Hildebrand & Barton 1949: 3, fig. 1 (Talara, Peru). Holotype (unique), USNM 144253.

VERTEBRAE: 8, 68, 156 (holotype).

DISTRIBUTION: Southeastern Pacific.

**Gymnothorax shaoi** Chen & Loh 2007

*Gymnothorax shaoi* Chen & Loh 2007: 76, figs. 1, 2, 3a, 4 (Taiwan). Holotype, ASIZP 0062978.

VERTEBRAE: 3–5, 53–57, 125–130.

DISTRIBUTION: Taiwan.

**Gymnothorax sokotrensis** Kotthaus 1968

*Gymnothorax sokotrensis* Kotthaus 1968: 18, figs. 107, 150 (Off Sokotra I., Indian Ocean, 11°33.9′N, 52°54′E to 11°38′N, 52°52′E, Meteor sta. 102). Holotype (unique), ZMH 4940 [ex IOES 43].

VERTEBRAE: 8, 62, 143 (holotype).
DISTRIBUTION: Northwestern Indian Ocean.

*Gymnothorax steindachneri* Jordan & Evermann 1903


VERTEBRAE: 4–6, 49–51, 131–135 (MVF 5, 50, 132).

DISTRIBUTION: Hawaiian Islands.

*Gymnothorax taiwanensis* Chen, Loh & Shao 2008

*Gymnothorax taiwanensis* Chen, Loh & Shao 2008: 132, figs. 1, 2 (Taiwan). Holotype, ASIZ P0069371.


DISTRIBUTION: Taiwan.

*Gymnothorax thyrsoideus* (Richardson 1845)


*Thyrsoidea arenata* Kaup 1856a: 61 (China). Holotype, BMNH uncat. (651 mm TL) or MNHN A-8810. See Böhlke and Smith 2002: 94 for explanation of uncertainty over holotype.

*Echidna kishinouyei* Jordan & Snyder 1901: 885, fig. 21 (Okinawa I., Ryukyu Is., Japan). Holotype (unique), SU 6481.

VERTEBRAE: 3–6, 48–52, 125–137 (MVF 4, 50, 133).

DISTRIBUTION: Western and central Pacific.

*Gymnothorax tile* (Hamilton 1822)

*Muraenophis tile* Hamilton 1822: 18, 363 (Ganges R. estuaries near Calcutta, India). No types known.

*Lycodontis literata* McClelland 1844: 186 (203, 215), pl. 7 (fig. 2) (Calcutta market, Bengal, India). No types known.

*Strophidon maculata* McClelland 1844: 203, 215, pl. 8 (fig. 1). A replacement name for *M. tile*.


*Gymnothorax borneensis* Bleeker 1863: 169 (Borneo). Holotype (unique), RMNH 3797.

VERTEBRAE: 7–12, 55–58, 120–130 (MVF 10, 57, 125).

DISTRIBUTION: Indo-West Pacific.

*Gymnothorax undulatus* (Lacepède 1803)

*Muraenophis undulata* Lacepède (ex Commerson) 1803: 629, 642, pl. 19 (fig. 2) (No locality). Holotype (unique), whereabouts unknown.

*Muraena cancellata* Richardson 1848: 87, pl. 46 (figs. 1–5) (w. Australia; n. Australia; Sumatra, Indonesia). Syntypes, BMNH (3, not found), MNHN (not found).

*Muraena valessiennii* Eydoux & Souleyet 1850: 207, pl. 8 (fig. 1) (Hawaiian Is., U.S.A.). Holotype, MNHN 0487.

*Muraena blochi* Bleeker 1853a: 49 (Siboga, w. Sumatra, Indonesia). Holotype (unique), BMNH 1867.11.28.330 (reported missing by Böhlke & Smith 2002, but presence confirmed by J. McClaine, pers. comm.).

*Muraena agassizi* Bleeker 1855b: 458 (Cocos Is., Indian Ocean). Holotype (unique), BMNH 1867.11.28.250.


DISTRIBUTION: Indo-Pacific.
**Gymnothorax unicolor** (Delaroche 1809)
*Muraenophis unicolor* Delaroche 1809: 359 [73], pl. 25 (fig. 15) (Ibiza, Balearic Is., Spain). Holotype, MNHN B-2413.

*Muraenophis cristini* Risso 1810: 368 (Nice, France). Holotype, MNHN (not found).

VERTEBRAE: —, —, 136–146.

DISTRIBUTION: Eastern Atlantic.

**Gymnothorax vagrans** (Seale 1917)
*Muraenophis vagrans* Seale 1917: 88 (Questionably South America). Holotype (unique), MCZ 2532B.

VERTEBRAE: ca 3, 56, 139 (holotype).

DISTRIBUTION: Unknown locality.

**Gymnothorax verrilli** (Jordan & Gilbert 1883)
*Sidera verrilli* Jordan & Gilbert 1883b: 623 (Panama [Pacific]). Holotype (unique), YPM 8042.


DISTRIBUTION: Eastern Pacific.

**Gymnothorax vicinus** (Castelnau 1855)
*Murenophis vicina* Castelnau 1855: 81, pl. 42 (fig. 4) (Bahia, Brazil). Holotype (unique), MNHN B-2423.

*Thyrsoidea cormura* Kaup 1859: 23, suppl. 4, pl. 3 (fig. 2) (Puerto Cabella, Venezuela). No types known.

*Muraena erebus* Poey 1861: 426 (Cuba). No types known.

**Gymnothorax obscuratus** Poey 1870: 320 (Havana, Cuba). Holotype (unique), MCZ 27217.

**Gymnothorax virescens** Poey 1876: 198 [156], pl. 9 [6] (fig. 1) (Cuba). Holotype, not at MCZ.


**Gymnothorax carcinognathus** Fowler 1912: 22, fig. 5 (St. Martin I., West Indies). Holotype (unique), ANSP 38163.

**Gymnothorax cyanopunctatus** Howell Rivero 1932: 17 (Matanzas, Cuba). Holotype, MCZ 32787.

**Lycodontis guarapariensis** Pinto 1975: 401, figs. 1–2 (Guarapari, Espírito Santo, Brazil). Holotype, MHNI 208.


DISTRIBUTION: Eastern and western Atlantic.

**Gymnothorax walvisensis** Prokofiev & Kukuev 2009

VERTEBRAE: 5, 50, 134.

DISTRIBUTION: Southeastern Atlantic.

**Gymnothorax woodwardi** McCulloch 1912
*Gymnothorax woodwardi* McCulloch 1912: 80 [3], fig. 1 (Pelsart I., Houtman Abrolhos, Western Australia). Holotype, WAM P.13263-001.

VERTEBRAE: 4–5, 56–58, 134–141 (MVF 4, 57, 137).

DISTRIBUTION: Southeastern Atlantic.

**Gymnothorax ypsilon** Hatooka & Randall 1992


DISTRIBUTION: Western and central Pacific.

**Gymnothorax zonipectis** Seale 1906
*Gymnothorax zonipectis* Seale 1906: 7, fig. 1 (Tahiti, Society Is). Holotype (unique), BPBM 1362.

*Gymnothorax indong* Seale 1910: 491 (Zamboanga, Mindanao, Philippines). Holotype (unique), BSMP 4445 (apparently destroyed).
**Genus Monopenchelys Böhlke & McCosker 1982**

*Monopenchelys* Böhlke & McCosker 1982: 127. Type species *Uropterygius acutus* Parr 1930, by original designation (also monotypic). Feminine.

**Monopenchelys acuta** (Parr 1930)

*Uropterygius acutus* Parr 1930: 16, fig. 2 (West Caicos I., Bahamas, 30 fm [stomach contents]). Holotype (unique), YPM 2604.

**DISTRIBUTION:** Cosmopolitan.

**REMARKS:** The wide range of vertebral counts and the broad distribution suggest that more than one species may be involved.

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**Genus Muraena Linnaeus 1758**

*Muraena* Linnaeus 1758: 244. Type species *Muraena helena* Linnaeus 1758, by Opinion 1672, ICZN. Feminine.


*Limomuraena* Kaup 1856a: 65. Type species *Limomuraena guttata* Kaup 1856, by monotypy. Feminine. (Sometimes misspelled as *Limamuraena*).

**REMARKS:** Jordan and Gilbert (1883a: 355) designated *Muraena helena* as the type species of *Muraena*, overlooking Bleeker’s (1864b: 113) earlier designation of *M. anguilla*. The International Commission on Zoological Nomenclature, in Opinion 1672, suppressed Bleeker’s priority and placed *helena* on the Official List as the type species of *Muraena*.

*Muraena argus* (Steindachner 1870)

*Gymnothorax (Limamuraena) argus* Steindachner 1870: 639 [17], pl. 4 (Altata, Sinaloa, w coast of Mexico). Holotype (unique), NMW 75551.

*Muraena albignutta* Hildebrand 1946: 132, fig. 30 (Lobos de Afuera I., Peru, 6°56’S, 80°43’W). Holotype, USNM 127840.

**VERTEBRAE:** 4–5, 53, 128–129 (MVF 4, 53, 128).

**DISTRIBUTION:** Eastern Pacific.

*Muraena augusti* (Kaup 1856)

*Muraena guttata* Solander and Richardson in Richardson 1848:90. Preoccupied by *Muraena guttata* Forsskål 1775 (Pseudochromidae).

*?Thyroidea dumerili* Kaup 1856a: 62.

*Thyroidea augusti* Kaup 1856b: 88 (Madeira). No types known.

*Thyroidea atlantica* Johnson 1862: 68 (Sea near Madeira, ne Atlantic). Holotype (unique), BMNH 1862.2.5.2.

*Muraena bettencourti* Osório 1911: 76, pl. 2 (fig. 2) (Ilha de Santo Antão, Cape Verde Is.). Holotype (unique), MB (destroyed in 1978 fire).

**VERTEBRAE:** 4–5, 51–55, 137–143.

**DISTRIBUTION:** Eastern Atlantic.

**REMARKS:** For some time, this species was considered a synonym of *Muraena helena* Linnaeus 1758, but its distinction has recently been confirmed (Jimenez et al. 2007). Kaup (1856a: 62) presented the name *Thyroidea dumerili* (written as *Th. A. Dumerili* Kp.) and stated (translated from German) “Sir Richardson confused this species with *Lemamuraena* [sic] *guttata*,” apparently intending the new name to apply to the species described by Richardson under the name *guttata*. *Limomuraena guttata* appeared on page 65 of the same publication (Kaup...
1856a), apparently as a new combination for *Muraena guttata* Solander and Richardson. This treatment makes little sense, as Kaup was apparently accepting and rejecting Richardson’s identification at the same time. The name *dumerili* never appeared again, and Kaup (1865b: 88) described a new species, *Thyrsoidea augusti*, based on a verbatim copy of Richardson’s description of *Muraena guttata*. One could make a case that *dumerili* has priority over *augusti*, but considering the confusion over what Kaup was referring to, this would probably be unwise. As the name *dumerili* has never been used since (even by Kaup), it could in any case be considered a nomen oblitum under Article 23.9 of the ICZN.

