

FAMILY *Notacanthidae* Rafinesque, 1810 - **spiny eels**

[=*Notacantini, Campylodontoidae, Lipogenyidae, Polyacanthonotinae Lipogenyidae*]

Notes: *Notacantini* Rafinesque, 1810b:34 [ref. 3595] (ordine) ? *Notacanthus* [*Notacantus* inferred from the stem; latinized to *Notacanthia* by Rafinesque 1815:89 [ref. 3584] (subfamily); latinized to *Notacanthi* by Günther 1861c:544 [ref. 1964]; considered valid with this authorship by Gill 1893b:133 [ref. 26255], by Nolf 1985:41 [ref. 32698], by Patterson 1993:625 [ref. 32940] and by Sheiko 2013:28 [ref. 32944] Article 11.7.2]

Campylodontoidae Gill, 1861a:34 [ref. 1766] (family) *Kampylodon* or *Campilodon* [as *Campylodon*, name must be corrected Article 32.5.3; ever corrected?]

Lipogenyidae Gill, 1893b:133 [ref. 26255] (family) *Lipogenys* Goode & Bean 1895 [genus inferred from the stem, Article 11.7.1.1; no valid type genus, not available, Article 11.7.1.1]

Polyacanthonotinae Goode & Bean, 1895b:457 [ref. 1847] (subfamily) *Polyacanthonotus* [priority given to *Polyacanthonotinae* over *Lipogenyidae* by Greenwood 1977:100]

Lipogenyidae Gill, in Goode & Bean, 1895b:457, 469 [ref. 1847] (family) *Lipogenys* [family name sometimes seen as *Lipogenidae*]

GENUS *Lipogenys* Goode & Bean, 1895 - **tapirfishes**

[=*Lipogenys* Goode [G. B.] & Bean [T. H.], 1895:469]

Notes: [ref. 1847]. Fem. *Lipogenys gillii* Goode & Bean, 1895. Type by monotypy. Also appeared as new in Goode & Bean 1896:173 [ref. 1848]. Misspelled *Lypogenys* in Zoological Record for 1894. •Valid as *Lipogenys* Goode & Bean, 1895 -- (McDowell 1973:223 [ref. 24539], Sheiko 1988 [ref. 13519], Paxton et al. 1989:149 [ref. 12442], Nakabo et al. 1991 [ref. 20071], Smith 1999:1629 [ref. 24661], Smith 2003:690 [ref. 26989], Paxton et al. 2006:232 [ref. 28995], Mundy et al. 2011:263 [ref. 31454]).

Current status: Valid as *Lipogenys* Goode & Bean, 1895. *Notacanthidae*.

Species *Lipogenys gillii* Goode & Bean, 1895 - **blackfin tapirfish, spiny sucker eel**

[=*Lipogenys gillii* Goode [G. B.] & Bean [T. H.], 1895:469, Pl. 18 (fig. 3),

Lipogenys plaxae Sheiko [B. A.], 1988:361, Figs. 1, 2a]

Notes: [Proceedings of the United States National Museum v. 17 (no. 1013); ref. 1847] Western Atlantic, 37°46'30"N, 73°56'30"W, Albatross station 2742, depth 865 fathoms.

Current status: Valid as *Lipogenys gillii* Goode & Bean, 1895. *Notacanthidae*.

Distribution: Japan, Hawaiian Islands, Atlantic, southwestern Pacific.

Habitat: marine.

(*plaxae*) [Voprosy Ikhtiologii v. 28 (no. 3); ref. 13519] East of Sendai Bay, Japan, 36°06'N [or 38°03'W], 142°19'E, depth 1000 meters.

Current status: Synonym of *Lipogenys gillii* Goode & Bean, 1895. *Notacanthidae*. Habitat: marine.

