

Muraenidae

by J. Blache, M.-L. Bauchot & L. Saldanha

G: 4

Sp: 6

- 73.1 **MURAENA** [Artedi, 1738] Linnaeus, 1758 Gender: F
 Syst. Nat., ed. X : 244 (type: *M. Helena* Linnaeus, 1758, by subs. design. of Jordan, 1917); also spelt *Murena* by various authors.
Murenophis Cuvier, 1798, Tabl. élém. : 329 (type: *Muraena Helena* Linnaeus, 1758, by orig. design.).
Muraenophis Lacepède, 1803, Hist. nat. Poiss., 5 : 627 (type: *Muraena Helena* Linnaeus, 1758, by subs. design. of Jordan, 1917).
Limamuraena Kaup, 1856, Cat. Apod. : 95 (type: *L. guttata* Kaup, 1856, by monotypy).
- 73.1.1 ***Muraena helena*** Linnaeus, 1758
Muraena Helena Linnaeus, 1758, Syst. Nat., ed. X : 244 ('*Habitat in Europae, Americae Oceano*'). Type lost.
Muraena helena: Brunnichius, 1768 : 11, no. 20 | Bloch, 1787, 5 : 28, pl. 153 | Bonaterre, 1788 : 33, pl. 23 (fig. 79) | Rafinesque, 1810b : 44, no. 319 | Bowdich, 1825 : 125 | Risso, 1826, 3 : 189 | Jenyns, 1835 : 479 | Yarrell, 1836, 2 : 406 | Lowe, 1841 : 192 | Valenciennes in Cuv. Val., 1842 : 318, pl. 109 (fig. 2) | Bonaparte, 1845 : no. 331 | Guichenot, 1850, 5 : 114 | Gronow, 1854 : 18 | Kaup, 1856 : 55 | Yarrell, 1859 : 1 : 73 | Couch, 1865, 4 : 335, pl. 237 | Günther, 1870, 8 : 96 | Canestrini, 1875 : 203 | Moreau, 1881, 3 : 575, fig. 209 | Day, 1883 : 254, pl. 143 | Hilgendorf, 1888 : 212 | Holt, 1897 : 89 | Richard, 1904 : 9, 29; 1905 : 5 | Pellegrin, 1912 : 259 | Bouteillier, 1918 : 34 | Gruvel, 1924 : 31 | Buen, 1926 : 45, 164 | Gruvel, 1927 : 10 | Gruvel & Besnard, 1927 : 32 | Ancona, 1930 : pl. 130 (fig. 1) | Nobre, 1935 : 386 | Lavergne, 1937 : 438 | Poll, 1947 : 169, fig. 113 | Šoljan, 1948 : 395 | Maul, 1948 : 144 | Ben-Tuvia, 1953 : 9 | Albuquerque, 1954–1956 : 406 | Dieuzeide *et al.*, 1954 : 105 | Collins, 1954 : 14 | Zei in Riedl, 1963 : 517 | Blache, 1967a : 179, fig. 1–7 | Maurin, 1968 : 30, 41, 48, 107 | Wheeler, 1969 : 226, fig. | Tortonese, 1970e : 319, fig. 129A, pl. 5.
Gymnothorax muraena Schneider, 1801, in M. E. Blochii Syst. Ichthyol. : 525.
Muraenophis helena: Lacepède, 1803, 5 : 631 | Risso, 1810 : 366 | Dollfus, 1955 : 35, 113.
Muraena romana Shaw, 1805, Gen. Zool., 4 : 26 (Mediterranean).
Muraenophis fulva Risso, 1810, Ichth. Nice : 367 ('Nice'). Type lost.
Muraena variegata Rafinesque, 1810a, Caratt. Gen. Spec. Sicil. : 67 ('Sicilia').
Muraena punctata Rafinesque, 1810a, Caratt. Gen. Spec. Sicil. : 68 ('Sicilia').
Muraena guttata Risso, 1826, Hist. nat. Eur. mérid., 3 : 191 (Mediterranean). Type lost.
Muraena guttata: Lowe, 1841 : 192 | Richardson, 1844 : 70.
Thyrsoidea augusti Kaup, 1856, Cat. Apod. : 88 ('Madeira'). Type lost.
Limamuraena guttata: Kaup, 1856 : 96.
Thyrsoidea atlantica Johnson, 1862a, Proc. zool. Soc. Lond., 10 : 168 ('Madeira'). Holotype: BMNH no. 1862.2.5.2.
Muraena augusti: Günther, 1870 : 97 | Zugmayer, 1933 : 85 | Maul, 1948 : 144 | Albuquerque, 1954–1956 : 407 | Collins, 1954 : 14.
Muraena bettencourti Osorio, 1911, Mems Mus. Bocage : 76, pl. 2 (fig. 2) ('Cabo Verde'). Type lost.
Murenophis augusti: Fowler, 1936 : 1214.
Murenophis helena: Fowler, 1936 : 317, fig. 49, 1214 | Lozano Rey, 1947 : 571, pl. 11 (fig. 1) | Postel, 1959–1960 : 149, 250.
 Eggs, larvae and young stages. Grassi, 1896 : 372; 1897a : 261 | Sanzo, 1905 : 312 | Schmidt, 1906a : 149 | Lo Bianco, 1909 : 730 | Grassi, 1910 : 3, fig. 1–8 | Schmidt, 1912b : pl. 4 | Grassi, 1913 : 135, pl. 8 (fig. 1–10, 14–17, 19–21), pl. 12 (fig. 31–32),