**Muraena clepsydra** Gilbert 1898
*Muraena clepsydra* Gilbert in Jordan & Evermann 1898: 2805 (Panama [Pacific]). Holotype, SU 6807.

**Muraena helena** Linnaeus 1758
*Muraena helena* Linnaeus 1758: 244 (Europe; America). Syntypes, ZMUU Linn. Coll. 57 (1, only surviving specimen).

**Gymnothorax muraena** Bloch & Schneider 1801: 525. No types known.

**Muraena romana** Shaw 1803: 26 (Mediterranean Sea). No types known.

**Muraena punctata** Rafinesque 1810a: 68, pl. 15 (fig. 2) (Sicily). No types known.

**Muraena variegata** Rafinesque 1810a: 67 (Sicily). No types known.

**Muranoepis fulva** Risso 1810: 367 (Nice, France). No types known.


**Muraena helena australiae** Richardson 1848: 80, pl. 49 (figs. 1–6) (Eastern Atlantic, not Australia). Holotype (unique), BMNH 1847.5.10.16.

**Muraena vorax** Ogilby 1907: 11 (Eastern Atlantic based on type, not Western Australia). Holotype (unique), BMNH 1847.5.10.16. Unnecessary replacement name for *Muraena helena australiae* Richardson 1848.

**Muraena bettencourti** Osório 1911: 76, pl. 2 (fig. 2) (Ilha de Santo Antão, Cape Verde Is.). Holotype (unique), MB (destroyed in 1978 fire).

**Muraena lentiginosa** Jenyns 1842

**Muranoepis marmoratus** Valenciennes 1846: no p., pl. 10 (fig. 1) (Galápagos Is.). Holotype (unique), MNHN A-8533.

**Muraena aquaedulcis** Cope 1872: 474 (Rio Grande, near San José, Costa Rica). Holotype (unique), ANSP 14925. See *Echidna nocturna* for comments on the stated locality.


CHECKLIST OF MORAY EELS

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Muraena insularum  Jordan & Davis 1891: 609 (San Cristóbal I. [Chatham I.], Galápagos Is.). Holotype, USNM 38300.

Lycodontis xanthospilus  Fowler 1944: 317, figs. 69–71 (James Bay, James I., Galápagos Is.). Holotype (unique), ANSP 70026.

VERTEBRAE: 4–5, 44–51, 113–130 (or 126?) (MVF 4, 48, 118).

DISTRIBUTION: Eastern Pacific.

Muraena melanotis  (Kaup 1859)

Limamuraena melanotis  Kaup 1859: 27, pl. 4 (fig. 3) (West Africa). Holotype (unique), ?ZMH H390.

Muraena (Muraena) albomarginata  Pfaff 1933: 305, pl. 6 (figs. 1–3) (Dakar, w Africa). Holotype (unique), ZMUC.

VERTEBRAE: —, —, 121–127.


Muraena pavonina  Richardson 1845

Muraena pavonina  Richardson 1845a: no p., pl. 53 (figs. 1–6) (No locality [probably Ascension I.]). Holotype (unique), BMNH 1985.2.19.4.


DISTRIBUTION: Southwestern Atlantic; Eastern Atlantic.

Muraena retifera  Goode & Bean 1882

Murenophis punctata  Castelnau 1855: 82, pl. 42 (Rio de Janeiro, Brazil) Holotype, MNHN B-2411. Secondarily preoccupied by Muraena punctata Rafinesque 1810.


DISTRIBUTION: Western Atlantic.

Muraena robusta  Osório 1911

Muraena robusta  Osório 1911: 75, pl. 2 (fig. 1) (Ilha de Santo Antão, Cape Verde Is.). Holotype (unique), MB (destroyed in 1978 fire).

Gymnothorax nivezi  Roux in Collignon, Rossignol & Roux 1957: 164, fig. 17 (Pointe-Noire, sw Congo). Syntypes, ORSTOM Pointe Noire or MNHN (1, described specimen).

Gymnothorax galeatae  Rubinoff 1966: 1, fig. 1 (Galeta I., 9°24′20″N, 79°52′18″W, Panama [Atlantic]). Holotype (unique), MCZ 44035.

VERTEBRAE: 3–4, 62–65, 149–158

DISTRIBUTION: Atlantic.

Genus Pseudechidna  Bleeker 1863

Pseudechidna  Bleeker 1863c: 272. Type species Muraena brummeri  Bleeker 1858, by monotypy. Feminine.

Pseudechidna brummeri  (Bleeker 1858)

Muraena brummeri  Bleeker 1858b: 137 (Atapupu, Timor I., s Malay Archipelago). Holotype (unique), BMNH 1867.11.28.259.

Strophidon polyodon  Bleeker 1864a: 47 (Ambon I., Molucca Is., Indonesia). Holotype (unique), BMNH or RMNH (not found).


Gymnothorax megapterus  Weber 1913: 57, pl. 7 (fig. 1) (Seba, Savu [Sawu] I., Siboga sta. 58). Holotype (unique), ZMA 108474.

VERTEBRAE: 4–7, 89–98, 201–214 (MVF 6, 93, 207).

DISTRIBUTION: Indo-West Pacific.
Genus *Rhinomuraena* Garman 1888


*Nettastomops* Steindachner 1906: 299. Type species *Nettastomops barbatula* Steindachner 1906, by monotypy. Masculine.

*Rhinomuraena quaesita* Garman 1888


*Nettastomops barbatula* Steindachner 1906: 299 (Upolu I., Samoa Is.). Holotype (unique), NMW 61038.


VERTEBRAE: 5, 89–90, 276–281 (holotypes of *quaesita* and synonyms).

DISTRIBUTION: Indo-West Pacific.

Genus *Strophidon* McClelland 1844


*Evenchelys* Jordan & Evermann 1902: 327. Type species *Muraena macrurus* Bleeker 1854, by original designation (also monotypic). Feminine.

*Rhabdura* Ogilby 1907: 12. Type species *Muraena macrurus* Bleeker 1854, by monotypy. Feminine.

*Strophidon sathele* (Hamilton 1822)

*Muraenophis sathele* Hamilton 1822: 17, 363 (Ganges estuaries near Calcutta, India). No types known.

*Lycodontis longicaudata* McClelland 1844: 187 (203, 215). pl. 8 (fig. 2) (Bengal). No types known.

*Muraena macrurus* Bleeker 1854b: 324 (Freto Sundaico, Anjer, Indonesia). Holotype (unique), BMNH 1867.11.28.212.

*Thyrsoidea longissima* Kaup 1856a: 61 (Bombay, India). Holotype (unique), MNHN 2134.

*Strophidon ui* Tanaka 1918: 52 (Tanaba, Wakayama Pref., Japan). Holotype (unique), ZUMT (lost).

VERTEBRAE: 8–11, 73–82, 186–208 (MVF 10, 78, 196).

DISTRIBUTION: Indo-West Pacific.

REMARKS: This species has commonly appeared in the literature as *Thyrsoidea macrura*, which was a new combination but not a new name.

Subfamily Uropterygiinae


Genus *Anarchias* Jordan & Starks 1906

*Anarchias* Jordan & Starks in Jordan & Seale 1906: 204. Type species *Anarchias allardicei* Jordan & Starks 1906, by original designation. Masculine.

*Anarchias allardicei* Jordan & Starks 1906

*Anarchias allardicei* Jordan & Starks in Jordan & Seale 1906: 204, fig. 9 (Pago Pago, American Samoa). Holotype, USNM 51715.


DISTRIBUTION: Indo-West Pacific.
Anarchias cantonensis (Schultz 1943)

Uropterygius cantonensis Schultz 1943: 27, pl. 4; fig. 3a (Lagoon of Canton I., Phoenix Is.). Holotype, USNM 115904.

DISTRIBUTION: Indo-West Pacific.

Anarchias exulatus Reece, Smith & Holm 2010

Anarchias exulatus Reece, Smith & Holm, 2010: 425, figs. 3, 8 (Eua I., Tonga Is.). Holotype USNM 328944.

VERTEBRAE: 96–105, 97–107, 110–117 (MVF 100, 103, 114).
DISTRIBUTION: Central Pacific, anti-tropical.

Anarchias galapagensis (Seale 1940)

Uropterygius galapagensis Seale 1940: 6, pl. 1 (Post Office Bay, Santa María I. [Charles I.], Galápagos Is). Holotype (unique), CAS 5744.

DISTRIBUTION: Eastern Pacific.

Anarchias leucurus (Snyder 1904)

Uropterygius leucurus Snyder 1904: 521, pl. 6 (fig. 12) (Auau Channel, between Maui I. and Lanai I., Hawaiian Is., Albatross sta. 3874, 21–28 fm). Holotype (unique), USNM 50871.

VERTEBRAE: 94–100, 98–102, 106–112 (MVF 98, 100, 110).
DISTRIBUTION: Hawaiian Islands.

Anarchias longicauda (Peters 1877)

Muraena longicauda Peters 1877: 850 (South of Leton Rock, Atlantic, 15°40'01"N, 23°05'08"W, 38 fm). Holotype (unique), ZMB 9776.

Leptocephalus euryurus Lea 1913: 25, figs. 21–22; pl. 4 (no. 4) (North Atlantic, 28°52'N, 14°16'W, sta. 34, 200–500 m; 28°42'N, 20°00'W, sta. 45, 1000 m). Syntypes, (2) ZMUB 2502 (2?).


DISTRIBUTION: Eastern Atlantic.

Anarchias schultzi Reece, Smith & Holm 2010

Anarchias schultzi Reece, Smith & Holm 2010: 427, figs. 3, 9 (Tongatapu, Tonga Is.). Holotype USNM 334773

DISTRIBUTION: Western Pacific, Tonga to Caroline Is.

Anarchias seychellensis Smith 1962


DISTRIBUTION: Indo-West Pacific.

Anarchias similis (Lea 1913)

Leptocephalus similis Lea 1913: 26, figs. 23–24; pl. 4 (nos. 5–6) (North Atlantic, 34°44'N, 47°52'W, sta. 64, 100 and 1000 m). Syntypes, ZMUB 2504 (1), 5113 (1).

Anarchias yoshiae Kanazawa 1952: 75, fig. 10 (Ship’s channel, Bermuda). Holotype, FMNH 48729.

DISTRIBUTION: Atlantic.

Anarchias supremus McCosker & Stewart 2006


VERTEBRAE: 122, 127, 135 (holotype).
DISTRIBUTION: New Zealand.
Genus *Channomuraena* Richardson 1848

*Channomuraena* Richardson 1848: 96. Type species *Ichthyophis vittatus* Richardson 1845, by monotypy. Feminine.

**Cirrimaxilla** Chen & Shao 1995: 328. Type species *Cirrimaxilla formosa* Chen & Shao 1995, by original designation (also monotypic). Feminine.

*Channomuraena bauchotae* Saldanha & Quéro 1994

*Channomuraena bauchotae* Saldanha & Quéro 1994: 308, fig. 1 (Réunion, Indian Ocean, 19°41.4'S, 54°08.7'E, 55 m). Holotype (unique), MNHN 1992-1386.