GENUS *Notacanthus* Bloch, 1788 - **spiny eels**

[=*Notacanthus* Bloch [M. E.], 1788:278, *Acanthonotus* Bloch [M. E.] & Schneider [J. G.], 1801:390,

Gigliolia Goode [G. B.] & Bean [T. H.], 1895:464, *Helorus* Goode [G. B.], 1880:109, *Kampylodon* Fabricius [O.], 1798:22]

Notes: [ref. 466]. Masc. *Notacanthus chemnitzii* Bloch, 1788. Type by monotypy. *Notacanthum* Rafinesque, 1815:89 [ref. 3584] is an incorrect subsequent spelling. •Valid as *Notacanthus* Bloch, 1788 -- (McDowell 1973:184 [ref. 24539], Uyeno in Masuda et al. 1984:32 [ref. 6441], Nakamura in Nakamura et al. 1986:60 [ref. 14235], Sulak in Whitehead et al. 1986:599 [ref. 13676], Sulak 1986:195 [ref. 5720], Paxton et al. 1989:150 [ref. 12442], Gomon et al. 1994:217 [ref. 22532], Smith 1999:1628 [ref. 24661], Mecklenburg et al. 2002:117 [ref. 25968], Smith 2003:689 [ref. 26989], Paxton et al. 2006:233 [ref. 28995], Smith 2008:185 [ref. 30621], Zhang et al. 2010:381 [ref. 31511], Mecklenburg et al. 2011:117 [ref. 31212], Mundy et al. 2011:263 [ref. 31454]).

Current status: Valid as *Notacanthus* Bloch, 1788. *Notacanthidae*.

(*Acanthonotus*) [ref. 471]. Masc. *Notacanthus nasus* Bloch, 1795. Type by monotypy. Apparently an unneeded name change for *Notacanthus* Bloch, 1788; *Notacanthus* not cited. •Objective synonym of *Notacanthus* Bloch, 1788 -- (McDowell 1973:184 [ref. 24539], Wheeler 1973:256 [ref. 7190]). Current status: Synonym of *Notacanthus* Bloch, 1788. *Notacanthidae*.

(*Gigliolia*) [ref. 1847]. Fem. *Gigliolia moseleyi* Goode & Bean, 1895. Type by monotypy. Also appeared as new in Goode & Bean 1896:169 [ref. 1848]. •Synonym of *Notacanthus* Bloch, 1788 -- (McDowell 1973:185 [ref. 24539]).

Current status: Synonym of *Notacanthus* Bloch, 1788. *Notacanthidae*.

(*Helorus*) [ref. 18143]. Not available, no distinguishing features. Species subsequently described as *Notacanthus phasganorus* Goode, 1881. •In the synonymy of *Notacanthus* Bloch, 1788. Current status: Synonym of *Notacanthus* Bloch, 1788. *Notacanthidae*.

(*Kampylodon*) [ref. 1288]. Masc. *Kampylodon fabricii* Reinhardt, 1837. Appeared first without species; first addition of species not researched. Original spelling is *Kampylodon*, not *Campylodon*. Figure given (Pl. 9, fig. 1).

•Synonym of *Notacanthus* Bloch, 1788 -- (McDowell 1973:185 [ref. 24539], Wheeler 1973:256 [ref. 7190]).

Current status: Synonym of *Notacanthus* Bloch, 1788. *Notacanthidae*.

Species *Notacanthus abbotti* Fowler, 1934 - **Mindinao spiny eel** (author)

[=*Notacanthus abbotti* Fowler [H. W.], 1934:267, Fig. 28, *Notacanthus macrorhynchus* Matsubara [K.], 1936:963, Fig.]

Notes: [Proceedings of the Academy of Natural Sciences of Philadelphia v. 85 (for 1933); ref. 1416] Camp Overton Light, northern Mindanao, Philippines, Bohol Sea, western Pacific, Albatross station 5510, 8°16'00"N, 124°03'50"E, depth 423 fathoms.

Current status: **Valid** as *Notacanthus abbotti* Fowler, 1934. *Notacanthidae*.

Distribution: Western and central Pacific: Philippines, Taiwan, China, Japan, and Hawaiian Ridge.

