

Taxonomic Checklist of Fish taxa included in the
Appendices
at the 17th meeting of the Conference of the Parties
(Johannesburg, 2016)

Species information extracted from
Eschmeyer, W.N., R. Fricke, and R. van der Laan (eds.)

CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.
(<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>).

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Additional comments included by the
Nomenclature Specialist of the CITES Animals Committee

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Class Actinopteri

Order Perciformes

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Genus *Holacanthus*

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Class Elasmobranchii
Order Carcharhiniformes
Family Carcharhinidae
Genus *Carcharias*
Species ***Carcharias falciformis*** (Bibron 1839)

Carcharhinus falciformis (Bibron 1839) -- *Carcharias (Prionodon) falciformis*, Bibron [G.] in Müller & Henle 1839:47 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Cuba, western Atlantic. Holotype (unique): MNHN 0000-1134 (fetus). Type catalog: Bertin 1939:72 [ref. [20739](#)]. Authorship changed to Bibron 1839 -- Jones et al. 2015:570 [ref. [34086](#)]. •Valid as *Carcharhinus falciformis* (Bibron 1839) [sometimes authorship as Müller & Henle] -- (Compagno 1973:24 [ref. [7163](#)], Garrick 1982:159 [ref. [5454](#)], Branstetter in Whitehead et al. 1984:104 [ref. [13675](#)], Compagno 1984:470 [ref. [6846](#)], Nakaya in Masuda et al. 1984:6 [ref. [6441](#)], Bass et al. 1986:72 [ref. [5638](#)], Robins & Ray 1986:25 [ref. [23100](#)], Allen & Swainston 1988:22 [ref. [25477](#)], Paxton et al. 1989:77 [ref. [12442](#)], Paulin et al. 1989:25 [ref. [24556](#)], Springer 1990:104 [ref. [19320](#)], Randall et al. 1990:19 [ref. [15987](#)], Boschung 1992:20 [ref. [23239](#)], Cervigón 1992:171 [ref. [23827](#)], Allen & Robertson 1994:22 [ref. [22193](#)], Last & Stevens 1994:241 [ref. [23873](#)], Goren & Dor 1994:2 [ref. [25356](#)], Compagno et al. in Fischer et al. 1995:673 [ref. [22829](#)], Randall 1995:30 [ref. [22896](#)], Mohsin & Ambak 1996:61 [ref. [27969](#)] with author as Bibron, Allen 1997:42 [ref. [23977](#)], De La Cruz Agüero et al. 1997:28 [ref. [24545](#)], Grove & Lavenberg 1997:80 [ref. [24023](#)], Yokogawa & Yamaguchi 1997:4 [ref. [24376](#)], Arruda 1997:17 [ref. [24952](#)], Randall et al. 1997:19 [ref. [25919](#)], Compagno & Niem 1998:1335 [ref. [23787](#)], McEachran & Fechhelm 1998:77 [ref. [23897](#)], Chirichigno F. & Vélez D. 1998:54 [ref. [24555](#)], Myers 1999:34 [ref. [23965](#)], Fricke 1999:19 [ref. [24106](#)], Morón et al. 1999:147 [ref. [24253](#)], Cervigón & Alcalá 1999:57 [ref. [24490](#)], Smith-Vaniz et al. 1999:112 [ref. [25013](#)], Compagno 1999:483 [ref. [25589](#)], Nakabo 2000:139 [ref. [25086](#)], Compagno in Randall & Lim 2000:580 [ref. [25122](#)], Laboute & Grandperrin 2000:90 [ref. [25191](#)], Schmitter-Soto et al. 2000:146 [ref. [27754](#)], Grace 2001:30 [ref. [25694](#)], Hutchins 2001:14 [ref. [25847](#)], Soto 2001:64, 76 [ref. [26637](#)], Camargo & Isaac 2001:139 [ref. [27639](#)] as Bibron 1839, Nakabo 2002:139 [ref. [26001](#)], Collette et al. 2003:98 [ref. [26784](#)], Compagno 2003:479 [ref. [26984](#)], Gadig & Gomes in Menezes et al. 2003:23 [ref. [27192](#)], Manilo & Bogorodsky 2003:S92 [ref. [27377](#)], Myers & Donaldson 2003:609 [ref. [27495](#)], Randall et al. 2004:5 [ref. [27624](#)], Espinosa Pérez et al. 2004:52 [ref. [27705](#)] with author as Bibron 1841, Bonfil & Abdallah 2004:31 [ref. [27735](#)] with author as Bibron, Nelson et al. 2004:53 [ref. [27807](#)], Mundy 2005:89 [ref. [28379](#)], Compagno et al. 2005:37 [ref. [29145](#)] with author as Valenciennes, Hoese et al. 2006:100 [ref. [29001](#)], Fricke et al. 2009:9 [ref. [30213](#)], McCosker & Rosenblatt 2010:187 [ref. [30957](#)], Last et al. 2010:98 [ref. [32461](#)], Fricke et al. 2011:345 [ref. [31242](#)], Voigt & Weber 2011:60 [ref. [31424](#)] as *falciformes*, Castro 2011:413 [ref. [31457](#)], Hoyos-Padilla et al. 2012:15 [ref. [31760](#)], White 2012:3 [ref. [31843](#)], Yamashita et al. 2012:124 [ref. [32408](#)], Garibaldi & Orsi Relini 2012:399 [ref. [32859](#)], Page et al. 2013:51 [ref. [32708](#)], Wirtz et al. 2013:115 [ref. [32972](#)], Larson et al. 2013:9 [ref. [32988](#)], Ebert et al. 2013:331 [ref. [33045](#)], Smith-Vaniz & Jelks 2014:19 [ref. [33341](#)], Delrieu-Trottin et al. 2015:4 [ref. [33988](#)], Psomadakis et al. 2015:81 [ref. [34104](#)], Pinheiro et al. 2015:2 [ref. [34324](#)], Del Moral-Flores et al. 2016:91 [ref. [34398](#)] with authors as Müller & Henle, Weigmann 2016:19 [ref. [34211](#)] with authors as Müller & Henle, Compagno 2016:1303 [ref. [34544](#)], Fourrière et al. 2016:452 [ref. [34668](#)], Del Moral-Flores et al. 2016:605 [ref. [34923](#)]). **Current status:** Valid as *Carcharhinus falciformis* (Bibron 1839). Carcharhinidae. Distribution: Circumglobal in tropical seas (including Red Sea). Habitat: marine.