*Cirrimaxilla formosa* Chen & Shao 1995: 330, fig. 1 (Nanwan, s tip of Taiwan, Ping-tung Co., Hengchon, 120°46'E, 21°57'N, tide pool). Holotype (unique), ASIZP 056729.


DISTRIBUTION: Reunion, Indian Ocean; Taiwan.

*Channomuraena vittata* (Richardson 1845)

*Ichthyophis vittatus* Richardson 1845a: no p., pl. 53 (figs. 7–9) (Locality uncertain, brought from China). Holotype (unique), BMNH 1855.10.16.280 (dry).

*Gymnomuraena bennettii* Günther 1870: 135 (Mauritius). Holotype (unique), BMNH 1856.2.24.7 (stuffed).

*Channomuraena cubensis* Poey 1868: 266, pl. 3 (fig. 6) (Cuba). Holotype, MCZ 9191.


DISTRIBUTION: Circumtropical.

Genus *Scuticaria* Jordan & Snyder 1901


*Scuticaria* Jordan & Snyder 1901: 886. Type species *Ichthyophis tigrinus* Lesson 1828, by original designation (also monotypic). Feminine.

*Scuticaria okinawae* (Jordan & Snyder 1901)

*Uropterygius okinawae* Jordan & Snyder 1901: 886, fig. 22 (Okinawa I., Ryukyu Is., Japan). Holotype (unique), SU 6482.

*Gymnomuraena brevicauda* Regan 1903: 414, pl. 13 (fig. 1) (Mauritius). Holotype (unique), MHNG 665.54.

*Scuticaria unicolor* Seale 1917: 94 (Society Is.). Holotype, MCZ 9188.


DISTRIBUTION: Indo-West Pacific.

*Scuticaria tigrina* (Lesson 1828)


DISTRIBUTION: Indo-West Pacific and Eastern Pacific.

Genus *Uropterygius* Rüppell 1838


*Scutica* Jordan & Evermann 1896: 403, 404. Type species *Gymnomuraena nectura* Jordan & Gilbert 1882. Type by original designation (also monotypic). Feminine.
**Uropterygius alboguttatus** Smith 1962
DISTRIBUTION: Indo-West Pacific.

**Uropterygius concolor** Rüppell 1838
*Uropterygius concolor* Rüppell 1838: 83, pl. 20 (fig. 4) (Massawa, Eritrea, Red Sea). Lectotype, SMF 746, designated by Böhlke 1982: 40.
*Anarchias vermiformis* Smith 1962: 429, pl. 53 (fig. H); fig. 6 (Zanzibar, Indian Ocean). Holotype (unique), SAIAB 319.
DISTRIBUTION: Indo-West Pacific.
REMARKS: This name has been applied to many unpatterned *Uropterygius* specimens from the Indo-Pacific, but they may not all belong to the same species. More study is needed.

**Uropterygius fasciolatus** (Regan 1909)
DISTRIBUTION: Western Pacific.

**Uropterygius fuscoguttatus** Schultz 1953
DISTRIBUTION: Western Pacific.

**Uropterygius genie** Randall & Golani 1995
*Uropterygius genie* Randall & Golani 1995: 872, figs. 7–9 (Ras Muhammad, Sinai Peninsula, Red Sea). Holotype, HUJ 5863.
DISTRIBUTION: Red Sea.

**Uropterygius golanii** McCosker & Smith 1997
*Uropterygius golanii* McCosker & Smith 1997: 1011, fig. 3 (Strait of Jubal, s end of Sinai Peninsula at Ras Muhammed, Egypt, Red Sea, 0–10 m). Holotype, USNM 312830.
DISTRIBUTION: Red Sea.

**Uropterygius inornatus** Gosline 1958
DISTRIBUTION: Indo-West Pacific.

**Uropterygius kamar** McCosker & Randall 1977
DISTRIBUTION: Indo-West Pacific.
Uropterygius macrocephalus  (Bleeker 1864)
Gymnomuraena macrocephalus  Bleeker 1864a: 54 (Ambon I., Molucca Is., Indonesia). Holotype (unique), BMNH 1867.11.28.335.
Gymnomuraena nectura  Jordan & Gilbert 1882b: 356 (Cape San Lucas, Baja California, Mexico). Holotype (unique), USNM 15442.
Anarchias knighti  Jordan & Starks in Jordan & Seale 1906: 205, fig. 10 (Apia, Upolu I., Western Samoa). Holotype, USNM 51716.
Uropterygius reidi  Schultz 1943: 32, pl. 5 (Reef of Tau I. at Siulagi Point, American Samoa). Holotype, USNM 116077.

DISTRIBUTION: Indo-West Pacific, eastern Pacific.
REMARKS: The wide range of vertebral counts suggests that more than one species may be involved. Further studies are needed.

Uropterygius macularius  (Lesueur 1825)
Muraenophis macularia  Lesueur 1825: 107, pl. 4 (fig. 1) (Sandy Cay, near Nassau, Great Bahama Bank, Bahamas, 0–20 ft). Neotype, ANSP 106286. designated by Böhlke et al. 1989: 128.
Uropterygius diopus  Böhlke 1967: 91, fig. 1 (Sandy Cay, near Nassau, Great Bahama Bank, Bahamas, 0–20 ft). Holotype, ANSP 106286.
DISTRIBUTION: Western Atlantic.
REMARKS: The original type locality for Muraenophis macularia was Barbados. The specimen selected for the neotype is the same as the holotype of Uropterygius diopus.

Uropterygius marmoratus  (Lacepède 1803)
DISTRIBUTION: Indo-West Pacific.

Uropterygius micropterus  (Bleeker 1852)
Anarchias reticulatus  Herre 1923: 230, pl. 9 (fig. 3) (Sitanki, Philippines). Syntypes, BSMP (3), presumed destroyed.
Uropterygius tinkhami  Fowler 1945: 59, figs. 1–2 (Saipan I., Mariana Is., w Pacific). Holotype, ANSP 71585.
DISTRIBUTION: Indo-West Pacific.

Uropterygius nagoensis  Hatooka 1984
Uropterygius nagoensis  Hatooka 1984: 20, figs. 1–4 (Nago fish market, Okinawa I., Ryukyu Is.). Holotype (unique), FAKU 51431.
VERTEBRAE: 118, 124–125, 139–140 (MVF 118, 124, 140).
DISTRIBUTION: Indo-West Pacific.

Uropterygius oligospondylus  Chen, Randall & Loh 2008
Uropterygius oligospondylus  Chen, Randall & Loh in Chen 2008: 141, figs. 1H, 3, 4 (Taiwan). Holotype, TOU-AE 1862.
VERTEBRAE: 79–81, 83–85, 100–103 (types).
DISTRIBUTION: Western Pacific.

**Uropterygius polyspilus** (Regan 1909)
DISTRIBUTION: Indo-West Pacific.

**Uropterygius polystictus** Myers & Wade 1941
*Uropterygius polyspilus* Myers & Wade 1941: 85, pl. 15 (S. Seymour I., Galápagos Is.). Holotype, LACM 23345 [ex AHF 16].
VERTEBRAE: 116, 117, 124 (holotype).
DISTRIBUTION: Eastern Pacific.

**Uropterygius supraforatus** (Regan 1909)
*Uropterygius dentatus* Schultz in Schultz et al. 1953: 152, fig. 32 (N. ocean reef, Johnston I., Pacific). Holotype (unique), USNM 141637.
DISTRIBUTION: Indo-West Pacific.
REMARKS: The Hawaiian population, described as *U. dentatus*, has a much higher vertebral count (116, 122, 136 in the holotype of *dentatus*) than those from elsewhere in the Indo-Pacific (101, 105, 122 in the holotype of *supraforatus*). *Uropterygius dentatus* might be a valid species.

**Uropterygius versutus** Bussing 1991
*Uropterygius versutus* Bussing 1991: 97, figs. 1–3 (Mainland Pacific Costa Rica, eastern side of islet, 1 kilometer east of Isla Alcatraz, Islas Tortugas, 9°47’02”N, 84°53’32”W, depth 1–4 m). Holotype, LACM 32517–52.
DISTRIBUTION: Eastern Pacific.

**Uropterygius wheeleri** Blache 1967
*Uropterygius wheeleri* Blache 1967b: 1716, figs. 6–9 (Cape Verde Is., e Atlantic). Holotype, MB T140a (lost in fire, 1978).
DISTRIBUTION: Eastern Atlantic.

**Uropterygius xanthopterus** Bleeker 1859
*Uropterygius xanthopterus* Bleeker 1859: 350 (Patjitan, Java, Indonesia). Holotype (unique), BMNH 1867.11.28.271.
DISTRIBUTION: Indo-West Pacific.

**Uropterygius xenodontus** McCosker & Smith 1997
*Uropterygius xenodontus* McCosker & Smith 1997: 1006, figs. 1–2 (Chesterfield Bank, 19°53.5’S, 158°28.2’E, se side of lagoon, Coral Sea, 6–9 m). Holotype, BPBM 33558.
DISTRIBUTION: Western Pacific.

**GENERA OF FAMILY MURAENIDAE**
*Aemasia* Jordan & Snyder 1901 = *Enchelycore* Kaup 1856
*Ahnmodontophis* Fowler 1912 = *Gymnothorax* Bloch 1795
*Anarchias* Jordan & Starks 1906 = *Anarchias* Jordan & Starks 1906
Arndha Deraniyagala 1931 = Gymnomuraena Lacepède 1803
Channomuraena Richardson 1848 = Channomuraena Richardson 1848
Chasmenchelys Fowler 1944 = Gymnothorax Bloch 1795
Cirrirmaxilla Chen & Shao 1995 = Channomuraena Richardson 1848
Diaphenchelys McCosker & Randall 2007 = Diaphenchelys McCosker & Randall 2007
Echidna Forster 1788 = Echidna Forster 1788
Enchelycore Kaup 1856 = Enchelycore Kaup 1856
Enchelynassa Kaup 1855 = Enchelynassa Kaup 1855
Eurymyctera Kaup 1856 = Enchelycore Kaup 1856
Evenchelys Jordan & Evermann 1902 = Strophidon McClelland 1844
Fimbrinares Whitley 1948 = Enchelycore Kaup 1856
Gymnomuraena Lacepède 1803 = Gymnomuraena Lacepède 1803
Gymnopsis Rafinesque 1815 = Gymnomuraena Lacepède 1803
Gymnothorax Bloch 1795 = Gymnothorax Bloch 1795
Heteromyrus Pietschmann 1935 = Gymnothorax Bloch 1795
Ichthyophis Lesson 1828 (Preoccupied) = Scuticaria Jordan & Snyder 1901
Leihala Jordan 1925 = Echidna Forster 1788
Limomuraena Kaup 1856 = Muraena Linnaeus 1758
Lycodontis Jordan & Evermann 1896 = Gymnothorax Bloch 1795
Megalurus Rafinesque 1815 = Echidna Forster 1788
Molarii Richardson 1848 = Echidna Forster 1788, if considered available.
Monopenchelys Böhlke & McCosker 1982 = Monopenchelys Böhlke & McCosker 1982
Muraena Linnaeus 1758 = Muraena Linnaeus 1758
Muraenoblenna Kaup 1856 = Scuticaria Jordan & Snyder 1901
Muraenophis Lacepède 1803 = Muraena Linnaeus 1758
Murenophis Cuvier 1797 = Muraena Linnaeus 1758
Neomuraena Girard 1858 = Gymnothorax Bloch 1795
Nettastomops Steindachner 1906 = Rhinomuraena Garman 1888
Notorabula Whitley 1934 = Gymnothorax Bloch 1795
Poecilophis Kaup 1856 = Echidna Forster 1788
Polyuranodon Kaup 1856 = Gymnothorax Bloch 1795
Priodonophis Kaup 1859 = Gymnothorax Bloch 1795
Pseudechidna Bleeker 1863 = Pseudechidna Bleeker 1863
Pseudomuraena Johnson 1862 = Gymnothorax Bloch 1795
Rabula Jordan & Davis 1891 = Gymnothorax Bloch 1795
Rhabdura Ogilby 1907 = Strophidon McClelland 1844
Rhinechidna Barbour 1908 = Enchelycore Kaup 1856
Rhinomuraena Garman 1888 = Rhinomuraena Garman 1888
Scutica Jordan & Evermann 1896 = Uropterygius Rüppell 1838
Scuticaria Jordan & Snyder 1901 = Scuticaria Jordan & Snyder 1901
Serranguilla Whitley & Phillipps 1939 = Gymnothorax Bloch 1795
Siderea Kaup 1856 = Gymnothorax Bloch 1795
Strophidon McClelland 1844 = Strophidon McClelland 1844
Taeniophis Kaup 1859 = Gymnothorax Bloch 1795
Thaerodontis McClelland 1844 = Gymnothorax Bloch 1795
Thyrisoidea Kaup 1856 = Gymnothorax Bloch 1795
Uropterygius Rüppell 1838 = Uropterygius Rüppell 1838
Verdithorax Whitley 1931 = Gymnothorax Bloch 1795