Habitat: marine.

(*macrorhynchus*) [Dobutsugaku Zasshi = Zoological Magazine Tokyo v. 48 (no. 11); ref. 13722] Kumano-Nada, Japan, depth about 150 fathoms. Current status: Synonym of *Notacanthus abbotti* Fowler, 1934. *Notacanthidae*. Habitat: marine.

Species *Notacanthus bonaparte* Risso, 1840 - **shortfin spiny eel**

[=*Notacanthus bonaparte* Risso [A.], 1840:376, Pl. 10],

Notacanthus mediterraneus De Filippi [F.] & Verany [G. B.], 1857:187 [3],

Notacanthus mediterraneus var. *pallidus* Vaillant [L. L.], 1888:328, Pl. 27 (fig. 2e)]

Notes: [Archiv für Naturgeschichte v. 6 (pt 2); ref. 18638] Nice, France, northwestern Mediterranean Sea.

Current status: **Valid** as *Notacanthus bonaparte* Risso 1840. *Notacanthidae*.

Distribution: Western Atlantic; Mediterranean Sea, eastern Atlantic: Iceland and Faroes to Mauritania.

Habitat: marine.

(*mediterraneus*) [Memorie / Reale accademia delle scienze di Torino (Ser. 2) v. 18; ref. 1329] Off Nice, Département des Alpes-Maritimes, France, northwestern Mediterranean Sea.

Current status: Synonym of *Notacanthus bonaparte* Risso, 1840. *Notacanthidae*. Habitat: marine.

(*pallidus*) [Expéditions scientifiques du "Travailleur" et du "Talisman"; ref. 4496] Coast of Sudan, northwestern Africa, depth 932 meters. Current status: Synonym of *Notacanthus bonaparte* Risso, 1840. *Notacanthidae*. Habitat: marine.

Species *Notacanthus chemnitzii* Bloch, 1788 - **snebnosed spiny eel**

[=*Notacanthus chemnitzii* Bloch [M. E.], 1788:278, Pl. 1, *Notacanthus analis* Gill [T. N.], 1883:255,

Campylodon fabricii Reinhardt [J. C. H.], 1837:114, 120, 121,
Notacanthus fascidens Matsubara [K.], 1938:131, Fig. 1,
Notacanthus melanoventris Osório [B.], 1909:92, Pl. 1 (figs. 3-5),
Notacanthus nasus Bloch [M. E.], 1795:113, Pl. 431,
Notacanthus phasganorus Goode [G. B.], 1881:535, *Helorus voraginorum* Goode [G. B.], 1880:109]

Notes: [Abhandlungen der Böhmisches Gesellschaft der Wissenschaften v. 3 [for 1787]; ref. 466] Nordmeer [Iceland, North Atlantic].

Current status: **Valid** as *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*.

Distribution: Possibly circumglobal and anti-tropical: Arctic Ocean; Atlantic; Pacific (not Hawaiian Islands).

Habitat: marine.

(*analis*) [Proceedings of the United States National Museum v. 6 (no. 380); ref. 1724] Off New England, U.S.A., 40°02'00"N, 68°50'30"W, Albatross station 2048, depth 547 fathoms.

Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*fabricii*) [Det Kongelige Danske videnskabernes selskabs naturvidenskabelige og matematiske afhandlinger v. 7; ref. 3691]

Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*fascidens*) [Bulletin of the Japanese Society of Scientific Fisheries v. 7 (no. 3); ref. 17158] Off Kinkazan, Myagi Prefecture, Japan.

Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*melanoventris*) [Memorias do Museu Bocage, Lisboa v. 1; ref. 19378] Off Sesimbra [Cezimbra], Portugal.

Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*nasus*) [Naturgeschichte der ausländischen Fische v. 9; ref. 464] Iceland.

Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*phasganorus*) [Proceedings of the United States National Museum v. 3 (no. 177); ref. 1833] Grand Banks, Newfoundland, Canada (stomach content). Current status: Synonym of *Notacanthus chemnitzii* Bloch, 1788. *Notacanthidae*. Habitat: marine.

(*voraginorum*) [Forest and Stream 9 Sept. 1880; ref. 18143]

Current status: Synonym of *Notacanthus chemnitzii* Bloch 1788. *Notacanthidae*.

Species *Notacanthus indicus* Lloyd, 1909 - **Arabian spiny eel** (author)

[=*Notacanthus indicus* Lloyd [R. E.], 1909:153]

Notes: [Memoirs of the Indian Museum v. 2 (no. 3); ref. 2814] Arabian Sea, 20°15'N, 69°08'28"E, Investigator station 305, depth 512 fathoms.

Current status: **Valid** as *Notacanthus indicus* Lloyd, 1909. *Notacanthidae*.

Distribution: Arabian sea.

Habitat: marine.

Species *Notacanthus sexspinis* Richardson, 1846 - **spiny-back eel**

[=*Notacanthus sexspinis* Richardson [J.], 1846:54, Pl. 32 (figs. 4-11),

Notacanthus annectens Boulenger [G. A.], 1903:167, Pl. 11,

Gigliolia moseleyi Goode [G. B.] & Bean [T. H.], 1895:465, Pl. 18 (fig. 1)]

Notes: [Ichthyology of the voyage of H. M. S. Erebus & Terror v. 2 (2); ref. 3740] King George Sound, Western Australia.

Current status: **Valid** as *Notacanthus sexspinis* Richardson, 1846. *Notacanthidae*.

Distribution: Southern circumglobal.

Habitat: marine.

(*annectens*) [Marine Investigations in South Africa. 1902, v. 2 (no. 11); ref. 5757] Off Cape Peninsula, Table Mountain. bearing N 79°E, South Africa, depth 250 fathoms.

Current status: Synonym of *Notacanthus sexspinis* Richardson, 1846. *Notacanthidae*. Habitat: marine.

(*moseleyi*) [Proceedings of the United States National Museum v. 17 (no. 1013); ref. 1847] Southwestern coast of South America, Challenger station 310, depth 400 fathoms.

Current status: Synonym of *Notacanthus sexspinis* Richardson, 1846. *Notacanthidae*. Habitat: marine.

Species *Notacanthus spinosus* Garman, 1899 - **Panama spiny-back eel** (author)

[=*Notacanthus spinosus* Garman [S.], 1899:301, Pl. L' (figs. 4-4b)]

Notes: [Memoirs of the Museum of Comparative Zoology v. 24; ref. 1540] Off (Pacific) Panama/Colombia, 7°09'45"N, 80°50'W, Albatross station 3354, depth 322 fathoms; 7°31'30"N, 79°14'W, station 3384, depth 458 fathoms.

Current status: **Valid** as *Notacanthus spinosus* Garman, 1899. *Notacanthidae*.

Distribution: Eastern Pacific.

Habitat: marine.

GENUS *Polyacanthonotus* Bleeker, 1874 - **tapirfishes**

[=*Polyacanthonotus* Bleeker [P.], 1874:368, *Gnathonotacanthus* Fowler [H. W.], 1934:266,
Macdonaldia Goode [G. B.] & Bean [T. H.], 1895:467,
Paradoxichthys Giglioli [E. H.], 1882:535, *Zanotacanthus* Gill [T. N.], 1877:883]

Notes: [ref. 435]. Masc. *Notacanthus rissoanus* De Filippi & Verany, 1857. Type by original designation (also monotypic).

•Valid as *Polyacanthonotus* Bleeker, 1874 -- (McDowell 1973:158 [ref. 24539], Wheeler 1973:256 [ref. 7190], Sulak et al. 1984 [ref. 5143], Uyeno in Masuda et al. 1984:32 [ref. 6441], Crabtree et al. 1985:235 [ref. 9483], Sulak in Whitehead et al. 1986:601 [ref. 13676], Sulak 1986:195 [ref. 5720], Gon 1990:100 [ref. 21680], Smith 1999:1628 [ref. 24661], Mecklenburg et al. 2002:117 [ref. 25968], Smith 2003:689 [ref. 26989]).