- falcipinnis*, *Carcharius* Lowe [R. T.] 1839:90 [Proceedings of the Zoological Society of London 1839 (pt 7); ref. [2829](#)] Madeira, eastern Atlantic. Lowe specimen: BMNH 1851.1.9.14 (1, stuffed). •Synonym of *Carcharhinus obscurus* (Lesueur 1818) -- (Compagno 1973:25 [ref. [7163](#)]). •Status uncertain -- (Garrick 1982:187 [ref. [5454](#)]). •Questionably a synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Compagno 1984:470 [ref. [6846](#)]). •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Voigt & Weber 2011:58 [ref. [31424](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.
- menisorrah*, *Carcharias* (*Prionodon*) Valenciennes [A.] in Müller & Henle 1839:46, [Pl. 17; Pl. 19 (teeth)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Red Sea. Lectotype: ZMB 4476. Paralectotypes: BMNH uncat. (1, whereabouts unknown), MNHN A-9662 (1), RMNH uncat. (2, mounted skins, whereabouts unknown), RNHG uncat. (1, whereabouts unknown), ZSL uncat. (1, embryo, whereabouts unknown), ZMB 4476 (mounted skin). Type catalog: Bertin 1939:72 [ref. [20739](#)], Paepke & Schmidt 1988:166 [ref. [21041](#)]. Evidently Müller & Henle alone were responsible for the description, so authorship is regarded as Müller & Henle (ex Valenciennes). Lectotype selected by Garrick 1982:160 [ref. [5454](#)]. •Valid as *Carcharhinus menisorrah* (Valenciennes 1839) - (Dor 1984:6 [ref. [29757](#)], Paxton et al. 1989:77 [ref. [12442](#)], Goren & Dor 1994:3 [ref. [25356](#)], Cheng & Zhou 1997:32 [ref. [26385](#)] dated 1841, Wang et al. 2001: [ref. [26566](#)] dated 1841). •Listed in the synonymy of *Carcharhinus amblyrhynchos* (Bleeker 1856), *C. dussumieri* (Müller & Henle 1839), and *Carcharhinus sealei* (Pietschmann 1916) (Compagno & Niem 1998:1328, 1334, and 1346 [ref. [23787](#)], Bonfil & Abdallah 2004:26, 30, 31 [ref. [27735](#)], Voigt & Weber 2011:60 [ref. [31424](#)]). •Synonym of *Carcharhinus amblyrhynchos* (Bleeker 1856) -- (Bonfil & Abdallah 2004:26 [ref. [27735](#)]). •Synonym of *Carcharhinus falciformis* (Valenciennes 1839) [after lectotype designation] -- (Garrick 1982:159 [ref. [5454](#)], Compagno 1984:470 [ref. [6846](#)], Randall et al. 1990:18 [ref. [15987](#)], Randall 1995:31 [ref. [22896](#)], Randall 2005:11 [ref. [28239](#)], Hoese et al. 2006:100 [ref. [29001](#)], Golani & Bogorodsky 2010:57 [ref. [35264](#)], Castro 2011:413 [ref. [31457](#)], Weigmann 2016:19 [ref. [34211](#)] with authors as Müller & Henle). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.
- tiburo*, *Squalus* Poey [F.] 1860:331 [Memorias sobre la historia natural de la Isla de Cuba v. 2; ref. [3499](#)] Cuba. As *Prionodon tiburo* on plate (published 1861). •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Garrick 1982:159 [ref. [5454](#)], Voigt & Weber 2011:60 [ref. [31424](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.
- pharaonis*, *Gymnorhinus* Hemprich [F. W.] & Ehrenberg [C. G.] 1899:8, Pl. 7 (fig. 1) [Symbolae physicae; ref. [4977](#)] Type catalog: Paepke & Schmidt 1988:167-168 [ref. [21041](#)] with AMB 4476 as holotype. See *Carcharias pharaonis* Ehrenberg in Klunzinger. •Synonym of *Carcharhinus menisorrah* (Müller & Henle 1839) -- (Dor 1984:7 [ref. [29757](#)]). •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Compagno 1984:470 [ref. [6846](#)], Voigt & Weber 2011:60 [ref. [31424](#)], Kottelat 2013:21 [ref. [32989](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.
- sitankaiensis*, *Aprionodon* Herre [A. W. C. T.] 1934:11 [Notes on fishes in the Zoological Museum of Stanford University. 1. The fishes of the Herre Philippine expedition of 1931.; ref. [2108](#)] Sitankai, Sibutu Islands, Sulu Province, Philippines. Holotype (unique): CAS-SU 13601. Type catalog: Böhlke 1953:9 [ref. [12291](#)]. •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Garrick 1982:159 [ref. [5454](#)], Compagno 1984:470 [ref. [6846](#)], Compagno et al. 2005:37 [ref. [29145](#)], Last et al. 2010:99 [ref. [32461](#)], Voigt & Weber 2011:60 [ref. [31424](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.
- floridanus*, *Carcharhinus* Bigelow [H. B.], Schroeder [W. C.] & Springer [S.] 1943:71, Pls. 13-14 [Proceedings of the New England Zoological Club v. 22; ref. [13195](#)] Off Fort

Pierce, Florida, U.S.A., western North Atlantic, depth about 100 feet. Holotype: MCZ 35807. Additional material: MCZ 35515 (1, jaws, fins and photographs). •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Compagno 1973:24 [ref. [7163](#)], Garrick 1982:159 [ref. [5454](#)], Branstetter in Whitehead et al. 1984:104 [ref. [13675](#)], Compagno 1984:470 [ref. [6846](#)], Springer 1990:104 [ref. [19320](#)], Randall et al. 1990:19 [ref. [15987](#)], Allen & Robertson 1994:22 [ref. [22193](#)], Compagno 2003:479 [ref. [26984](#)], Espinosa Pérez et al. 2004:52 [ref. [27705](#)], Voigt & Weber 2011:60 [ref. [31424](#)], Castro 2011:413 [ref. [31457](#)], Compagno 2016:1303 [ref. [34544](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.

malpeloensis, *Eulamia* Fowler [H. W.] 1944:299, Figs. 7-9 [Monographs of the Academy of Natural Sciences of Philadelphia No. 6; ref. [1448](#)] Malpelo Island, eastern Pacific west of Colombia. Holotype: ANSP 70048. Paratypes: ANSP 70049 (1). Type catalog: Böhlke 1984:34 [ref. [13621](#)]. •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839) -- (Garrick 1982:159 [ref. [5454](#)], Compagno 1984:470 [ref. [6846](#)], Espinosa Pérez et al. 2004:52 [ref. [27705](#)], Voigt & Weber 2011:60 [ref. [31424](#)], Castro 2011:413 [ref. [31457](#)]). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.

atrodorsus, *Carcharhinus* Deng [S.-M.], Xiong [G.-Q.] & Zhan [H.-X.] 1981:216 [English p. 219], Figs. 1-3 [Acta Zootaxonomica Sinica v. 6 (no. 2); ref. [8612](#)] Off Yongxing Island, Xisha Islands, China. Holotype (unique): ECSFI SH73-0872. •Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Current status: Synonym of *Carcharhinus falciformis* (Müller & Henle 1839). Carcharhinidae. Habitat: marine.

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Class Elasmobranchii

Order Lamniformes

Family Alopiidae

Genus *Alopias* Rafinesque 1810

Alopias pelagicus Nakamura 1935

Alopias superciliosus Lowe 1841

Alopias vulpinus (Bonnaterre 1788)

Alopias Rafinesque [C. S.] 1810:12 [ref. [3594](#)]. Masc. *Alopias macrourus* Rafinesque 1810. Type by monotypy. Misspellings include *Alopius* and *Alopes*. •Valid as *Alopias* Rafinesque 1810 -- (Springer 1973:17 [ref. [7162](#)], Quérou in Whitehead et al. 1984:91 [ref. [13675](#)], Compagno 1984:229 [ref. [6474](#)], Nakaya in Masuda et al. 1984:7 [ref. [6441](#)], Bass 1986:101 [ref. [5635](#)], Cappetta 1987:105 [ref. [6348](#)], Paxton et al. 1989:69 [ref. [12442](#)], Gomon et al. 1994:145 [ref. [22532](#)], Eitner 1995:562 [ref. [22404](#)], Compagno 1999:477 [ref. [25589](#)], Compagno 2001:80 [ref. [26323](#)], Mecklenburg et al. 2002:79 [ref. [25968](#)], Compagno 2003:428 [ref. [26984](#)], Compagno et al. 2005:16 [ref. [29145](#)], Hoese & Gates 2006:73 [ref. [28997](#)], White 2008:38 [ref. [30617](#)], Castro 2011:231 [ref. [31457](#)], Parin et al. 2014:18 [ref. [33547](#)], Duffy & Stewart 2015:66 [ref. [34216](#)], Dylidin 2015:47 [ref. [34524](#)], Pietsch & Orr 2015:13 [ref. [34694](#)], Del Moral-Flores et al. 2016:73 [ref. [34398](#)]). **Current status:** Valid as *Alopias* Rafinesque 1810. Alopiidae.