pl. 13 (fig. 8) | Schmidt, 1913 : 6, fig. 3 | Grassi, 1915 : 702, 706; 1917 : 24, pl. 2 (fig. 10–11) | Bertin, 1926 : 328, tab. 1–6 | Fish, 1927 : 307 | Ancona, 1928 : 519; 1930: pl. 130 (fig. 2); 1931 : 145, fig. 144–150 | Ford, 1931 : 996 | Castle, 1969 : 22. Otoliths (sagitta). Frost, 1926 : 101 | Sanz Echeverría, 1928 : 164.

Habitat, distribution and abundance. Benthic, littoral, rocky coasts. Mediterranean and eastern Atlantic (from British isles to Senegal), Azores, Madeira, Canaries. Common.

Common names. Lamrini [Ar: Morocco], lefâa [Ar: Tunisia], marina [Eg], moray [En], morena [Es], murène [Fr], smérna [He], murina [Hr], murena [It], murena [Iw], morina [Mlt], moreia [Pr], merina [Tu].

73.2 *LYCODONTIS* McClelland, 1844

Gender: M

J. nat. Hist. Calcutta, 5 : 173 (type: *L. literata* McClelland, 1844, by subs. design. of Jordan, 1919).

Thaerodontis McClelland, 1844, *J. nat. Hist. Calcutta*, 5 : 174 (type: *T. reticulata* McClelland, 1844, by monotypy).

Eurymyctera Kaup, 1856, *Cat. Apod. Fish.* : 72 (type: *E. crudelis* Kaup, 1856, by monotypy).

Polyuranodon Kaup, 1856, *Cat. Apod. Fish.* : 96 (type: *Muraena polyuranodon* Bleeker, 1853, by orig. design.).

Taeniophis Kaup, 1860, *Abh. naturw. Ver. Hamburg.*, 1859 [1860], 4 (2) : 1 (type: *T. westphali* Kaup, 1860, by subs. design. of Jordan, 1919).

Aemasia Jordan & Snyder, 1901, *Proc. U.S. natn. Mus.*, 23 : 883 (type: *Aemasia lichenosa* Jordan & Snyder, 1901, by monotypy).

Ahynnodontophis Fowler, 1912, *Proc. Acad. nat. Sci. Philad.*, 64 : 25 (type: *Gymnothorax stigmanotus* Fowler, 1912, by orig. design.).

Verdithorax Whitley, 1931, *Aust. Zool.*, 6 : 311 (type: *Muraena prasina* Richardson, 1844, by orig. design.).