Current status: Valid as *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

(*Gnathonotacanthus*) [ref. 1416]. Masc. *Polyacanthonotus vaillanti* Fowler, 1934. Type by original designation.

•Synonym of *Polyacanthonotus* Bleeker, 1874 (Wheeler 1973:257 [ref. 7190]). •Synonym of *Polyacanthonotus* Bleeker, 1874 – (McDowell 1973:158 [ref. 24539]). Current status: Synonym of *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

(*Macdonaldia*) [ref. 1847]. Fem. *Notacanthus rostratus* Collett, 1889. Type by original designation (also monotypic). Also appeared as new in Goode & Bean 1896:171 [ref. 1848]. •Valid as *Macdonaldia* Goode & Bean, 1895 -- (Wheeler 1973:257 [ref. 7190]).

•Synonym of *Polyacanthonotus* Bleeker, 1874 -- (McDowell 1973:158 [ref. 24539], Sulak in Whitehead et al. 1986:601 [ref. 13676]).

Current status: Synonym of *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

(*Paradoxichthys*) [ref. 1618]. Masc. *Notacanthus rissoanus* De Filippi & Verany, 1857. Type by monotypy.

See also *Teratichthys* Giglioli, 1882. Also proposed a species name *Paradoxichthys garibaldianus* for his specimen if it was found to differ from *rissoanus*, but no distinguishing features were given, and *garibaldianus* is unavailable.

•Objective synonym of *Polyacanthonotus* Bleeker, 1874 -- (McDowell 1973:158 [ref. 24539], Wheeler 1973:257 [ref. 7190]). Current status: Synonym of *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

(*Zanotacanthus*) [ref. 12520]. Masc. *Notacanthus rissoanus* De Filippi & Verany, 1857. Type by monotypy.

•Objective synonym of *Polyacanthonotus* Bleeker, 1874 -- (McDowell 1973:158 [ref. 24539], Wheeler 1973:256 [ref. 7190]).

Current status: Synonym of *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

Species *Polyacanthonotus challengerii* (Vaillant, 1888) - **longnose tapirfish**

[=*Notacanthus challenger* Vaillant [L. L.], 1888:387,
Macdonldia africana Gilchrist [J. D. F.] & von Bonde [C.], 1924:11, Pl. 3 (fig. 1),
Macdonaldia alta Gill [T. N.] & Townsend [C. H.], 1897:232,
Macdonaldia longa Gill [T. N.] & Townsend [C. H.], 1897:232,
Polyacanthonotus vaillanti Fowler [H. W.], 1934:266, Fig. 27]

Notes: [Expéditions scientifiques du "Travailleur" et du "Talisman"; ref. 4496] South of Tokyo, 34°37'N, 140°32'E.

Current status: **Valid** as *Polyacanthonotus challenger* (Vaillant, 1888). *Notacanthidae*.

Distribution: Mostly antitropical, all oceans.

Habitat: marine.

(*africana*) [Report Fisheries and Marine Biological Survey, Union of South Africa Rep. 3 (no. 7) (1922); ref. 1649] Off Table Bay, South Africa, southeastern Atlantic, Pickle station 524, depth 1220 fathoms.

Current status: Synonym of *Polyacanthonotus challenger* (Vaillant, 1888). *Notacanthidae*. Distribution: Southern Africa.

Habitat: marine.

(*alta*) [Proceedings of the Biological Society of Washington v. 11; ref. 1749] Bering Sea, 54°54'00"N, 168°59'00"W, Albatross station 3604, depth 1401 fathoms.

Current status: Synonym of *Polyacanthonotus challenger* (Vaillant, 1888). *Notacanthidae*. Habitat: marine.