Vulpecula Valmont de Bomare [J. C.] 1764:v. 4, p. 609 [ref. [4507](#)]. Fem. Not available, published in a rejected work on Official Index (Opinion 89, Direction 32); neither available from Valmont de Bomare 1768, Paris edition: v. 5, p. 316 [ref. [4507](#)], nor from the 1775 Paris edition, v. 5, p. 441 [ref. [4507](#)]. Name validated by Garman 1913:30 [ref. [1545](#)]. •Synonym of *Alopias* Rafinesque 1810 -- (Compagno 1984:229 [ref. [6474](#)]). Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Vulpecula Jarocki [F. P.] 1822:454 [ref. [4984](#)]. Fem. *Squalus vulpes* Gmelin 1789. Type by monotypy. Described independent of *Vulpecula* Valmont de Bomare 1764. •Synonym of *Alopias* Rafinesque 1810 -- (Compagno 2001:80 [ref. [26323](#)]). Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Alopecias Müller [J.] & Henle [F. G. J.] 1837:114 [ref. [3067](#)]. Masc. *Squalus vulpes* Gmelin 1789. Type by monotypy. Also in Müller & Henle 1838:84 [ref. [3068](#)]. Apparently an unjustified emendation of and objective synonym of *Alopias* Rafinesque 1810, *Alopias* cited by Müller & Henle. Also appeared in Müller & Henle 1839:74 [ref. [3069](#)] in synonymy of *Alopias*. •In the synonymy of *Alopias* Rafinesque 1810 -- (Springer 1973:17 [ref. [7162](#)], Compagno 1984:229 [ref. [6474](#)], Compagno 2001:80 [ref. [26323](#)]). Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Vulpecula Garman [S.] (ex Valmont de Bomare) 1913:30 [ref. [1545](#)]. Fem. *Vulpecula marina* Garman 1913. Type by monotypy. *Vulpecula* Valmont 1768 is unavailable (published in a rejected work). *Vulpecula* Garman is available, and described independently of Jarocki 1822. Garman recognized one species, based on pre-Linnaean *marina*, which can date to Garman 1913. *Alopes* is a misspelling. •Synonym of *Alopias* Rafinesque 1810 -- (Compagno 1984:229 [ref. [6474](#)], Compagno 2001:80 [ref. [26323](#)]). Current status: Synonym of *Alopias* Rafinesque 1810. Alopiidae.

Alopias pelagicus Nakamura [H.] 1935:3, 5, Pl. 1 (fig. 2), Pl. 3 (figs. 5-6) [Memoirs Faculty Science Taihoku Imperial University Formosa v. 14 (no. 1); ref. [13907](#)] Market at Suò [Suao], east coast of Taiwan, 24°36'N, 121°52'E. Syntypes: (4) whereabouts unknown. Type catalog: Ho & Shao 2011:17 [ref. [31432](#)]. According to Ho & Shao 2011:17 [ref. [31432](#)], the syntype series was not registered and probably discarded. •Valid as *Alopias pelagicus* Nakamura 1935 -- (Compagno 1984:229 [ref. [6474](#)], Nakaya in Masuda et al. 1984:7 [ref. [6441](#)], Nakaya in Okamura & Kitajima 1984:39, 294 [ref. [8057](#)], Bass 1986:102 [ref. [5635](#)], Allen & Swainston 1988:20 [ref. [25477](#)], Paxton et al. 1989:69 [ref. [12442](#)], Randall et al. 1990:16 [ref. [15987](#)], Last & Stevens 1994:155 [ref. [23873](#)], Goren & Dor 1994:1 [ref. [25356](#)], Compagno et al. in Fischer et al. 1995:659 [ref. [22829](#)], Eitner 1995:562 [ref. [22404](#)], Randall 1995:23 [ref. [22896](#)], Allen 1997:40 [ref. [23977](#)], Chen et al. 1997:1 [ref. [26476](#)], Grove & Lavenberg 1997:64 [ref. [24023](#)], Randall et al. 1997:16 [ref. [25919](#)], Anderson et al. 1998:21 [ref. [23611](#)], Compagno 1998:1271 [ref. [23785](#)], Myers 1999:38 [ref. [23965](#)], Morón et al. 1999:145 [ref. [24253](#)], Compagno 1999:477 [ref. [25589](#)], Nakabo 2000:126 [ref. [25086](#)], Compagno in Randall & Lim 2000:578 [ref. [25122](#)], Hutchins 2001:13 [ref. [25847](#)], Compagno 2001:81 [ref. [26323](#)], Nakabo 2002:126 [ref. [26001](#)], Youn 2002:57, 475 [ref. [26218](#)], Manila & Bogorodsky 2003:S91 [ref. [27377](#)], Myers & Donaldson 2003:609 [ref. [27495](#)], Espinosa Pérez et al. 2004:79 [ref. [27705](#)], Bonfil & Abdallah 2004:19 [ref. [27735](#)], Nelson et al. 2004:51 [ref. [27807](#)], Heemstra & Heemstra 2004:72 [ref. [28072](#)], Mundy 2005:96 [ref. [28379](#)], Compagno et al. 2005:16 [ref. [29145](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Khalaf & Zajonz 2007:423 [ref. [31739](#)], White 2008:38 [ref. [30617](#)], McCosker & Rosenblatt 2010:187 [ref. [30957](#)], Motomura et al. 2010:68 [ref. [31256](#)], Last et al. 2010:62 [ref. [32461](#)], Fricke et al. 2011:345 [ref. [31242](#)], Ho & Shao 2011:17 [ref. [31432](#)], Castro 2011:233 [ref. [31457](#)], Yamashita et al. 2012:121 [ref. [32408](#)], Page et al. 2013:50 [ref. [32708](#)], Ebert et al. 2013:310 [ref. [33045](#)], Shinohara et al. 2014:231 [ref. [33330](#)], Psomadakis et al. 2015:74 [ref. [34104](#)], Del Moral-Flores et al. 2016:73 [ref. [34398](#)], Weigmann 2016:12 [ref. [34211](#)], Fourrière et al. 2016:452 [ref. [34668](#)], Del Moral-Flores et al. 2016:605 [ref. [34923](#)]). **Current status:** Valid as *Alopias pelagicus* Nakamura 1935. Alopiidae. Distribution: Circumglobal (including Red Sea). Habitat: marine.

Alopias superciliosus Lowe [R. T.] 1841:39 [Proceedings of the Zoological Society of London 1840 (pt. 8, no. 89); ref. [2830](#)] Madeira, Northeastern Atlantic. Holotype (unique): whereabouts unknown. No parentheses are used in the combination *Alopias superciliosus* Lowe 1841 as *Alopecias* is an unjustified emendation. •Valid as *Alopias superciliosus* Lowe 1841 -- (Springer 1973:17 [ref. [7162](#)], Gruber & Compagno 1981:619 [ref. [21249](#)], Nakaya in Okamura et al. 1982:41, 308 [ref. [8256](#)], Eschmeyer & Herald 1983:27 [ref. [9277](#)], Quéro in Whitehead et al. 1984:91 [ref. [13675](#)], Compagno 1984:231 [ref. [6474](#)], Nakaya in Masuda et al. 1984:7 [ref. [6441](#)], Bass 1986:102 [ref. [5635](#)], Robins & Ray 1986:19 [ref. [23100](#)], Paxton et al. 1989:69 [ref. [12442](#)], Paulin et al. 1989:34 [ref. [24556](#)], Springer 1990:85 [ref. [19319](#)], Cervigón 1992:168 [ref. [23827](#)], Bussing & López S. 1994:18 [ref. [23101](#)], Last & Stevens 1994:156 [ref. [23873](#)], Compagno et al. in Fischer et al. 1995:660 [ref. [22829](#)], Eitner 1995:562 [ref. [22404](#)], Randall 1995:23 [ref. [22896](#)], Golani 1996:20 [ref. [22271](#)], Grove & Lavenberg 1997:62 [ref. [24023](#)], Santos et al. 1997:118 [ref. [23531](#)], Arruda 1997:16 [ref. [24952](#)], Compagno 1998:1272 [ref. [23785](#)], McEachran & Fechhelm 1998:50 [ref. [23897](#)], Aguilera 1998:45 [ref. [24221](#)], Chirichigno F. & Vélez D. 1998:43 [ref. [24555](#)], Morón et al. 1999:145 [ref. [24253](#)], Cervigón & Alcalá 1999:34 [ref. [24490](#)], Smith-Vaniz et al. 1999:119 [ref. [25013](#)], Compagno 1999:477 [ref. [25589](#)], Nakabo 2000:126 [ref. [25086](#)], Compagno in Randall & Lim 2000:578 [ref. [25122](#)], Hutchins 2001:13 [ref. [25847](#)], Compagno 2001:83 [ref. [26323](#)], Soto 2001:65, 87 [ref. [26637](#)], Nakabo 2002:126 [ref. [26001](#)], Compagno 2003:429 [ref. [26984](#)], Gadig & Gomes in Menezes et al. 2003:25 [ref. [27192](#)], Manila & Bogorodsky 2003:S91 [ref. [27377](#)], Espinosa Pérez et al. 2004:80 [ref. [27705](#)], Bonfil & Abdallah 2004:19 [ref. [27735](#)], Nelson et al. 2004:51 [ref. [27807](#)], Heemstra & Heemstra 2004:73 [ref. [28072](#)], Mundy 2005:96 [ref. [28379](#)], Compagno et al. 2005:17 [ref. [29145](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Fricke et al. 2007:12 [ref. [29533](#)], White 2008:38 [ref. [30617](#)], Fricke et al. 2009:8 [ref. [30213](#)], White 2008:38 [ref. [30617](#)], McCosker & Rosenblatt 2010:187 [ref. [30957](#)], Fricke et al. 2011:345 [ref. [31242](#)], Ho & Shao 2011:17 [ref. [31432](#)], Castro 2011:236 [ref. [31457](#)], Page et al. 2013:50 [ref. [32708](#)], Wirtz et al. 2013:115 [ref. [32972](#)], Ebert et al. 2013:310 [ref. [33045](#)], Wirtz et al. 2014:2 [ref. [33516](#)], Psomadakis et al. 2015:74 [ref. [34104](#)], Duffy & Stewart 2015:66 [ref. [34216](#)], Pinheiro et al. 2015:2 [ref. [34324](#)], Del Moral-Flores et al. 2016:74 [ref.