72.2.1 *Lycodontis anatinus* (Lowe, 1841)

Muraena anatina Lowe, 1841, *Trans. zool. Soc. London*, 2 (3) : 192 ('Madeira'). Type: BMNH no. 1869.3.7.1.

Muraena sanctae helenae Günther, 1870, *Cat. Fish. Brit. Mus.*, 8 : 115 ('St. Helena'). Type: BMNH no. 1868.3.11.3.

Muraena anatina: Günther, 1870 : 115 | Hilgendorf, 1888 : 212 | Maul, 1948 : 144 | Collins, 1954 : 14 | Albuquerque, 1954–1956 : 407.

Lycodontis anatinus: Fowler, 1936 : 314 | Blache, 1967b : 1151, fig. 13–16.

Eggs, larvae and young stages. No data.

Otoliths (sagitta). No data.

Habitat, distribution and abundance. Benthic, littoral, rocky coasts. Eastern Atlantic, only insular: Azores, Madeira, Canaries, Cape Verde, Isl., Ascension, St. Helena. Locally common.

Common names. Moreia serpente [Pr].

73.2.2 *Lycodontis unicolor* (Delaroche, 1809)

Muraenophis unicolor Delaroche, 1809, *Annls Mus. Hist. nat. Paris*, 13 : 319, 359, fig. 15 ('Iviça, Baléares'). Type: MNHN no. B 2413.

Muraenophis cristini Risso, *Ichth. Nice* : 368 ('Nice'). Type lost.

Muraenophis cristini: Risso, 1826 : 191.

Muraena unicolor: Lowe, 1841 : 192 | Valenciennes, in Cuv. Val., 1842 : 318 | Bonaparte, 1845: no. 330 | Guichenot, 1850 : 114 | Günther, 1870, 8 : 125 | Canestrini, 1875 : 202 | Moreau, 1881, 3 : 577 | Hilgendorf, 1888 : 212 | Nobre, 1935 : 387 | Athanassopoulos, 1936 : 1; 1937a : 168 | Šoljan, 1948 : 395 | Maul, 1948 : 144 | Albuquerque, 1954–1956 : 408 | Collins, 1954 : 14 | Dor, 1959 : 42.

Thyrsoidea unicolor: Kaup, 1856 : 91.

Gymnothorax unicolor: Grassi, 1913 : 143 | Vaillant, 1919 : 135 | Tortonese, 1970e : 322, fig. 129B.

Lycodontis unicolor: Fowler, 1936 : 309, 1212, fig. 146 | Lozano Rey, 1947 : 573 | Dieuzeide *et al.*, 1954 : 107 | Dollfus, 1955 : 113 | Postel, 1959–1960 : 149, 250 | Blache, 1967b : 1158, fig. 17–20.

Eggs, larvae and young stages. Strömman, 1896 : 24, pl. 2 (fig. 1–3) (*Leptocephalus forstromi* part.) | Sanzo, 1905 : 312 | Lo Bianco, 1909 : 731 | Grassi, 1912 : 19; 1913 : 194, pl. 8 (fig. 11–13, 18), pl. 12 (fig. 33), pl. 13 (fig. 9), pl. 14 (fig. 16) | Regan, 1916 : 141, pl. 7 (fig. 7), probably larva of *Lycodontis mareei* (Poll, 1954) | Ancona, 1928 : 519; 1931 : 148, fig. 151–155 (not fig. 154) | Bertin, 1936a : 7, fig. 8 | Thomopoulos, 1954 : 8 | Castle, 1969 : 22, 40.

Otoliths (sagitta). No data.

Habitat, distribution and abundance. Benthic, littoral: rocky coast, rough sand, gravel. Mediterranean, eastern Atlantic: Morocco, Azores, Canaries, Madeira, Cape Verde Isl. Common.

Common names. Moreão [Pr].

73.2.3 *Lycodontis vicinus* (Castelnau, 1855)

Murenophis vicina Castelnau, 1855, Poiss. in Expéd. Am. Sud., 3 : 81, pl. 42 (fig. 4) ('Bahia, Brasil'). Holotype: MNHN no. B 2423.

Thyrsoidea cancellata: Kaup, 1856 : 76 (part.).