(*longa*) [Proceedings of the Biological Society of Washington v. 11; ref. 1749] Bering Sea, 54°41'00"N, 168°01'00"W, Albatross station 3607, depth 987 fathoms.

Current status: Synonym of *Polyacanthonotus challenger* (Vaillant, 1888). *Notacanthidae*. Habitat: marine.

(*vaillanti*) [Proceedings of the Academy of Natural Sciences of Philadelphia v. 85 (for 1933); ref. 1416] Atlantic, Gulf Stream, 38°47'20"N, 72°37'00"W, Albatross station 2103, depth 1091 fathoms.

Current status: Synonym of *Polyacanthonotus challenger* (Vaillant, 1888). *Notacanthidae*. Habitat: marine.

Species *Polyacanthonotus merretti* Sulak et al., 1984 - **Bahamas spiny eel** (author)

[=*Polyacanthonotus merretti* Sulak [K. J.], Crabtree [R. E.] & Hureau [J.-C.], 1984:59, Figs. 1-2]

Notes: [Cybium v. 8 (no. 4); ref. 5143] Bahamas, 24°05'00"N, 77°23'12"W, depth 1400-1409 meters.

Current status: **Valid** as *Polyacanthonotus merretti* Sulak, Crabtree & Hureau, 1984. *Notacanthidae*.

Distribution: Western Atlantic, including the Bahamas.

Habitat: marine.

Species *Polyacanthonotus rissoanus* (De Filippi & Verany, 1857) - **smallmouth spiny eel**

[=*Notacanthus rissoanus* De Filippi [F.] & Verany [G. B.], 1857:190 [6],

Paradoxichthys garibaldianus Giglioli [E. H.], 1882:535,

Notacanthus rostratus Collett [R.] 1889:307 [7]

Notes: [Memorie / Reale accademia delle scienze di Torino (Ser. 2) v. 18; ref. 1329] Nice, Département des Alpes-Maritimes, France, northwestern Mediterranean Sea.

Current status: **Valid** as *Polyacanthonotus rissoanus* (De Filippi & Verany, 1857). *Notacanthidae*.

Distribution: Atlantic, including Mediterranean Sea; possible all oceans except Polar seas.

Habitat: marine.

(*garibaldianus*) [Nature (London) v. 25 (no. 649); ref. 1618] Nice, France, northwestern Mediterranean Sea.

Current status: Synonym of *Polyacanthonotus rissoanus* (De Filippi & Verany, 1857). *Notacanthidae*. Habitat: marine.

(*rostratus*) [Bulletin de la Société Zoologique de France v. 14; ref. 18023] Off Newfoundland, Canada, 46°04'40"N, 49°02'30"W, station 161, depth 1267 meters.

Current status: Synonym of *Polyacanthonotus rissoanus* (De Filippi & Verany, 1857). *Notacanthidae*. Habitat: marine.

GENUS *Tilurus* Kolliker, 1853 - **spiny eels**

[=*Tilurus* Kolliker [R. A. von], 1853:100]

Notes: [ref. 2680]. Masc. *Tilurus gegenbauri* Kolliker, 1853 (= *Leptocephalus trichiurus* Cocco, 1829). Type by monotypy.

•Valid as *Tilurus* Kolliker, 1853, as larval *Notacanthiformes* -- (McDowell 1973:31 [ref. 24539], Smith 1989:956 [ref. 13285]).

Current status: **Valid** as *Tilurus* Kolliker, 1853. *Notacanthidae*.

Species *Tilurus gegenbauri* Kolliker, 1853 - **Gegenbaur's spiny eel** (author)

[=*Tilurus gegenbauri* Kolliker [R. A. von], 1853:101]

Notes: [Verhandlungen der Physikalisch-Medizinischen Gesellschaft zu Würzburg. v. 4 (no. 1); ref. 2680] Messina, Sicily, Italy,

Mediterranean Sea.

Current status: Valid as *Tilurus gegenbauri* K lliker, 1853. *Notacanthidae*.