[34398](#)], Weigmann 2016:13 [ref. [34211](#)], Fourrière et al. 2016:452 [ref. [34668](#)], Del Moral-Flores et al. 2016:605 [ref. [34923](#)]). **Current status:** Valid as *Alopias superciliosus* Lowe 1841. Alopiidae. Distribution: Circumglobal in tropical through temperate seas (including Mediterranean Sea). Habitat: marine.

profundus, *Alopias* Nakamura [H.] 1935:2, 4, Pl. 1 (fig. 1), Pl. 2 (figs. 3-4) [Memoirs Faculty Science Taihoku Imperial University Formosa v. 14 (no. 1); ref. [13907](#)] Market at Suô [Suao], east coast of Taiwan, 24°36'N, 121°52'E. Syntypes: (4) whereabouts unknown. Type catalog: Ho & Shao 2011:17 [ref. [31432](#)]. According to Ho & Shao 2011:17 [ref. [31432](#)], the syntype series was not registered and probably discarded. •Synonym of *Alopias superciliosus* Lowe 1841 -- (Gruber & Compagno 1981:621 [ref. [21249](#)], Compagno 1984:231 [ref. [6474](#)], Compagno et al. in Fischer et al. 1995:660 [ref. [22829](#)], Compagno 1998:1272 [ref. [23785](#)], Compagno 2001:83 [ref. [26323](#)], Compagno 2003:429 [ref. [26984](#)], Bonfil & Abdallah 2004:19 [ref. [27735](#)], Ho & Shao 2011:17 [ref. [31432](#)], Castro 2011:236 [ref. [31457](#)], Compagno 2016:1235 [ref. [34544](#)]). **Current status:** Synonym of *Alopias superciliosus* Lowe 1841. Alopiidae. Habitat: marine.

Alopias vulpinus (Bonnaterre 1788) – *Squalus vulpinus* Bonnaterre [J. P.] (ex Pennant 1788:9, Pl. 85 (fig. 349) [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] Mediterranean Sea; Cornwall, England, northeastern Atlantic. No types known. Based on the 'Sea fox' of Pennant 1769:86, Pl. 4 [ref. [18527](#)], which was based on multiple historical sources, and possibly on more than one species; neotype selection needed to stabilize the current usage of the name. •Valid as *Alopias vulpinus* (Bonnaterre 1788) -- (Springer 1973:17 [ref. [7162](#)], Eschmeyer & Herald 1983:27 [ref. [9277](#)], Quéro in Whitehead et al. 1984:92 [ref. [13675](#)], Compagno 1984:232 [ref. [6474](#)], Dor 1984:3 [ref. [29757](#)], Nakaya in Masuda et al. 1984:7 [ref. [6441](#)], Bass 1986:102 [ref. [5635](#)], Robins & Ray 1986:18 [ref. [23100](#)], Scott & Scott 1988:13 [ref. [25518](#)], Paxton et al. 1989:69 [ref. [12442](#)], Winterbottom et al. 1989:4 [ref. [13251](#)], Pequeño 1989:12 [ref. [14125](#)], Paulin et al. 1989:19 [ref. [24556](#)], McAllister 1990:29 [ref. [14674](#)], Springer 1990:85 [ref. [19319](#)], Compagno et al. 1991:74 [ref. [21083](#)], Cervigón 1992:168 [ref. [23827](#)], Boschung 1992:19 [ref. [23239](#)], Bianchi & Carpenter in Bianchi et al. 1993:74 [ref. [25472](#)], Bussing & López S. 1994:18 [ref. [23101](#)], Last & Stevens 1994:157 [ref. [23873](#)], Goren & Dor 1994:1 [ref. [25356](#)], Compagno et al. in Fischer et al. 1995:661 [ref. [22829](#)], Eitner 1995:562 [ref. [22404](#)], Randall 1995:23 [ref. [22896](#)], Grove & Lavenberg 1997:65 [ref. [24023](#)], Santos et al. 1997:10 [ref. [23531](#)], Arruda 1997:16 [ref. [24952](#)], Cheng & Zhou 1997:22 [ref. [26385](#)], Compagno 1998:1273 [ref. [23785](#)], McEachran & Fechhelm 1998:51 [ref. [23897](#)], Chirichigno F. & Vélez D. 1998:43 [ref. [24555](#)], Kabasakal 1998:685 [ref. [25006](#)], Fricke 1999:16 [ref. [24106](#)], Johnson 1999:719 [ref. [25471](#)], Compagno 1999:477 [ref. [25589](#)], Nakabo 2000:126 [ref. [25086](#)], Compagno in Randall & Lim 2000:578 [ref. [25122](#)], Laboute & Grandperrin 2000:87 [ref. [25191](#)], Hutchins 2001:13 [ref. [25847](#)], Compagno 2001:86 [ref. [26323](#)], Soto 2001:65, 88 [ref. [26637](#)], Bilecenoglu et al. 2002:11 [ref. [26753](#)], Branstetter in Collette & Klein-MacPhee 2002:34 [ref. [26158](#)], Mecklenburg et al. 2002:79 [ref. [25968](#)], Nakabo 2002:126 [ref. [26001](#)], Youn 2002:57, 476 [ref. [26218](#)], Compagno 2003:430 [ref. [26984](#)], Gadig & Gomes in Menezes et al. 2003:25 [ref. [27192](#)], Manilo & Bogorodsky 2003:S91 [ref. [27377](#)], Espinosa Pérez et al. 2004:81 [ref. [27705](#)], Bonfil & Abdallah 2004:20 [ref. [27735](#)], Nelson et al. 2004:51 [ref. [27807](#)], Heemstra & Heemstra 2004:72 [ref. [28072](#)], Mundy 2005:96 [ref. [28379](#)], Compagno et al. 2005:17 [ref. [29145](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Fricke 2007:25 [ref. [30577](#)], Fricke et al. 2007:12 [ref. [29533](#)], Vasil'eva 2007:17 [ref. [30517](#)], White 2008:38 [ref. [30617](#)], Fricke et al. 2009:8 [ref. [30213](#)], George 2009:34 [ref. [30539](#)], Fricke et al. 2011:345 [ref. [31242](#)], Castro 2011:241 [ref. [31457](#)], Yamashita et al. 2012:121 [ref. [32408](#)], Naylor et al. 2012:51 [ref. [34345](#)] see remarks, Page et al. 2013:50 [ref. [32708](#)], Ebert et al. 2013:310 [ref. [33045](#)], Shinohara et al. 2014:232 [ref. [33330](#)], Parin et al. 2014:18 [ref. [33547](#)], Duffy & Stewart 2015:67 [ref. [34216](#)], Dyldin 2015:47 [ref. [34524](#)], Pietsch & Orr 2015:13 [ref. [34694](#)], Del Moral-Flores et al. 2016:75 [ref. [34398](#)], Weigmann 2016:13 [ref. [34211](#)], Compagno 2016:1236 [ref. [34544](#)], Fourrière et al. 2016:452 [ref. [34668](#)], Del Moral-Flores et al. 2016:605 [ref. [34923](#)]). **Current status:** Valid as *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Distribution: Circumglobal in tropical through temperate seas (including Mediterranean Sea, Black Sea, western Baltic Sea, North Sea). Habitat: brackish, marine.