UNAVAILABLE GENERIC NAMES
Chamomuraena Kaup in Duméril 1856: 201. Nomen Nudum.

SPECIES OF FAMILY MURAENIDAE
acutirostris, Muraena Abbott 1860 = Gymnothorax undulatus (Lacepède 1803)
acutis, Muraena Seale 1917 = Echidna nocturna (Cope 1872)
acutus, Uropterygius Parr 1930 = Monopenchelys acuta (Parr 1930)
afer, Gymnothorax Bloch 1795 = Gymnothorax afer Bloch 1795
africana, Muraena Shaw 1803 = Gymnothorax afer Bloch 1795
agassizi, Muraena Bleeker 1855 = Gymnothorax undulatus (Lacepède 1803)
albigutta, Muraena Hildebrand 1946 = Muraena argus (Steindachner 1870)
albimarginata, Muraena Temminck & Schlegel 1846 = Gymnothorax albimarginatus (Temminck & Schlegel 1846)
albimentis, Lycodontis Evermann & Marsh 1900 = Gymnothorax moringa (Cuvier 1829)
alboguttatus, Uropterygius Smith 1962 = Uropterygius alboguttatus Smith 1962
albomaculatus, Gymnothorax Bliss 1883 = Gymnothorax elegans Bliss 1883
albomarginata, Muraena (Muraena) Pfaff 1933 = Muraena melanotis (Kaup 1859)
allardicei, Anarchias Jordan & Starks 1906 = Anarchias allardicei Jordan & Starks 1906
alusis, Muraena Bleeker 1856 = Echidna catenata (Bloch 1795)
amblyodon, Muraena Bleeker 1856 = Echidna amblyodon (Bleeker 1856)
ambonensis, Rhinomuraena Barbour 1908 = Rhinomuraena quaesita Garman 1888
anatina, Muraena Lowe 1838 = Enchelycore anatina (Lowe 1838)
anguina, Muraena Gronow 1854 = Enchelycore nigricans (Bonnaterre 1788)
angusticeps, Priodonophis Hildebrand & Barton 1949 = Gymnothorax angusticeps (Hildebrand & Barton 1949)
anasona, Gymnothorax flavimarginatus Whitley 1937 = Gymnothorax annasona Whitley 1937
annulatus, Gymnothorax Smith & Böhlke 1997 = Gymnothorax annulatus Smith & Böhlke 1997
aquedulcis, Muraena Cope 1872 = Muraena lentiginosa Jenyns 1842
arae, Gymnothorax Borodin 1928 = Echidna nocturna (Cope 1872)
arenata, Thysioidea Kaup 1856 = Gymnothorax thyrsoideus (Richardson 1845)
argus, Gymnothorax (Limamuraena) Steindachner 1870 = Muraena argus (Steindachner 1870)
aterrima, Thysioidea Kaup 1859 = Gymnothorax funebris Ranzani 1839
atlantica, Thysioidea Johnson 1862 = Muraena augusti (Kaup 1856)
atolli, Heteromyrus Pietschmann 1935 = Gymnothorax atolli (Pietschmann 1935)
atomaria, Muraena Solander 1848 = Gymnothorax pictus (Ahl 1789)
augusti, Thysioidea Kaup 1856 = Muraena augusti (Kaup 1856)
auloptera, Muraena De Filippi 1853 = Echidna nebulosa (Ahl 1789)
aurea, Muraena Mowbray 1931 = Gymnothorax miliaris (Kaup 1856)
australiae, Muraena helena Richardson 1848 = Muraena helena Linnaeus 1758
australicol, Gymnothorax Lavenberg 1992 = Gymnothorax australicol Lavenberg 1992
austrinus, Gymnothorax Böhlke & McCosker 2001 = Gymnothorax australinus Böhlke & McCosker 2001
bacalladoi, Gymnothorax Böhlke & Brito 1987 = Gymnothorax bacalladoi Böhlke & Brito 1987
barbatula, Nettastomops Steindachner 1906 = Rhinomuraena quaesita Garman 1888
bathypilus, Gymnothorax Randall & McCosker 1975 = Gymnothorax bathypilus Randall & McCosker 1975
batuensis, Muraena Bleeker 1856 = Gymnothorax flavimarginatus (Rüppell 1830)
bauhchotae, Channomuraena Saldanha & Quéro 1994 = Channomuraena bauchotae Saldanha & Quéro 1994
bayeri, Gymnothorax Schultz 1953 = Enchelycore bayeri (Schultz 1953)
bennetti, Gymnomuraena Günther 1870 = Channomuraena vittata (Richardson 1845)
berndti, Gymnomuraena Snyder 1904 = Gymnomuraena berndti Snyder 1904
bettencourtii, Muraena Osório 1911 = Muraena augusti (Kaup 1856)
bikiniensis, Gymnothorax Schultz 1953 = Enchelycore bikiniensis (Schultz 1953)
bileanata, Muraena Rüppell 1838 = Gymnothorax griseus (Lacepède 1803)
bleekeri, Enchelynassa Kaup 1855 = Enchelynassa canina (Quoy & Gaimard 1824)
blochii, Muraena Bleeker 1853 = Gymnomuraena undulatus (Lacepède 1803)
borneensis, Gymnomuraena Bleeker 1863 = Gymnomuraena tile (Hamilton 1822)
boschii, Muraena Bleeker 1853 = Echidna nebulosa (Ahl 1789)
breedi, Gymnomuraena McCosker & Randall 1977 = Gymnomuraena breedi McCosker & Randall 1977
brevicauda, Gymnomuraena Regan 1903 = Scuticaria okinawae (Jordan & Snyder 1901)
brummeri, Muraena Bleeker 1858 = Pseudechidna brummeri (Bleeker 1858)
brunneus, Gymnomuraena Herre 1923 (Preoccupied) = Gymnomuraena herrei Beebe & Tee–Van 1933
brunneus, Gymnothorax Nichols 1920 = Enchelycore nigricans (Bonnaterre 1788)
bullata, Muraena Richardson 1848 = Gymnothorax fimbriatus (Bennett 1832)
buroensis, Muraena Bleeker 1857 = Gymnothorax buroensis (Bleeker 1857)
callorhynchna, Muraena Günther 1870 = Gymnothorax prasinus (Richardson 1848)
cancellata, Muraena Richardson 1848 = Gymnothorax undulatus (Lacepède 1803)
canina, Muraena Quoy & Gaimard 1824 = Enchelynessa canina (Quoy & Gaimard 1824)
cantonensis, Uropterygius Schultz 1943 = Anarchias cantonensis (Schultz 1943)
caramuru, Murenophis Castelnau 1855 = Gymnothorax moringa (Cuvier 1829)
carcinognathus, Gymnothorax Fowler 1912 = Gymnothorax vicinus (Castelnau 1855)
carychroa, Enchelycore Böhlke & Böhlke 1976 = Enchelycore carychroa Böhlke & Böhlke 1976
castanea, Sidera Jordan & Gilbert 1883 = Gymnothorax castaneus (Jordan & Gilbert 1883)
castlei, Gymnothorax Böhlke & Randall 1999 = Gymnothorax castlei Böhlke & Randall 1999
catenatus, Gymnothorax Bloch 1795 = Echidna catenata (Bloch 1795)
catenula, Muraenophis Lacepède 1803 = Echidna catenata (Bloch 1795)
cephalospiulus, Gymnothorax Böhlke & McCosker 2001 = Gymnothorax cephalospilus Böhlke & McCosker 2001
ceramensis, Muraena Bleeker 1852 = Gymnothorax richardsonii (Bleeker 1852)
cerinonigra, Muraena Richardson 1846 = Echidna nebulosa (Ahl 1789)
chalazius, Gymnothorax Waite 1904 = Gymnothorax eurostus (Abbott 1861)
chilenis, Muraena Günther 1872 = Gymnothorax porphyreus (Guichenot 1848)
chilospilus, Gymnothorax Bleeker 1864 = Gymnothorax chilospilus Bleeker 1864
chionostigma, Echidna Fowler 1912 = Echidna nocturna (Cope 1872)
chlamydatus, Gymnothorax Snyder 1908 = Gymnothorax chlamydatus Snyder 1908
chlevastes, Sidera Jordan & Gilbert 1883 = Gymnothorax rueppellii (McClelland 1844)
chlorostigma, Thyroidea Kaup 1856 = Gymnothorax meleagris (Shaw 1795)
chrysops, Muraena Kaup 1856 = Gymnothorax richardsonii (Bleeker 1852)
cinerascens, Muraena Rüppell 1830 = Gymnothorax hepaticus (Rüppell 1830)
clepsydra, Muraena Gilbert 1898 = Muraena clepsydra Gilbert 1898
cocos, Echidna Garman 1899 = Echidna nebulosa (Ahl 1789)
concolor, Thyroidea Abbott 1860 = Gymnothorax moringa (Cuvier 1829)
concolor, Uropterygius Rüppell 1838 = Uropterygius concolor Rüppell 1838
congeroides, Muraena Bleeker 1860 = Enchelycore schismatorhynchus (Bleeker 1853)
conspersus, Gymnothorax Poey 1867 = Gymnothorax conspersus Poey 1867
corallina, Muraena Klunzinger 1871 = Gymnothorax buroensis (Bleeker 1857)
cormura, Thyroidea Kaup 1859 = Gymnothorax vicinus (Castelnau 1855)
cribroris, Gymnothorax Whitley 1932 = Gymnothorax cribroris Whitley 1932
cristini, Muraenophis Risso 1810 = Gymnothorax unicolor (Delaroche 1809)
crudelis, Eurymyctera Kaup 1856 = Enchelycore schismatorhynchus (Bleeker 1853)
cubensis, Channomuraena Poey 1868 = Channomuraena vittata (Richardson 1845)
curvilineata, Murenophis Castelnau 1855 = Gymnothorax moringa (Cuvier 1829)
cyanopunctatus, Gymnothorax Howell Rivero 1932 = Gymnothorax vicinus (Castelnau 1855)
davisi, Rabula Fowler 1912 = Gymnothorax mordax (Ayres 1859)
delicatulus, Poecilophis Kaup 1856 = Echidna delicatula (Kaup 1856)
dentatus, Uropterygius Schultz 1953 = Uropterygius supraforatus (Regan 1909)
dentex, Gymnothorax de Buen 1961 = Gymnothorax eurostus (Abbott 1861)
detactus, Gymnothorax Bryan & Herre 1903: 126 = Gymnothorax chilospilus Bleeker, 1865
diopus, Uropterygius Böhlke 1967 = Uropterygius macularius (Lesueur 1825)
diplodon, Muraena Peters 1855 = Gymnothorax richardsonii (Bleeker 1852)
dizona, Muraena Bleeker 1861 = Echidna polyzona (Richardson 1845)
dola, Gymnomuraena Lacepède 1803 = Gymnomuraena zebra (Shaw 1797)
dorsalis, Gymnothorax Seale 1917 = Gymnothorax dorsalis Seale 1917
dovii, Muraena Günther 1870 = Gymnothorax dovii (Günther 1870)
edchida, Muraena Gmelin 1789 = Echidna nebulosa (Ahl 1789)
edchida, Gymnothorax Forster 1801 = Echidna nebulosa (Ahl 1789)
efatsis, Gymnothorax Herre 1935 = Echidna delicatula (Kaup 1856)
elaborata, Muraena Poey 1860 = Gymnothorax miliaris (Kaup 1856)
elegans, Gymnothorax Bliss 1883 = Gymnothorax elegans Bliss 1883
elegans, Gymnothorax Seale 1917 = Gymnothorax elegans Bliss 1883
elegantissima, Muraena Kaup 1856 = Gymnothorax pictus (Ahl 1789)
emmae, Gymnothorax Prokofiev 2010 = Gymnothorax emmae Prokofiev 2010
enigmaticus, Gymnothorax McCosker & Randall 1982 = Gymnothorax enigmaticus McCosker & Randall 1982
equatorialis, Priodonophis Hildebrand 1946 = Gymnothorax equatorialis (Hildebrand 1946)
ercodes, Gymnothorax Jenkins 1903 = Gymnothorax eurostus (Abbott 1861)
erebus, Muraena Poey 1861 = Gymnothorax vicinus (Castelnau 1855)
eritima, Rhinamuraena Jordan & Seale 1906 = Enchelycore schismatorhynchus (Bleeker 1853)
erythroetera, Muraena Solander 1848 = Gymnothorax pictus (Ahl 1879)
euetera, Muraena Günther 1870 = Gymnothorax nubilus (Richardson 1848)
eurosta, Thyrsoidae Abbott 1860 = Gymnothorax eurostus (Abbott 1860)
eurygnathos, Gymnothorax Böhlke 2001 = Gymnothorax eurygnathos Böhlke 2001
euryrhina, Enchelycore Kaup 1856 = Enchelycore nigricans (Bonnaterre 1788)
euryurus, Leptocephalus Lea 1913 = Anarchias longicauda (Peters, 1876)
exulatus, Anarchias Reece, Smith & Holm 2010 = Anarchias exulatus Reece, Smith & Holm 2010
fasciata, Gymnomuraena Kaup 1856 = Gymnomuraena zebra (Shaw 1797)
fascigula, Muraena Peters 1855 = Echidna polyzona (Richardson 1845)
fasciolata, Gymnomuraena Regan 1909 = Uropterygius fasciolatus (Regan 1909)
favagineus, Gymnothorax Bloch & Schneider 1801 = Gymnothorax favagineus Bloch & Schneider 1801
fijiensis, Uropterygius Fowler & Bean 1923 = Gymnothorax polyuranodon (Bleeker 1853)
fimbriata, Muraena Bennett 1832 = Gymnothorax fimbriatus (Bennett 1832)
flavimarginata, Muraena Rüppell 1830 = Gymnothorax flavimarginatus (Rüppell 1830)
flavimarginata, Muraena Kaup 1856 (Preoccupied) = Gymnothorax elegans Bliss 1883
flavocula, Siderea Böhlke & Randall 1996 = Gymnothorax flavoculus (Böhlke & Randall 1996)
flavofasciata, Echidna Poey 1867 = Echidna catenata (Bloch 1795)
flavopicta, Thysoridea Kaup 1856 = Gymnothorax miliaris (Kaup 1856)
flavopicta, Thysoridea Poey 1867 = Echidna nebulosa (Ahl 1789)
flavoscriptus, Gymnothorax Poey 1876 = Gymnothorax miliaris (Cuvier 1829)
florisiana, Muraena Bleeker 1854 = Gymnothorax richardsonii (Bleeker 1852)
formosa, Cirrimaxilla Chen & Shao 1995 = Channomuraena bauchotae Saldanha & Quero 1994
formosus, Gymnothorax Bleeker 1864 = Gymnothorax formosus (Bleeker 1864)
forssstromi, Leptocephalus Strömman 1896 = Gymnothorax vicinus (Castelnau 1855)
forsteri, Echidna Walbaum 1792 = Echidna nebulosa (Ahl 1789)
fuliginosus, Leptocephalus Strömman 1896 = Gymnothorax formosus Bleeker 1864
fulva, Muraenophis Risso 1810 = Muraena helena Linnaeus 1758
funebris, Gymnothorax Ranzani 1839 = Gymnothorax funebris Ranzani 1839
fusca, Gymnomuraena Peters 1866 = Uropterygius concolor Rüppell 1838
fuscomaculata, Gymnomuraena Regan 1903 = Muraena robusta Osório 1911
geometrica, Muraena Rüppell 1830 = Gymnothorax griseus (Lacepède 1803)
gilberti, Gymnophis Tanaka 1908 = Gymnophis eurostus (Abbott 1861)
golanii, Uropterygius McCosker & Smith 1997 = Uropterygius golanii McCosker & Smith 1997
grandimaculis, Muraena Regan 1903 = Gymnophis miliaris (Kaup 1856)
gracilis, Uropterygius Roule 1916 = Anarchias longicauda (Peters, 1876)
gracilis, Muraena Richardson 1848 = Gymnophis tile (Hamilton 1822)
gracea, Muraenophis Lacepède 1803 = Gymnophis graceus (Lacepède 1803)
grassi, Uropterygius Roule 1916 = Anarchias longicauda (Peters, 1876)
grassi, Muraenophis Lacepède 1803 = Gymnophis miliaris (Kaup 1856)
guttata, Muraena Regan 1903 = Gymnophis miliaris (Kaup 1856)
guttata, Muraena Risso 1827 (Preoccupied) = Muraena helena Linnaeus 1758