Distribution:

Habitat: marine

Unavailable names, uncertain taxa

(genera)

Campilodon Cuvier [G.], 1829:205 [ref. 995]. Masc. *Notacanthus nasus* [= *Notacanthus nasus*] Bloch, 1795. Type by monotypy. Appeared as "*Notacanthes* Bl. (Campilodon. oth. Fabric.)." Regarded as a name in synonymy of *Notacanthus*; possibly never made available by later use. •In the synonymy of *Notacanthus* Bloch, 1788 -- (Wheeler 1973:256 [ref. 7190]). Current status: Uncertain as *Notacanthus* Bloch, 1788. *Notacanthidae*.

Teratichthys Giglioli [E. H.], 1882:535 [ref. 1618]. Masc. Name technically published in synonymy, as an alternate name for *Paradoxichthys* "should that term be pre-occupied." Apparently never made available. Also objectively invalid; preoccupied by *Teratichthys* K nig, 1825 in fossil fishes. •In the synonymy of *Polyacanthonotus* Bleeker, 1874 -- (McDowell 1973:158 [ref. 24539], Wheeler 1973:257 [ref. 7190]). Current status: Uncertain as *Polyacanthonotus* Bleeker, 1874. *Notacanthidae*.

Tiluropsis Roule [L.], 1911:734 [ref. 3813]. Fem. Apparently not available, described without species and none referred to it subsequently; based on a larva. *Tiluropsis* used by Smith, 1989:957 [ref. 13285] for reference for unidentified larvae in *Notacanthiformes*. Perhaps validated later (see references in Smith 1989:957 [ref. 13285]). *Notacanthidae*.

(species)

Notacanthus edwardsianus Verany [J. B.], 1865:238 [Annales de la Soci t  des Lettres, Sciences et Arts des Alpes-Maritimes v. 1; ref. 17883] Mediterranean Sea. No types known. Not found in current literature, not in McDowell 1973 [ref. 24539]. *Notacanthidae*. Habitat: marine.

Leptocephalus giganteus Castle [P. H. J.], 1959:179, Figs. 1-2 [Transactions of the Royal Society of New Zealand v. 87 (pts 1-2); ref. 11986] Off South Westland, New Zealand. Holotype (unique): NMNZ P.2603. Type catalog: Hardy 1990:6 [ref. 18942]. •Valid as *Leptocephalus giganteus* Castle, 1959 -- (Nielsen & Larsen 1970:149 [ref. 23972]). •See Castle & Raju 1974:15 [ref. 772]. •A larval Notocanthiform eel -- (Smith 1989:955, 958 [ref. 13285], Paulin et

al. 1989:249 [ref. 24556], Matarese et al. 1989:35 [ref. 26885]). *Notacanthidae*. Habitat: marine.

Oxystomus hyalinus Rafinesque [C. S.], 1810:49, 62 [Indice d'ittiologia siciliana; ref. 3595] Sicily, Italy, Mediterranean Sea. No Serrivomeridae are present in the Mediterranean Sea. •Based on a post-metamorphic Serrivomer -- (see McCosker 1977:82 [ref. 6836]). •In *Nemichthyidae* according to Tortonese 1970:350 [ref. 21834]. •Questionably in the genus *Tilurus* Kölliker, 1853 -- (Smith 1989:956 [ref. 13285]). *Notacanthidae*. Habitat: marine.

Leptocephalus trichiurus Cocco [A.], 1829:138 [Giornale di Scienze Lettere e Arti per La Sicilia Anno 7, v. 26 (no. 77); ref. 857] Messina, Sicily, Italy, Mediterranean Sea. No types known. •Probably a synonym of *Nemichthys scolopaceus* Richardson, 1848 -- (Tortonese 1970:350 [ref. 21384]). •In genus *Tilurus* Kölliker 1853 -- (Smith 1989:956 [ref. 13285]). *Notacanthidae*. Habitat: marine.