- alopezias*, *Squalus* Gronow [L. T.] in Gray 1854:7 [Catalogue of fish collected and described by Laurence Theodore Gronow; ref. [1911](#)] Atlantic; Mediterranean Sea. No types known. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- barrae*, *Alopecias* Pérez Canto [C.] 1886:6 [Anales de la Universidad de Chile Sec. 1, v. 69; ref. [18531](#)] Valparaíso, Chile. Holotype (unique): ?MHNV (possibly lost). See also Philippi 1887:553 [p. 21 of separate], Pl. 5 (fig. 2) [ref. [3464](#)]. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- caudatus*, *Alopias* Phillipps [W. J.] 1932:226, Fig. 1 [The New Zealand Journal of Science and Technology v. 13 (no. 4); ref. [16393](#)] Westernport, Victoria, Australia. Holotype: NMV 58434 (mounted specimen). Paratypes: NMNZ (1, photograph). This species is based on an Australian *Alopias* specimen described and figured by McCoy [Proc. Zool. Vic., pl. 88], and on a photograph of a New Zealand specimen. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Gomon et al. 1994:146 [ref. [22532](#)], Last & Stevens 1994:158 [ref. [23873](#)], Compagno 2001:86 [ref. [26323](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- chilensis*, *Alopecias* Philippi [R. A.] 1902:310 [Anales de la Universidad de Chile v. 109; ref. [14889](#)] Chile. No types known. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- greyi*, *Alopias* Whitley [G. P.] 1937:5 [Records of the Australian Museum v. 20 (no. 1); ref. [4691](#)] Off Bermagui, New South Wales, Australia. Holotype (unique): AMNH (jaws only). •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Paxton et al. 1989:70 [ref. [12442](#)], Gomon et al. 1994:146 [ref. [22532](#)], Last & Stevens 1994:158 [ref. [23873](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Castro 2011:241 [ref. [31457](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- longimana*, *Alopecias* Philippi [R. A.] 1902:308 [8] [Anales de la Universidad de Chile v. 109; ref. [14889](#)] Talcahuano Bay, Chile. Holotype (unique): whereabouts unknown. On p. 8 of separate. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- macrourus*, *Alopias* Rafinesque [C. S.] 1810:12 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:45 [ref. [3595](#)]. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Hoese & Gates 2006:73 [ref. [28997](#)], Castro 2011:241 [ref. [31457](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- marina*, *Vulpecula* Valmont de Bomare [J. C.] 1764:v. 4, p. 609 [Dictionnaire raisonné universel d'histoire naturelle, ...; ref. [4507](#)] Massachusetts Bay, U.S.A. No type known. Not available, published in a rejected work on Official Index (Opinion 89, Direction 32); neither available from Valmont de Bomare 1768, Paris edition: v. 5, p.316 [ref. [4507](#)], nor from the 1775 Paris edition, v. 5, p. 441 [ref. [4507](#)]. Based on a pre-Linnean name. Name validated by Garman 1913:30, Pl. 7 (figs. 1-3) [ref. [1545](#)]. •In the synonymy of *Alopias vulpinus* (Bonnaterre 1788). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.

- marina*, *Vulpecula* Garman [S.] 1913:30, Pl. 7 (figs. 1-3) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Massachusetts Bay, Massachusetts, U.S.A. Holotype (?): MCZ 1166-S. Not intended as new, but validates a pre-Linnaean name, and the unavailable name *Vulpecula marina* of Valmont de Bomare 1764:609 [ref. [4507](#)] and later editions; Garman is the author. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Castro 2011:241 [ref. [31457](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- vulpecula*, *Galeus* Rafinesque [C. S.] 1810:13 [Caratteri di alcuni nuovi generi e nuove specie di animali e piante della Sicilia; ref. [3594](#)] Sicily, Italy, Mediterranean Sea. No types known. Also appeared in Rafinesque 1810:46 [ref. [3595](#)] citing "*Squalus vulpecula* Linnaeus", a name not found. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Compagno 1984:232 [ref. [6474](#)], Compagno 2001:86 [ref. [26323](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- vulpes*, *Squalus* Gmelin [J. F.] 1789:1496 [Caroli a Linné ... Systema Naturae per regna tria naturae v. 1 (pt 3); ref. [18139](#)] Mediterranean Sea; Scotland; Cornwall, England, northeastern Atlantic. No types known. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Springer 1973:17 [ref. [7162](#)], Compagno 1984:232 [ref. [6474](#)], Springer 1990:85 [ref. [19319](#)], Gomon et al. 1994:145 [ref. [22532](#)], Compagno 2001:86 [ref. [26323](#)], Bilecenoglu et al. 2002:10 [ref. [26753](#)] with wrong author, Parin et al. 2014:18 [ref. [33547](#)], Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: brackish, marine.
- vulpes*, *Squalus* Berkenhout [J.] (ex Pennant) 1789:60 [Synopsis of the natural history of Great-Britain and Ireland v. 1; ref. [12437](#)] Mediterranean Sea; Scotland; Cornwall, England, northeastern Atlantic. No types known. Based on 'The Sea Fox' of Pennant 1769:86 [ref. [18527](#)]; apparently described independent from *Squalus vulpes* Gmelin 1789. Earliest publication not established. •Synonym of *Alopias vulpinus* (Bonnaterre 1788) -- (Dylidin 2015:47 [ref. [34524](#)]). Current status: Synonym of *Alopias vulpinus* (Bonnaterre 1788). Alopiidae. Habitat: marine.

Extract from

Eschmeyer, W. N., R. Fricke, and R. van der Laan (eds).

CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.

(<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>).

Electronic version accessed 12 May 2017. [This version was edited by Bill Eschmeyer.]

Note by Nomenclature Specialist (Fauna): between the adoption of CITES Proposal CoP17 Prop. 44, *Mobula* spp., taxonomic progress has argued for the placement of the two species previously recognized in the genus *Manta* (i.e. *Manta alfredi* and *Manta birostris*) in the genus *Mobula*. Thus, an extract of *Mobula* species also extracted the two species treated as belonging to the genus *Manta* for CITES purposes (see [Taxonomic Checklist of Fish species listed in the CITES Appendices and the Annexes of EC Regulation 338/97](#) (Elasmobranchii, Actinopteri, Coelacanthi, and Dipneusti, except the genus *Hippocampus*), Annex 6 to document CoP17 Doc. 81.1). For the present purposes, this checklist has been edited for consistency with the adopted Nomenclatural Standard Reference for the genus *Manta*, and the content of the genus *Mobula* as specified in Proposal CoP17 Prop. 44, by eliminating all records of taxa attributed to *Manta alfredi* and *M. birostris*, and reflecting the validity and synonymy of taxa as presented in CITES Proposal CoP17 Prop. 44.