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**CHECKLIST OF MORAY EELS**

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**guttata**, *Muraena* Solander and Richardson, 1848 (Preoccupied) = *Muraena augusti* (Kaup, 1856)

**hansi**, *Gymnothorax* Heemstra, 2004 = *Gymnothorax hansi* Heemstra 2004

**helena**, *Muraena* Linnaeus 1758 = *Muraena helena* Linnaeus 1758

**hemprichii**, *Muraena* Klunzinger 1871 = *Enchelycore schismatorhynchus* (Bleeker 1853)

**hepatica**, *Muraena* Rüppell 1830 = *Muraena hepatica* Rüppell 1830

**herseri**, *Gymnothorax* Beebe & Tee-Van 1933 = *Gymnothorax herseri* Beebe & Tee-Van 1933

**hilonis**, *Gymnothorax* Jordan & Evermann 1903 = *Gymnothorax pictus* Ahl 1789

**hubbsi**, *Gymnothorax* Böhlke & Böhlke 1977 = *Gymnothorax hubbsi* Böhlke & Böhlke 1977

**indong**, *Gymnothorax* Seale 1910 = *Gymnothorax zonipectis* Seale 1906

**infernalis**, *Muraena* Poey 1861 = *Gymnothorax funebris* Ranzani 1839

**inornatus**, *Uropterygius* Gosline 1958 = *Uropterygius inornatus* Gosline 1958

**insignis**, *Gymnothorax* Seale 1917 = *Gymnothorax nudivomer* Günter 1867

**insularum**, *Muraena* Jordan & Davis 1891 = *Muraena lentiginosa* Jenyns 1842

**interrupta**, *Muraena* Kaup 1856 = *Gymnothorax rueppellii* McClelland 1844

**intesi**, *Lycodontis* Fourmanoir & Rivaton 1979 = *Gymnothorax intesi* (Fourmanoir & Rivaton 1979)

**irregularis**, *Thyrsoidea* Kaup 1856 = *Gymnothorax miliaris* (Kaup 1856)

**isingleenoides**, *Muraena* Bleeker 1853 = *Gymnothorax fimbriatus* Bennett 1832

**isingteena**, *Muraena* Richardson 1845 = *Gymnothorax isingteena* Richardson 1845

**jacksoniensis**, *Gymnothorax* Bleeker 1863 = *Gymnothorax prasinus* Richardson 1848

**januarius**, *Gymnothorax ocellatus* Jordan & Davis 1891 = *Gymnothorax ocellatus* Agassiz 1831

**javanica**, *Muraena* Bleeker 1859 = *Gymnothorax javanicus* Bleeker 1859

**johnsoni**, *Lycodontis* Smith 1962 = *Gymnothorax johnsoni* (Smith 1962)

**jordani**, *Lycodontis* Evermann & Marsh 1899 = *Gymnothorax ocellatus* Agassiz 1831

**juliae**, *Leptocephalus* Tommasi 1960 = *Uropterygius macularius* Lesueur 1825

**kailuae**, *Muraena* Jordan & Evermann 1903 = *Enchelycore pardalis* Temminck & Schlegel 1846


**kaula**, *Muraena* Jenkins 1903 = *Enchelycore pardalis* Temminck & Schlegel 1846

**kaupii**, *Thyrsoidea* Abbott 1860 = *Gymnothorax undulatus* Lacepède 1803

**kidako**, *Muraena* Temminck & Schlegel 1846 = *Gymnothorax kidako* Temminck & Schlegel, 1846

**kishinouyei**, *Echidna* Jordan & Snyder 1901 = *Gymnothorax thyrsodeus* Richardson 1845

**knighti**, *Anarchias* Jordan & Starks 1906 = *Uropterygius macrocephalus* Bleeker 1864

**kolpos**, *Gymnothorax* Böhlke & Böhlke 1980 = *Gymnothorax kolpos* Böhlke & Böhlke 1980

**kontodontos**, *Gymnothorax* Böhlke 2000 = *Gymnothorax kontodontos* Böhlke 2000

**kowanensis**, *Gymnothorax pictus* Aoyagi 1943 = *Gymnothorax pictus* Ahl 1789

**kralli**, *Muraena* Hector 1877 = *Gymnothorax prasinus* Richardson 1848

**kuhlri**, *Polyuranodon* Kaup 1856 = *Gymnothorax polyuranodon* Bleeker 1853

**lampra**, *Muraena* Jenkins 1903 = *Enchelycore pardalis* Temminck & Schlegel 1846
laysana, Muraena Steindacher 1900 = Gymnothorax eurostus (Abbott 1861)
lecomtei, Poecilophis Kaup 1856 = Echidna peli (Kaup 1856)
leecote, Gymnothorax Scott 1965 = Gymnothorax prasinus (Richardson 1848)
leiha, Echidna Jenkins 1903 = Echidna polyzona (Richardson 1845)
lemayi, Lycoodontis Smith 1949 = Gymnothorax flavimarginatus (Rüppell 1830)
lentiginosa, Muraena Jenyns 1842 = Muraena lentiginosa Jenyns 1842
leucacme, Gymnothorax Jenkins 1903 = Gymnothorax rueppellii (McClelland 1844)
leucostictus, Gymnothorax Jenkins 1903 = Gymnothorax meleagris (Shaw 1785)
leucotenia, Echidna Schulte 1943 = Echidna leucotaenia Schultz 1943
leucurus, Uropterygius Snyder 1904 = Anarchias leucurus (Snyder 1904)
lichenosa, Aemasia Jordan & Snyder 1901 = Enchelycore lichenosa (Jordan & Snyder 1901)
lineopinnis, Muraena Richardson 1848 = Gymnothorax funebris Ranzani 1839
lita, Muraena Richardson 1848 = Gymnothorax pictus (Ahl 1789)
literata, Lycoodontis McClelland 1844 = Gymnothorax tile (Hamilton 1822)
longicauda, Muraena Peters 1877 = Anarchias longicauda (Peters 1877)
longicaudata, Lycoodontis McClelland 1844 = Strophidon satete (Hamilton 1822)
longinquus, Lycoodontis Whitley 1948 = Gymnothorax longinquus (Whitley 1948)
longissima, Thyrsiidea Kaup 1856 = Strophidon satete (Hamilton 1822)
macrocephalus, Gymnomuraena Bleeker 1864 = Uropterygius macrocephalus (Bleeker 1864)
maccrurus, Muraena Bleeker 1854 = Strophidon satete (Hamilton 1822)
maculatus, Muraenopsis Lesueur 1825 = Uropterygius macularius (Lesueur 1825)
maculata, Strophidon McClelland 1844 = Gymnothorax tile (Hamilton 1822)
maculipinnis, Thyrsiidea Kaup 1856 = Gymnothorax afer Bloch 1795
maderensis, Pseudomuraena Johnson 1862 = Gymnothorax maderensis (Johnson 1862)
makassariensis, Gymnothorax Bleeker 1863 = Gymnothorax pseudiothysideus (Bleeker 1852)
makatei, Uropterygius Gosline 1958 = Uropterygius macrocephalus (Bleeker 1864)
maldiviensis, Anarchias Klausewitz 1964 = Anarchias allardicei Jordan and Starks, 1906
mareei, Gymnothorax Poll 1953 = Gymnothorax mareei Poll 1953
margaritophorus, Gymnothorax Bleeker 1864 = Gymnothorax margaritophorus Bleeker 1864
marginata, Thyrsiidea Kaup 1859 = Gymnothorax afer Bloch 1795
marmorata, Gymnomuraena Lacepède 1803 = Uropterygius marmoratus (Lacepède 1803)
marmoreus, Murenophis Valenciennes 1846 = Muraena lentiginosa Jenyns 1842
marquesensis, Gymnothorax Seale 1906 = Gymnothorax burensis (Bleeker 1857)
marsallensis, Rabula Schultz 1953 = Gymnothorax marshallensis (Schultz 1953)
mauritiana, Muraena Kaup 1856 = Gymnothorax flavimarginatus (Rüppell 1830)
megapterus, Gymnothorax Weber 1913 = Pseudochidna brummeri (Bleeker 1858)
megaspilus, Gymnothorax Böhle & Randall 1995 = Gymnothorax megaspilus Böhle & Randall 1995
melanosomatus, Gymnothorax Loh, Shao & Chen 2011 = Gymnothorax melanosomatus Loh, Shao & Chen 2011
melanospilos, Muraena Bleeker 1855 = Gymnothorax isingteena (Richardson 1845)
melanotis, Limamuraena Kaup 1859 = Muraena melanotis (Kaup 1859)
meletremus, Gymnothorax Schultz 1953 = Gymnothorax melatremus Schultz 1953
meleagris, Muraena Shaw 1795 = Gymnothorax meleagris (Shaw 1795)
microdon, Thysioidea Kaup 1856 = Gymnothorax tile (Hamilton 1822)
micropterus, Muraena Bleeker 1852 = Uropterygius micropterus (Bleeker 1852)
microspila, Muraena Günther 1870 = Gymnothorax reevesii (Richardson 1845)
microstictus, Gymnothorax Böhle 2000 = Gymnothorax microstictus Böhle 2000
mieroszewskii, Muraena Steindachner 1896 = Gymnothorax prionodon Ogilby 1895
miliaris, Thysioidea Kaup 1856 = Gymnothorax miliaris (Kaup 1856)
mindanoensis, Gymnothorax Borodin 1930 = Gymnothorax javanicus (Bleeker 1859)
minor, Muraena Temminck & Schlegel 1846 = Gymnothorax minor (Temminck & Schlegel 1846)
moodesta, Muraena Kaup 1859 = Gymnothorax richardsonii (Bleeker 1852)
moluccensis, Priodonophis Bleeker 1864 = Gymnothorax moluccensis (Bleeker 1864)
monochrous, Muraena Bleeker 1856 = Gymnothorax monochrous (Bleeker 1856)