Thyrsoidea maculipinnis (non Kaup, 1856): Troschel, 1866 : 237.

Muraena maculipinnis: Günther, 1870, 8 : 124 | Osorio, 1909a : 76.

Lycodontis vicinus: Fowler, 1936 : 311 | Blache, 1967b : 1125, fig. 1–4.

Eggs, larvae and young stages. No data.

Otoliths (sagitta). No data.

Habitat, distribution and abundance. Benthic, littoral: rough sand, gravel or rocks. Eastern Atlantic, only insular: Madeira, Canaries, Cape Verde Isl. Common.

Common names. None.

73.3 *ANARCHIAS* Jordan & Starks, 1906

Gender: M

Bull. Bur. Fish. Wash., 25 : 204 (type: *Anarchias allardicei* Jordan & Starks, 1906, by orig. design.).

73.3.1 *Anarchias grassii* (Roule, 1916)

Uropterygius grassii Roule, 1916, *Bull. Inst. océanogr. Monaco*, (320) : 6 ('Archipel du Cap Vert'). Syntypes: MOM, 6 exempl.

Uropterygius concolor (non Rüppell, 1835): Grassi, 1913 : 175, pl. 10 (fig. 23–24).

Uropterygius grassii: Roule, 1919 : 101, pl. 6 (fig. 2a–c).

Uropterygius atlanticus nom. nud. (Vaillant MS), Roule, 1919 : 135 ('Azores').

Uropterygius grassii: Fowler, 1936 : 323, fig. 151.

Anarchias grassii: Kanazawa, 1952 : 77 | Blache, 1967d : 1707 | Saldanha, 1968 : 17.

Eggs, larvae and young stages. Grassi, 1913 : 197, pl. 12 (fig. 36) | Lea, 1913 : 25, fig. 21–22, pl. 4 (fig. 4) (*Leptocephalus euryurus*) | Roule & Angel, 1921 : 8 (young stages) | Ancona, 1931 : 150, fig. 156 | Castle, 1969 : 27 (*Uropterygius concolor*).

Otoliths (sagitta). No data.

Habitat, distribution and abundance. Benthic, littoral, on rough sand or rocks from 10 to 100 meters. Mediterranean, eastern Atlantic: Azores, Madeira, Cape Verde Isl. Common.

Common names. None.

73.4 *GYMNOTHORAX* Bloch, 1795

Gender: M

Naturgesch. ausl. Fische, 9 : 83 (type: *G. reticularis* Bloch, 1795, by subs. design. of Bleeker, 1865, and Opin. Intern. Com. Zool. Nom., *Smithson. misc. Collns*, 1926, 73 (4) : 7).

Neomuraena Girard, 1858, *Proc. Acad. nat. Sci. Philad.*, 10 : 171 (type: *N. nigro-marginata* Girard, 1858, by monotypy).

Priodonophis Kaup, 1860, *Abh. naturw. Ver. Hamburg*, 1859 [1860], 4, 2 : 22 (type: *Gymnothorax ocellatus* Agassiz, 1828, by monotypy).

Pseudomuraena Johnson, 1862a, *Proc. zool. Soc. Lond.* : 167 (type: *P. maderensis* Johnson, 1862, by monotypy).

73.4.1 *Gymnothorax maderensis* (Johnson, 1862)

Pseudomuraena maderensis Johnson, 1862a, *Proc. zool. Soc. Lond.* : 167 ('Madeira'). Syntype: BMNH no. 1862.6.14.10.

Muraena maderensis: Günther, 1870, **8** : 125 | Albuquerque, 1954–1956 : 408.

Lycodontis unicolor (*part.*): Fowler, 1936 : 309 | Lozano Rey, 1947 : 573.

Gymnothorax maderensis: Blache, 1967c : 1697, 5 fig.

Eggs, larvae and young stages. No data.

Otoliths (sagitta). No data.

Habitat, distribution and abundance. Benthic, in coral reefs of sublittoral zone, rocks between 85–200 meters. Madeira, west coast of Africa (Dahomey). Rare.

Common names. Moreão [Pr].