Class Elasmobranchii

Order Myliobatiformes

Family Myliobatidae

Genus ***Mobula*** Rafinesque 1810

Mobula eregoodootenkee (Bleeker 1859)

Mobula hypostoma (Bancroft 1831)

Mobula japonica (Müller & Henle 1841)

Mobula kuhlii (Valenciennes, in Müller & Henle 1841)

Mobula mobular (Bonnaterre 1788)

Mobula munkiana Notarbartolo-di-Sciara 1987

Mobula rochebrunei (Vaillant 1879)

Mobula tarapacana (Philippi 1892)

Mobula thurstoni (Lloyd 1908)

Genus ***Mobula*** Rafinesque 1810

Mobula Rafinesque [C. S.] 1810:48, 61 [ref. [3595](#)]. Fem. *Mobula auriculata* Rafinesque 1810 (= *Raja mobular* Bonnaterre 1788). Type by monotypy. Rafinesque's *auriculata* given as a substitute for *Raja mobula* of Lacepède (= *R. mobular* Bonnaterre). •Valid as *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Nakaya in Masuda et al. 1984:16 [ref. [6441](#)], Compagno 1986:135 [ref. [5648](#)], Cappetta 1987:177 [ref. [6348](#)], Notarbartolo-Di-Sciara 1987 [ref. [9133](#)], Paxton et al. 1989:51 [ref. [12442](#)], Nishida 1990:98 [ref. [19783](#)], Compagno & Last 1999:1525 [ref. [24637](#)], Compagno 1999:498 [ref. [25589](#)], McEachran & Carvalho 2003:587 [ref. [26985](#)], Compagno et al. 2005:81 [ref. [29145](#)], Allen et al. 2006:207 [ref. [29002](#)], Marshall et al. 2009:1 [ref. [30599](#)], Duffy 2015:203 [ref. [34217](#)], Dydin 2015:76 [ref. [34524](#)], Duffy & Vogiatzis 2016:141 [ref. [34488](#)], Del Moral-Flores et al. 2016:136 [ref. [34398](#)], White & Last 2016:742 [ref. [35016](#)]). **Current status:** Valid as *Mobula* Rafinesque 1810. Mobulidae.

Apterurus Rafinesque [C. S.] 1810:48, 62 [ref. [3595](#)]. Masc. *Apterurus fabronii* Rafinesque 1810 (= *Raja fabroniana* Lacepède 1800). Type by monotypy. •Synonym of *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Cappetta 1987:177 [ref. [6348](#)]). **Current status:** Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephalopterus Risso [A.] (ex Duméril) 1810:14 [ref. [3755](#)]. Masc. *Raja giorna* Lacepède 1803. Type by subsequent designation. Type apparently first designated by Bancroft 1829:452 [ref. [5051](#)]. Objectively invalid; preoccupied by *Cephalopterus* Geoffroy St. Hilaire 1809 in Aves; replaced by *Pterocephalus* Swainson 1838. On Official Index (Direction 44). •Synonym of *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Cappetta 1987:177 [ref. [6348](#)]). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephaloptera Cuvier [G.] (ex Duméril) 1816:138 [ref. [993](#)]. Fem. *Raja cephaloptera* Bloch & Schneider 1801. Type by absolute tautonymy. Genus name misspelled *Chepaloptera* by Cuvier 1831:295 [ref. [30378](#)]. •Synonym of *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)]). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Dicerobatus (subgenus of *Raia*) Blainville [H. de] 1816:112 [= 120] [ref. [306](#)]. Masc. *Raia mobular* Bonnaterre 1788. Type by subsequent designation. The species *fimbriata* Lacepède was designated type by Bancroft 1829:452 [ref. [5051](#)]. Type *mobular* listed as type by Jordan 1917:95 [ref. [2407](#)] -- apparently designated first by Jordan & Evermann 1898:92 [ref. [2443](#)]. Spelled *Dicerobatis* by Agassiz 1845:22 [ref. [4889](#)] and 1846:122 [ref. [64](#)]. •Synonym of *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Cappetta 1987:177 [ref. [6348](#)]). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Dicerobatis Blainville [H. de] 1825:40 [ref. [4991](#)]. Fem. *Raia mobular* Bonnaterre 1788. Type by being a replacement name. Regarded as an unjustified emendation of, or new spelling for, *Dicerobatus* Blainville, and not a replacement for it (contrary to current literature). See also remarks in Literature Cited under this reference. •In the synonymy of *Mobula* Rafinesque 1810. Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Cephaloptera Billberg [G. J.] 1833:51 [ref. [34146](#)]. •Synonym of *Mobula* Rafinesque 1810 - (Kullander 2016:51 [ref. [34146](#)]). Mobulidae.

Ceratoptera Müller [J.] & Henle [F. G. J.] 1837:118 [ref. [3067](#)]. Fem. *Cephaloptera giorna* Lesueur 1824. Type by subsequent monotypy. Genus dates to 1837:118 as above with no included species ("...und *Ceratoptera* N., deren Typus die von Lesueur beschriebene *Cephalopter* ist;..") Also in Müller & Henle 1838:91 [ref. [3066](#)], "*Cephaloptera*, Nob. the type of which is the *Cephaloptera* described by Lesueur" [renamed *lesueurii* by Swainson 1839] Müller & Henle 1839:186 [ref. [3069](#)]. First addition of species evidently by Bonaparte 1838:6 (of separate) [ref. [4979](#)]. Misspelled *Deratoptera* by Whitley 1936:176 [ref. [6075](#)]. *Ceratoptera* Day 1878 is not an original description. •Synonym of *Mobula* (Bancroft 1829) -- (Cappetta 1987:176 [ref. [6348](#)]). •Synonym of *Mobula* (Bancroft 1829). Current status: Synonym of *Mobula* (Bancroft 1829). Mobulidae.

Pterocephalus Swainson [W.] 1838:170, 174 [ref. [4302](#)]. Fem. *Raja giorna* Lacepède 1803. Type by being a replacement name. Dates to Swainson 1838:170, 174, with *P. massena* Swainson mentioned (= *Cephalopterus massena* Risso 1810) but technically a replacement name for *Cephalopterus* (see footnote p. 174). Spelled *Pterocephala* by Swainson 1839 [ref. [4303](#)]. •Synonym of *Mobula* Rafinesque 1810 -- (Krefft & Stehmann 1973:77 [ref. [7167](#)] as *Pterocephala*, Cappetta 1987:177 [ref. [6348](#)]). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

Ceratobatis Boulenger [G. A.] 1897:227 [ref. [540](#)]. Fem. *Ceratobatis robertsii* Boulenger 1897. Type by monotypy. •Synonym of *Mobula* Rafinesque 1810 -- (Cappetta 1987:177 [ref. [6348](#)]). Current status: Synonym of *Mobula* Rafinesque 1810. Mobulidae.