monostigma, Muraena Regan 1909 = Gymnothorax monostigma (Regan 1909)
mordax, Muraena Ayres 1859 = Gymnothorax mordax (Ayres 1859)
morninga, Muraena Cuvier 1829 = Gymnothorax morninga (Cuvier 1829)
mosaica, Fimbrinares Whitley 1948 = Enchelycore ramosus (Griffin 1926)
mucifer, Gymnothorax Snyder 1904 = Gymnothorax kidako (Temminck & Schlegel 1846)
multifasciata, Thysioidea Kaup 1856 = Gymnothorax richardsonii (Bleeker 1852)
multiocellata, Muraena Poey 1860 = Gymnothorax miliaris (Kaup 1856)
muraena, Gymnothorax Bloch & Schneider 1801 = Muraena helena Linnaeus 1758
myrialeucostictus, Muraena Fowler 1912 = Gymnothorax miliaris (Kaup 1856)
nagoensis, Uropterygius Hatooka 1984 = Uropterygius nagoensis Hatooka 1984
nasuta, Gymnothorax de Buen 1961 = Gymnothorax nasuta de Buen 1961
nebulosa, Muraena Ahl 1789 = Echidna nebulosa (Ahl 1789)
nectuta, Gymnomuraena Jordan & Gilbert 1882 = Uropterygius macrocephalus (Bleeker 1864)
neglectus, Gymnothorax Tanaka 1911 = Gymnothorax neglectus Tanaka 1911
nevezi, Gymnothorax Roux 1957 = Muraena robusta Osório 1911
nigricans, Muraena Bonnatetre 1788 = Enchelycore nigricans (Bonnaterre 1788)
nigrocastaneus, Gymnothorax Cope 1871 = Enchelycore nigricans (Bonnaterre 1788)
nigrolineata, Muraena Kaup 1856 = Gymnothorax ruepellii (McClelland 1844)
nigromarginata, Neomuraena Girard 1858 = Gymnothorax nigromarginatus (Girard 1858)
niphostigmus, Gymnothorax Chen, Shao & Chen 1996 = Gymnothorax niphostigmus Chen, Shao & Chen 1996
nirosus, Gymnothorax Tanaka 1918 = Gymnothorax prionodon Ogilby 1895
nocturnus, Poecilophis Cope 1872 = Echidna nocturna (Cope 1872)
nubila, Muraena Richardson 1848 = Gymnothorax nubilus (Richardson 1848)
nudivomer, Muraena Günther 1867 = Gymnothorax nudivomer (Günther 1867)
nuttingi, Gymnothorax Snyder 1904 = Gymnothorax nuttingi Snyder 1904
nycturanus, Enchelycore Smith 2002 = Enchelycore nycturanus Smith 2002
obesus, Uropterygius Whitely 1932 = Gymnothorax obesus (Whitely 1932)
obscurea, Echidna Jenkins 1903 = Echidna polyzona (Richardson 1845)
obscursatus, Gymnothorax Poey 1870 = Gymnothorax vicinus (Castelnau 1855)
obscuroirostris, Gymnothorax Rendahl 1921 = Gymnothorax porphyreus (Guichenot 1848)
occellatus, Gymnothorax Agassiz 1831 = Gymnothorax ocellatus Agassiz 1831
octavianus, Gymnothorax Myers & Wade 1941 = Enchelycore octaviana (Myers & Wade 1941)
odiosus, Gymnothorax Snyder 1908 = Gymnothorax philippinus Jordan & Seale 1907
okinawae, Uropterygius Jordan & Snyder 1901 = Scuticaria okinawae (Jordan & Snyder 1901)
ophis, Muraena Rüppell 1830 (Preoccupied) = Echidna nebulosa (Ahl 1789)
ornata, Poecilophis Kaup 1859 = Echidna xanthospilos (Bleeker 1859)
panamensis, Muraena Steindachner 1876 = Gymnothorax panamensis (Steindachner 1876)
pantherina, Muraenophis Lacepède 1803 = Gymnothorax pictus (Ahl 1879)
pardalis, Muraena Temminck & Schlegel 1846 = Enchelycore pardalis (Temminck & Schlegel 1846)
parvibranchialis, Lycodontis Fowler 1900 = Gymnothorax eurostus (Abbott 1861)
panamensis, Muraena Richardson 1845 = Muraena pavonina Richardson 1845
pelonates, Diaphenchelys McCosker & Randall 2007 = Diaphenchelys pelonates McCosker & Randall 2007
permistus, Lycodontis Smith 1962 = Gymnothorax favagineus Bloch & Schneider 1801
perustus, Lycodontis Smith 1962 = Gymnothorax chilospilus Bleeker 1864
pescadoris, Gymnothorax Jordan & Evermann 1902 = Gymnothorax isingteena (Richardson 1845)
petelli, Muraena Bleeker 1856 = Gymnothorax rueppellii (McClelland 1844)
pfeifferi, Muraena Bleeker 1853 = Gymnothorax pictus (Ahl 1789)
phasmatodes, Lycodontis Smith 1962 = Gymnothorax phasmatodes (Smith 1962)
philippinus, Gymnothorax Jordan & Seale 1907 = Gymnothorax philippinus Jordan & Seale 1907
picta, Muraena Ahl 1789 = Gymnothorax pictus (Ahl 1789)
picturatus, Gymnothorax Poey 1880 = Gymnothorax moringa (Cuvier 1829)
pikei, Gymnothorax Bliss 1883 = Gymnothorax pikei Bliss 1883
pikei, Gymnothorax Seale 1917 = Gymnothorax pikei Bliss 1883
pikei, Poecilophis Bliss 1883 = Echidna polyzona (Richardson 1845)
pindae, Gymnothorax Smith 1962 = Gymnothorax pindae Smith 1962
pinta, Muraena Jordan & Gilbert 1882 = Muraena lentiginosa Jenyns 1842
polygonius, Gymnothorax Poey 1875 = Gymnothorax polygonius Poey 1875
polyodon, Strophidon Bleeker 1864 = Pseudechidna brummeri (Bleeker 1858)
polyophthalmus, Muraena Bleeker 1858 = Gymnothorax pictus (Ahl 1789)
polyspila, Gymnomuraena Regan 1909 = Uropterygius polyspilus (Regan 1909)
polystictus, Uropterygius Myers & Wade 1941 = Uropterygius polystictus Myers & Wade 1941
polyuranodon, Muraena Bleeker 1853 = Gymnothorax polyuranodon (Bleeker 1853)
polyzona, Muraena Richardson 1845 = Echidna polyzona (Richardson 1845)
porphyreus, Murenophis Guichenot 1848 = Gymnothorax porphyreus (Guichenot 1848)
prasina, Muraena Richardson 1848 = Gymnothorax prasinus (Richardson 1848)
prionodon, Gymnothorax Ogilby 1895 = Gymnothorax prionodon Ogilby 1895
prismodon, Gymnothorax Böhlke & Randall 2000 = Gymnothorax prismodon Böhlke & Randall 2000
prosopion, Muraena Bleeker 1853 = Gymnothorax thyrsioideus (Richardson 1845)
psalio, Echidna Jenkins 1903 = Echidna polyzona (Richardson 1845)
pseudoherrei, Gymnothorax Böhlke 2000 = Gymnothorax pseudoherrei Böhlke 2000
pseudothyrsioidea, Muraena Bleeker 1852 = Gymnothorax pseudothyrsioidea (Bleeker 1852)
punctata, Muraena Rafinesque 1810 = Muraena helena Linnaeus 1758
punctata, Muraena Gronow 1854 (Preoccupied) = Gymnothorax morsinga (Cuvier 1829)
punctata, Strophidon McClelland 1844 = Muraenophis tile Hamilton 1822
punctata, Murenophis Castelnau 1855 (Preoccupied) = Muraena retifera Goode & Bean 1882
punctatofasciatus, Gymnothorax Bleeker 1863 = Gymnothorax punctatofasciatus Bleeker 1863
punctatus, Gymnothorax Bloch & Schneider 1801 = Gymnothorax punctatus Bloch & Schneider 1801
python, Muraena Kaup 1856 = Gymnothorax favagineus Bloch & Schneider 1801
quaesita, Rhinomuraena Garman 1888 = Rhinomuraena quaesita Garman 1888
ramosus, Gymnothorax Griffin 1926 = Enchelycore ramosa (Griffin 1926)
randalli, Gymnothorax Smith & Böhlke 1997 = Gymnothorax randalli Smith & Böhlke 1997
reevesii, Muraena Richardson 1845 = Gymnothorax reevesii (Richardson 1845)
reidi, Uropterygius Schultz 1943 = Uropterygius macrocephalus (Bleeker 1864)
reticularis, Gymnothorax Bloch 1795 = Gymnothorax reticularis Bloch 1795
reticulata, Thaerodontis McClelland 1844 = Gymnothorax favagineus Bloch & Schneider 1801
reticulatus, Anarchias Herre 1923 = Uropterygius micropterus (Bleeker 1852)
retifera, Muraena Goode & Bean 1882 = Muraena retifera Goode & Bean 1882
rhodocephalus, Gymnothorax Bleeker 1864 = Gymnothorax formosus Bleeker 1864
rhodochilus, Echidna Bleeker 1863 = Echidna rhodochilus Bleeker 1863
richardsonii, Muraena Bleeker 1852 = Gymnotherax richardsonii (Bleeker 1852)
robinsi, Gymnotherax Böhlke 1997 = Gymnotherax robinsi Böhlke 1997
robusta, Muraena Osório 1911 = Muraena robusta Osório 1911
romana, Muraena Shaw 1803 = Muraena helena Linnaeus 1758
rosalae, Ahynnodontophis Howell Rivero 1932 = Gymnotherax maderensis (Johnson 1862)
rostratus, Gymnotherax Agassiz 1831 = Gymnotherax moringa (Cuvier 1829)
rotchii, Rabula Clark 1936 = Echidna nocturna (Cope 1872)
rueppelliae, Dalophis McClelland 1844 = Gymnotherax rueppellii (McClelland 1844)
rykuensis, Gymnotherax Hatooka 2003 = Gymnotherax rykuensis Hatooka 2003
sagmacephalus, Gymnotherax Böhlke 1997 = Gymnotherax sagmacephalus Böhlke 1997
samalensis, Gymnotherax Seale 1910 = Gymnotherax chilospilus Bleeker 1864
sanctaehelenae, Muraena Günther 1870 = ?Enchelycore anatina (Lowe 1838)
sathete, Muraenophis Hamilton 1822 = Strophidon sathete (Hamilton 1822)
sauvagei, Echidna Fowler 1912 = Echidna polyzona (Richardson 1845)
saxicola, Gymnotherax ocellatus Jordan & Davis 1891 = Gymnotherax saxicola Jordan & Davis 1891
scabra, Echidna Garman 1899 = Echidna nocturna (Cope 1872)
schismatorhynchus, Muraena Bleeker 1853 = Enchelycore schismatorhynchus (Bleeker 1853)
schonlandi, Siderea Smith 1949 = Gymnotherax griseus (Lacepède 1803)
schultzi, Anarchias Reece, Smith & Holm 2010 = Anarchias schultzi Reece, Smith & Holm 2010
scoliodon, Muraena Bleeker 1852 = Gymnotherax richardsonii (Bleeker 1852)
scriptus, Gymnotherax Poey 1867 (Preoccupied). = Gymnotherax miliaris (Kaup 1856)
sealei, Uropterygius Whitley 1932 = Scuticaria okinawae (Jordan & Snyder 1901)
serratidens, Priodonophis Hildebrand & Barton 1949 = Gymnotherax serratidens (Hildebrand & Barton 1949)
sychellensis, Anarchias Smith 1962 = Anarchias sychellensis Smith 1962
shaoi, Gymnotherax Chen & Loh 2007 = Gymnotherax shaoi Chen & Loh 2007
shirleyi, Muraena Griffin 1933 = Gymnotherax prionodon Ogilby 1895
siderea, Muraena Richardson 1848 = Gymnotherax pictus (Ahl 1789)
signifer, Gymnotherax Bliss 1883 = Gymnotherax rueppellii (McClelland 1844)
similis, Muraena Richardson 1848 = Gymnotherax kidako (Temminck & Schlegel 1846)
similis, Leptocephalus Lea 1913 = Anarchias similis (Lea 1913)
sokotrensis, Gymnotherax Kotthaus 1968 = Gymnotherax sokotrensis Kotthaus 1968
sordida, Muraena Cuvier 1816 = Echidna catenata (Bloch 1795)
steindachneri, Gymnotherax Jordan & Evermann 1903 = Gymnotherax steindachneri Jordan & Evermann 1903
stigmanotus, Gymnotherax Fowler 1912 = Gymnotherax castaneus (Jordan & Gilbert 1882)
strommani, Leptocephalus Eigenmann & Kennedy 1902 = Gymnotherax moringa (Cuvier 1829)
supraforata, Gymnomuraena Regan 1909 = Uropterygius supraforatus (Regan 1909)
supremus, Anarchias McCosker & Stewart 2006 = Anarchias supremus McCosker & Stewart 2006
taenioides, Muraena Günther 1872 = Pseudoechidna brummeri (Bleeker 1858)
tahitensis, Gymnothorax Seale 1906 = Gymnothorax buroensis (Bleeker 1857)
taiwanensis, Gymnothorax Chen, Loh & Shao 2008 = Gymnothorax taiwanensis Chen, Loh & Shao 2008
talofa, Gymnothorax Jordan & Starks 1906 = Gymnothorax margaritophorus Bleeker 1864
tamarae, Enchelycore Prokofiev 2005 = Gymnothorax fimbriatus Bennett 1832.
tessellata, Muraena Richardson 1845 = Gymnothorax favagineus Bloch & Schneider 1801
thalassopterus, Gymnothorax Jenkins 1903 = Gymnothorax flavimarginatus (Rüppell 1830)
thomsoni, Gymnothorax Borodin 1928 = Gymnothorax pictus (Ahl 1789)
thyroidea, Muraena Richardson 1845 = Gymnothorax thyroidea (Richardson 1845)
tigrinus, Ichthyophis Lesson 1828 = Scuticaria tigrina (Lesson 1828)
tile, Muraenophis Hamilton 1822 = Gymnothorax tile (Hamilton 1822)
tinkhami, Uropterygius Fowler 1945 = Uropterygius micropterus (Bleeker 1852)
tristis, Muraena Kaup 1856 = Gymnothorax afer Bloch 1795
tritor, Poecilophis Vaillant & Sauvage 1875 = Echidna polyzona (Richardson 1845)
trosseli, Muraena Bleeker 1853 = Gymnothorax richardsonii (Bleeker 1852)
trossula, Echidna Jordan & Starks 1906 = Echidna delicatula (Kaup 1856)
tuhua, Muraena Griffin 1933 = Gymnothorax obesus (Whitley 1932)
ui, Strophidon Tanaka 1918 = Strophidon satheke (Hamilton 1822)
umbra, Lycodontis Fowler 1944 = Gymnothorax panamensis (Steindachner 1876)
umbrofasciata, Muraena Rüppell 1852 = Gymnothorax rueppelli (McClelland 1845)
umbrosus, Gymnothorax Poey 1875 = Enchelycore nigricans (Bonnaterre 1788)
undulata, Muraenophis Lacepède 1803 = Gymnothorax undulatus (Lacepède 1803)
unicolor, Echidna Schultz 1953 = Echidna unicolor Schultz 1953
unicolor, Muraenophis Delaroche 1809 = Gymnothorax unicolor (Delaroche 1809)
unicolor, Scuticaria Seale 1917 = Scuticaria okinawae (Jordan & Snyder 1901)
vagrans, Muraena Seale 1917 = Gymnothorax vagrans (Seale 1917)
valenciennii, Muraena Eydoux & Souleyet 1850 = Gymnothorax undulatus (Lacepède 1803)
variegata, Muraena Rafinesque 1810 = Muraena helena Linnaeus 1758
variegata, Muraena Quoy & Gaimard 1824 (Preoccupied) = Gymnothorax pictus (Ahl 1789)
variegata, Muraena Richardson 1848 (Preoccupied) = Echidna nebulosa (Ahl 1789)
variegata, Murenophis Castelnau 1855 (Secondarily preoccupied) = Gymnothorax ocellatus Agassiz 1831
venosa, Muraena Kaup 1856 = Gymnothorax richardsonii (Bleeker 1852)
vermicularis, Muraena Peters 1855 = Gymnothorax richardsonii (Bleeker 1852)
vermiculata, Muraena Richardson 1848 = Gymnothorax tile (Hamilton 1822)
vermiformis, Anarchias Smith 1962 = Uropterygius concolor Rüppell 1838
verrilli, Sidera Jordan & Gilbert 1883 = Gymnothorax verrilli (Jordan & Gilbert 1883)
versipunctatus, Gymnothorax Poey 1876 = Gymnothorax vicinus (Castelnau 1855)
versutus, Uropterygius Bussing 1991 = Uropterygius versutus Bussing 1991
vicina, *Murenophis* Castelnau 1855 = *Gymnothorax vicinus* (Castelnau 1855)
vincata, *Echidna* Jenkins 1903 = *Echidna polyzona* (Richardson 1845)
vinolentus, *Gymnothorax* Jordan & Evermann 1903 = *Enchelynassa canina* (Quoy & Gaimard 1824)
virescens, *Gymnothorax* Poey 1876 = *Gymnothorax vicinus* (Castelnau 1855)
viridipinna, *Muraena* Seale 1917 = *Gymnothorax flavimarginatus* (Rüppell 1830)
viridipinnis, *Gymnothorax* Bliss 1883 = *Gymnothorax flavimarginatus* (Rüppell 1830)
vittatus, *Ichthyophis* Richardson 1845 = *Channomuraena vittata* (Richardson 1845)
vorax, *Muraena* Ogilby 1907 = *Muraena helena* Linnaeus 1758
waialuae, *Gymnothorax* Snyder 1904 = *Gymnothorax rueppellii* (McClelland 1844)
wakanourae, *Gymnothorax* Tanaka 1908 = *Gymnothorax eurostus* (Abbott 1861)
walvisensis, *Gymnothorax* Prokofiev & Kukuev 2009 = *Gymnothorax walvisensis* Prokofiev & Kukuev 2009
westphali, *Taeniophis* Kaup 1859 = *Gymnothorax funebris* Ranzani 1839
wheeleri, *Uropterygius* Blache 1967 = *Uropterygius wheeleri* Blache 1967
wieneri, *Gymnothorax* Sauvage 1883 = *Gymnothorax porphyreus* (Guichenot 1848)
woodwardi, *Gymnothorax* McCulloch 1912 = *Gymnothorax woodwardi* McCulloch 1912
wooliensis, *Lycodontis* Whitley 1968 = *Gymnothorax prionodon* Ogilby 1895
xanthopterus, *Uropterygius* Bleeker 1859 = *Uropterygius xanthopterus* Bleeker 1859
xanthospilus, *Muraena* Bleeker 1859 = *Echidna xanthospilus* (Bleeker 1859)
xanthospilus, *Lycodontis* Fowler 1944 = *Muraena lentiginosa* Jenyns 1842
xanthostomus, *Gymnothorax* Snyder 1904 = *Gymnothorax nudivomer* (Günther 1867)
yoshiae, *Anarchias* Kanazawa 1952 = *Anarchias similis* (Lea 1913)
zebra, *Gymnothorax* Shaw 1797 = *Gymnomuraena zebra* (Shaw 1797)
zebra, *Muraenophis* Lesueur 1825 = *Echidna catenata* (Bloch 1795)
zonata, *Echidna* Fowler 1900 = *Echidna polyzona* (Richardson 1845)
zonipectis, *Gymnothorax* Seale 1906 = *Gymnothorax zonipectis* Seale 1906
zonophaea, *Echidna* Jordan & Evermann 1903 = *Echidna polyzona* (Richardson 1845)