***Mobula eregoodootenkee* (Bleeker 1859)**

eregoodootenkee, Cephaloptera Bleeker [P.] 1859:214 [Acta Societatis Regiae Scientiarum Indo-Neêrlandicae v. 6 (art. 3); ref. [371](#)] Gulf of Thailand off Cambodia, about 1 mile east of Goh Choaw, 11°03'-11°05'N, 103°03'30"-103°05'E. Neotype: CAS 56095. Appeared first in a footnote in Cuvier 1829:402 [ref. [995](#)] without a genus as, "Eregoodoo-tenkee, Russ. I, 9" but based on style elsewhere in work, this treatment is in the vernacular and probably not available. A neotype was designated by Notarbartolo-di-Sciara 1987:30 [ref. [9133](#)] for Cuvier 1829, and the species treated as valid by him; but that neotype designation probably does not apply for Bleeker 1859. Species apparently dates to Bleeker 1859:214 [ref. [371](#)] as above with reference to Cuvier and to Russell -- also see Compagno 1999:498 who treats Garman 1913 as establishing the valid binomial. •In the synonymy of *Mobula diabolus* (Shaw 1804) -- (Dor 1984:21 [ref. [29757](#)] which Notarbartolo-di-Sciara 1987:34 [ref. [9133](#)] indicates is another species). •Valid as *Raja eregoodootenkee* (Bleeker 1859), but questionably the same as *Raja diabolus* (Shaw 1804) -- (Heemstra in Smith & Heemstra 1995:vi [ref. [21953](#)], Compagno 1999:498 [ref. [25589](#)]). •Valid as *Mobula eregoodootenkee* (Bleeker 1859) -- (Last & Stevens 1994:460 [ref. [23873](#)], Compagno & Last 1999:1527 [ref. [24637](#)], Johnson 1999:718 [ref. [25471](#)], Compagno in Randall & Lim 2000:583 [ref. [25122](#)], Hutchins 2001:16 [ref. [25847](#)], Manilo & Bogorodsky 2003:S94 [ref. [27377](#)] as *eregoodootenke*, Bonfil & Abdallah 2004:56 [ref. [27735](#)], Compagno et al. 2005:81 [ref. [29145](#)], Allen et al. 2006:207 [ref. [29002](#)], Allen & Erdmann 2012:67 [ref. [31980](#)], Larson et al. 2013:22 [ref. [32988](#)], Fricke et al. 2014:15 [ref. [33932](#)], Psomadakis et al. 2015:108 [ref. [34104](#)], Weigmann 2016:145 [ref. [34211](#)]). •Synonym of *Mobula kuhlii* (Valenciennes 1841) -- (White & Last 2016:745 [ref. [35016](#)]). **Current status:** Synonym of *Mobula kuhlii* (Valenciennes 1841). Mobulidae. Distribution: Indo-West Pacific: Red Sea and East Africa to Papua New Guinea and Australia to Philippines [if valid]. Habitat: marine.

NOTE by Nomenclature Specialist: synonymy of *Mobula eregoodootenkee* with *Mobula kuhlii* does not take effect for CITES purposes unless and until specifically adopted by the Conference of Parties through an appropriate nomenclatural standard reference.

Mobula hypostoma (Bancroft 1831)

hypostomus, Cephalopterus Bancroft [E. N.] 1831:134 [Proceedings of the Committee of Science and Correspondence of the Zoological Society of London 1830-31 (pt 1); ref. [15966](#)] Kingston, Jamaica. Holotype (unique): not preserved. Also appeared in Bancroft 1835:411 [ref. [15971](#)], Suppl. Pl. 50. McEachran & Carvalho 2003:588 [ref. [26985](#)] indicate that e. Atlantic specimens are *M. rochebrunei*. •Valid as *Mobula hypostoma* (Bancroft 1831) -- (Robins & Ray 1986:45 [ref. [23100](#)], Notarbartolo-di-Sciara 1987:25 [ref. [9133](#)], Boschung 1992:28 [ref. [23239](#)], Cervigón 1992:202 [ref. [23827](#)], Castro-Aguirre & Espinosa Pérez 1996:61 [ref. [22793](#)], McEachran & Fechhelm 1998:195 [ref. [23897](#)], Cervigón & Alcalá 1999:204 [ref. [24490](#)], Compagno 1999:498 [ref. [25589](#)], Díaz de Astarloa et al. 2000:401 [ref. [24427](#)], Menni & Stehmann 2000:94 [ref. [24909](#)], Schmitter-Soto et al. 2000:147 [ref. [27754](#)], Camargo & Isaac 2001:144 [ref. [27639](#)] as *hipostoma* Robins & Ray 1986, McEachran & Carvalho 2003:588 [ref. [26985](#)], Gadig et al. 2003:869 [ref. [27134](#)], Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)], Nelson et al. 2004:57 [ref. [27807](#)], Page et al. 2013:57 [ref. [32708](#)], Del Moral-Flores et al. 2016:136 [ref. [34398](#)], Weigmann 2016:145 [ref. [34211](#)], White & Last 2016:744 [ref. [35016](#)]). **Current status:** Valid as *Mobula hypostoma* (Bancroft 1831). Mobulidae. Distribution: Western Atlantic, from North Carolina (U.S.A.) to Argentina and Mauritania to Angola [ref. [35016](#)]. Habitat: marine.

offersii, Cephaloptera Müller [J.] 1836:311 [Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin 1834; ref. [3060](#)] Brazil. Syntypes: MNHN 0000-9966 (1, dry); ?ZMB 31636 [ex ZMB 8923] (1), ?31637 (1). Type catalog: Séret & McEachran 1986:26 [ref. [9312](#)], Paepke & Schmidt 1988:179 [ref. [21041](#)]. •Synonym of *Mobula hypostoma* (Bancroft 1831) -- (Notarbartolo-di-Sciara 1987:25 [ref. [9133](#)]). **Current status:** Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

massenoidea, *Cephaloptera* Hill [R.] 1862:176 [The Intellectual observer. London v. 2; ref. [21782](#)] Jamaica. No types known. •Synonym of *Mobula hypostoma* (Bancroft 1831) -- (Notarbartolo-di-Sciara 1987:25 [ref. [9133](#)]). Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

robertsii, *Ceratobatis* Boulenger [G. A.] 1897:227 [Annals and Magazine of Natural History (Series 6) v. 20 (no. 116); ref. [540](#)] Jamaica. Holotype (unique): BMNH 1897.7.1.40. •Valid as *Ceratobatis robertsii* Boulenger 1897 -- (Cervigón 1992:202 [ref. [23827](#)] as *robertsii*). •Synonym of *Mobula hypostoma* (Bancroft 1831) -- (Notarbartolo-di-Sciara 1987:25 [ref. [9133](#)], Castro-Aguirre & Espinosa Pérez 1996:61 [ref. [22793](#)]). Current status: Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Habitat: marine.

Mobula japonica (Müller & Henle 1841)

japonica, *Cephaloptera* Müller [J.] & Henle [F. G. J.] 1841:185 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Japan [Nagasaki, Japan]. Lectotype: RMNH D2440 (dry, young). Paralectotypes: RMNH (1, lost). Type information: Boeseman 1947:228 [ref. [12876](#)] as *japonica*. Lectotype selected by Boeseman 1947:228 [ref. [12876](#)]. The original spelling was *japonica* and that spelling should be maintained. •Valid as *Mobula japonica* (Müller & Henle 1841) -- (Eschmeyer & Herald 1983:59 [ref. [9277](#)], Nakaya in Masuda et al. 1984:16 [ref. [6441](#)], Notarbartolo-di-Sciara 1987:53 [ref. [9133](#)] as *japonica*, Paulin et al. 1989:30 [ref. [24556](#)], Nishida 1990:92 [ref. [19783](#)], Last & Stevens 1994:461 [ref. [23873](#)] as *japonica*, Heemstra in Smith & Heemstra 1995:vi [ref. [21953](#)], McEachran & Notarbartolo-di-Sciara in Fischer et al. 1995:761 [ref. [22829](#)], Castro-Aguirre & Espinosa Pérez 1996:60 [ref. [22793](#)], Chen et al. 1997:11 [ref. [26476](#)], Grove & Lavenberg 1997:131 [ref. [24023](#)], Morón et al. 1999:150 [ref. [24253](#)], Compagno & Last 1999:1528 [ref. [24637](#)], Compagno 1999:498 [ref. [25589](#)], Nakabo 2000:186 [ref. [25086](#)], Youn 2002:73, 486 [ref. [26218](#)], Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)], Gadig et al. 2003:869 [ref. [27134](#)], Manilo & Bogorodsky 2003:S94 [ref. [27377](#)], Duffy & Abbott 2003:715 [ref. [27479](#)] as *japonica*, Bonfil & Abdallah 2004:56 [ref. [27735](#)], Nelson et al. 2004:57 [ref. [27807](#)], Mundy 2005:107 [ref. [28379](#)] as *japonica*, Allen et al. 2006:208 [ref. [29002](#)], Randall 2007:48 [ref. [30952](#)], McCosker & Rosenblatt 2010:188 [ref. [30957](#)], Last et al. 2010:260 [ref. [32461](#)], Page et al. 2013:57 [ref. [32708](#)], Ebert et al. 2013:369 [ref. [33045](#)], Psomadakis et al. 2015:108 [ref. [34104](#)], Duffy 2015:203 [ref. [34217](#)], Pinheiro et al. 2015:4 [ref. [34324](#)], Dyldin 2015:76 [ref. [34524](#)] as *japonica*, Del Moral-Flores et al. 2016:137 [ref. [34398](#)], Weigmann 2016:145 [ref. [34211](#)], Notarbartolo-di-Sciara & Séret 2016:1437 [ref. [34552](#)], Fourrière et al. 2016:453 [ref. [34668](#)], Del Moral-Flores et al. 2016:606 [ref. [34923](#)]). **Current status:** Valid as *Mobula japonica* (Müller & Henle 1841). Mobulidae. Distribution: Circumglobal in warm seas. Habitat: marine.