**INCERTAE SEDIS SPECIES NAMES**

For one reason or another, the following cannot be assigned to a known species. Detailed explanations for many of them can be found in Böhlke and Smith (2002).

**accipiter**, *Leptocephalus* Fowler 1938: 20, pl. 5 (figs. 1–2). Based on a larva.


**appendiculata**, *Murenophis* Guichenot 1848: 341. Based on an unfinished drawing, now lost.


**colubrina**, *Muraenophis* Lacepède 1803: 627, 641, pl. 19 (fig. 1). No types known, not identifiable from description.
dakini, Gymnothorax  Whitley & Colefax 1938: 285, pl. 14 (fig. 2). Holotype lost, not identifiable from description.

dinocephala, Muraena  Metzelaar 1919: 211, fig. 58–58a. Type unknown, not identifiable from description.

duivenbodei, Muraena  Bleeker 1856a: 385. Holotype (BMNH 1867.11.28.275) faded and damaged, not identifiable.

dumerili, Thyrsoidea  Kaup 1856a: 62. Status uncertain, possibly intended as a new name for Muraena guttata Solander & Richardson 1848, but the treatment was not clear. Could be considered a nomen oblitum in the synonymy of Muraena augusti (Kaup 1856).

dussumieri, Leptocephalus  Kaup 1856b: 151, pl. 19 (fig. 17). Based on a larva.

edentata, Leptocephalus  Shen 1963: 265, figs. 9–12. Based on a larva.

erthyraeus, Leptocephalus  D'Ancona 1928: 87, pl. 4 (figs. 17–17a). Based on a larva.

feyhonnieni, Gymnothorax  Chen 1929: 38, pl. 3. Holotype missing, not identifiable from description.

flaveola, Muraenophis  Lesson 1831: 128, Poissons pl. 11 (fig. 2). Holotype missing, not identifiable from description.

garsiae, Gymnothorax  Whitley & Colefax 1938: 286, pl. 14 (fig. 3). Holotype missing, not identifiable from description.

gillii, Leptocephalus  Eigenmann & Kennedy 1902: 88, figs. 7, 7a–b. Based on a larva.

grassianus, Leptocephalus  D'Ancona 1928: 70, pl. 4 (figs. 8–8a). Based on a larva.

griseobadia, Muraena  Richardson 1848: 89. Holotype missing, not identifiable from description.

hauy, Muraenophis  Lacepède 1803: 629, 646, pl. 17 (fig. 2). No types known, not identifiable from description.

insuetus, Anarchias  Whitley 1932a: 272, fig. 1. Holotype (AMS IA.4458) small and faded; a species of Uropterygius, not further identifiable.

intermedia, Muraena tessellata  Günther 1870: 107. No types known, not identifiable from description.

latus, Leptocephalus  Eigenmann & Kennedy 1902: 87, figs. 6, 6a–b. Based on a larva.

lineata, Muraenophis  Lesson 1831: 127, Poissons pl. 11 (fig. 1). No types known, not identifiable from description.

macrops, Thyrsoidea  Kaup 1856b: 74. Not identifiable.

macropsophon, Gymnothorax  Bleeker 1872: 154. No types known, not identifiable from description.

maculaepinnis, Gymnothorax  Bleeker in Steindachner 1866: 473. No types known, not identifiable from description.

marmorata, Muraena  Quoy & Gaimard 1824: 247. No types known, not identifiable from description.

marmoratus, Muraenophis  Guichenot 1848: 342. No types known, not identifiable from description.

micropoeicilus, Muraena  Bleeker 1855b: 459. Holotype (BMNH 1867.11.28.320) in poor condition, not identifiable.

mulleri, Muraena  Kaup 1856b: 69, pl. 11 (fig. 54). Holotype missing, not identifiable from description.

muraenoides, Leptocephalus  D'Ancona 1928: 79, pl. 4 (figs. 12–12a). Based on a larva.

net, Muraena  Montrouzier 1857: 488 [210]. No types known, not identifiable from description.

nigra, Muraena  Day 1871: 70 (Preoccupied by Muraena nigra Risso, 1810 [Congridae]). A species of Echidna, not further identifiable.

pantherinus, Ichthyophis  Lesson 1831: 131, Poissons pl. 13. Holotype missing, not identifiable from description.

pintita, Muraena  Jordan & Gilbert 1882a: 346. Holotype lost, not conclusively identifiable from description.
puhipape, Muraena Curtiss 1938: 34. No types known, not identifiable from description.
punctareanae, Gymnothorax Fowler 1917: 3. Holotype lost, not identifiable from description.
sagenodeta, Muraena Richardson 1848: 81. Holotype (BMNH.2008.4.9.1) stuffed and damaged, not identifiable.
scriptus, Gymnothorax Bloch & Schneider 1801: 529. No types known, not identifiable from description.
stellata, Muraenophilis Lacepède 1803: 629, 642. Holotype missing, not identifiable from description.
stellifer, Muraena Richardson 1848: 86. Holotype (BMNH 2012.2.15.2) in poor condition, not identifiable.
subfuscus, Leptocephalus Fowler 1944: 389, fig. 52. Based on a larva.
teatae, Muraena Curtiss 1938: 35. No types known, not identifiable from description.
tenebrosa, Muraena Richardson 1848: 84. Holotype (BMNH 2012.2.15.1) in poor condition, not identifiable.

UNAVAILABLE SPECIES NAMES

echidna, Gymnothorax Suckow 1799: 181. Böhlke and Smith (2002: 107) treated this name as a nomen nudum. It seems, however, that it was simply a new combination for Muraena echidna Gmelin 1789, which is a synonym of Echidna nebulosa (Ahl 1789).
fasciata, Muraena Banks and Solander in Richardson 1848: 88, Nomen nudum, published in synonymy of Muraena colubrina Lacepède 1803.


guttata, Limmamuraena Duméril 1856: 200, Nomen nudum.

leopardina, Muraena Kaup 1856a: 61, Nomen nudum, published in synonymy of Muraena bullata Richardson 1848.

melanostigma, Muraena Kaup 1856a: 61, Nomen nudum, published in synonymy of Muraena bullata Richardson 1848.


ophis, Muraena Forsskål 1775: xiv, Nomen nudum. In the synonymy of Echidna nebulosa (Ahl 1789) — (Böhlke & Smith 2002: 134; Fricke 2008: 15 [listed incorrectly as Echidna zebra]).

paum, Calamaia Russell 1803: 22, pl. 32. Not a scientific name; described in a brief Latin phrase, with the comment that the natives called it calamaia paum. In synonymy of Gymnothorax meleagris (Shaw and Nodder 1795).

pernotatus, Priodonophis Poey 2000: 800, pl. 442 (fig. 1). Not explicitly proposed as a new name. Published posthumously.

pratbernon, Muraena Quoy & Gaimard 1824: 246, pl. 52. Not available, appeared as a common name in a figure caption. In synonymy of Muraena picta Ahl 1789.

pratbernon, Muraena Richardson 1848: 84. Nomen oblitum. In synonymy of Muraena javanica Bleeker 1859.


tigrina, Muraenophis Cuvier in Kaup 1856a: 61. Nomen nudum, published in synonymy of Muraena bullata Richardson 1848.


variegata, Echidna Forster in Richardson 1848: 94. Nomen nudum, published in synonymy of Muraena variegata Richardson 1848.

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