rancureli, *Mobula* Cadenat [J.] 1959:1331, Figs. 1-10 [Bulletin de l'Institut Français d'Afrique Noire (Sér A) Sciences Naturelles v. 21 (no. 4); ref. [11984](#)] Ivory Coast, western Africa. Holotype (unique): MNHN 1965-0146 (in 5 pieces). Type catalog: Séret & McEachran 1986:27 [ref. [9312](#)]. •Valid as *Mobula rancureli* Cadenat 1959 -- (McEachran & Séret 1990:75 [ref. [19318](#)]). •Synonym of *Mobula japonica* (Müller & Henle 1841) -- (Notarbartolo-di-Sciara 1987:47 [ref. [9133](#)]). •Synonym of *Mobula japonica* (Müller & Henle 1841) -- (Weigmann 2016:145 [ref. [34211](#)]). Current status: Synonym of *Mobula japonica* (Müller & Henle 1841). Mobulidae. Distribution: Eastern Atlantic (if valid). Habitat: marine.

Mobula kuhlii (Valenciennes, in Müller & Henle 1841)

kuhlii, *Cephaloptera* Valenciennes [A.] in Müller & Henle 1841:185, [Pl. 59 (left)] [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] India. Lectotype: MNHN 0000-1596. Possible paralectotypes: BMNH 2008.12.1.1 [ex ZSL] (1, stuffed and mounted). Type

catalog: Bertin 1939:92 [ref. [20739](#)], Séret & McEachran 1986:26 [ref. [9312](#)]. Lectotype listed in Séret & McEachran 1986:26 [ref. [9312](#)] on verbal information from Notarbartolo-di-Sciara; it is uncertain if this established the lectotype -- see Compagno et al. 2005:81 [ref. [29145](#)]. Subsequent workers perhaps established the lectotype. Authorship changed to Valenciennes 1841 -- Jones et al. 2015:570 [ref. [34086](#)]. •Synonym of *Mobula diabolus* (Shaw 1804) -- (Dor 1984:22 [ref. [29757](#)]). •Valid as *Mobula kuhlii* (Valenciennes 1841) -- (Notarbartolo-di-Sciara 1987:47 [ref. [9133](#)], Randall 1995:51 [ref. [22896](#)], Compagno & Last 1999:1528 [ref. [24637](#)], Compagno 1999:498 [ref. [25589](#)], Compagno in Randall & Lim 2000:583 [ref. [25122](#)], Manilo & Bogorodsky 2003:S94 [ref. [27377](#)], Compagno et al. 2005:81 [ref. [29145](#)] with author as Valenciennes, Last et al. 2010:262 [ref. [32461](#)], Psomadakis et al. 2015:109 [ref. [34104](#)], Weigmann 2016:145 [ref. [34211](#)] needs further examination, may be *Mobula eregoodootenkee*, White & Last 2016:745 [ref. [35016](#)] with authorship as Müller & Henle). **Current status:** Valid as *Mobula kuhlii* (Valenciennes 1841). Mobulidae. Distribution: Indo-West Pacific: South Africa to Indonesia and Australia. Habitat: marine.

eregoodoo, *Dicerobatis* Cantor [T. E.] 1849:1420 [438] [Journal of the Asiatic Society of Bengal v. 18 (pt 2); ref. [715](#)] Penang, Malaysia; Coromandel, India. Syntypes: whereabouts unknown. On p. 438 of separate. Based on Russell illustration, on *Cephaloptera eregoodo-tenkee* Cuvier, and on 1 specimen. •Synonym of *Mobula eregoodootenkee* (Bleeker 1859). •Synonym of *Mobula kuhlii* (Valenciennes 1841). Current status: Synonym of *Mobula kuhlii* (Valenciennes 1841). Mobulidae. Habitat: marine.

draco, *Dicerobatis* Günther [A.] 1872:422 [Annals and Magazine of Natural History (Series 4) v. 10 (no. 60) (art., 60); ref. [18195](#)] Misool [Misol] Island, Irian Jaya, Indonesia. Syntypes: BMNH 1870.8.31.68-69 (2). •Synonym of *Mobula kuhlii* (Müller & Henle 1841) -- (Notarbartolo-di-Sciara 1987:47 [ref. [9133](#)], Last et al. 2010:262 [ref. [32461](#)]). Current status: Synonym of *Mobula kuhlii* (Müller & Henle 1841). Mobulidae. Habitat: marine.

Mobula mobular (Bonnaterre 1788)

mobular, *Raja* Bonnaterre [J. P.] 1788:5 [Tableau encyclopédique et méthodique des trois règnes de la nature... Ichthyologie; ref. [4940](#)] Montredon, near Marseille, France, western Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1986:34 [ref. [9312](#)]. Original genus should have been spelled Raja. Misspelled *mobularis* by Cabrera, Pérez & Haenseler 1817:12 [ref. [17319](#)], see Graells 1887:186 [ref. [30438](#)]. •Synonym of *Mobula japonica* (Müller & Henle 1841) -- (Notarbartolo-di-Sciara & Séret 2016:1437 [ref. [34552](#)]). •Valid as *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], McEachran & Capapé in Whitehead et al. 1984:210 [ref. [13675](#)], Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)], McEachran & Séret 1990:74 [ref. [19318](#)], Santos et al. 1997:16 [ref. [23531](#)], Arruda 1997:24 [ref. [24952](#)], Compagno 1999:498 [ref. [25589](#)], Bradaï & Capapé 2001:389 [ref. [25924](#)], Bilecenoglu et al. 2002:28 [ref. [26753](#)], Fricke et al. 2007:21 [ref. [29533](#)], Golani & Bogorodsky 2010:58 [ref. [35264](#)], Weigmann 2016:146 [ref. [34211](#)], White & Last 2016:746 [ref. [35016](#)]). **Current status:** Valid as *Mobula mobular* (Bonnaterre 1788). Mobulidae. Distribution: Probably circumglobal. Habitat: marine.

edentulus, *Squalus* Brünnich [M. T.] 1768:6 [Ichthyologia Massiliensis, sistens piscium descriptiones eorumque apud incolas nomina; ref. [17290](#)] Marseille, France, western Mediterranean Sea. No types known. •Questionably the same as *Mobula mobular* (Bonnaterre 1788) -- (Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Uncertain as *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

vespertilio, *Raja* Walbaum [J. J.] 1792:535 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Azores, northeastern Atlantic. On Raie cornue Duhamel 1769 sect. 9 p. 293 pl. 17 figs. 1-2, Azores. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (P. Parenti, pers.

comm.). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae.
Habitat: marine.

cornu, *Aodon* Lacepède [B. G. E.] 1798:297, 300 [Histoire naturelle des poissons (Lacepède) v. 1; ref. [2708](#)] Unneeded new name for *Squalus edentulus* Brunnich 1768.
•Synonym of *Mobula mobular* (Bonnaterre 1788). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

aurita, *Raia* Suckow [G. A.] 1799:78 [Naturgeschichte der Thiere v. 4, pt. 1; ref. [18858](#)]
•Possibly in the synonymy of *Mobula mobular* (Bonnaterre 1788). Current status: Uncertain as *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

fabroniana, *Raia* Lacepède [B. G. E.] 1800:104, 111, Pl. 5 (figs. 1-2) [Histoire naturelle des poissons (Lacepède) v. 2; ref. [2709](#)] Livourne, Mediterranean Sea. Holotype (unique): MZUF (not found in 1995). Also appeared in Sonnini 1802:73, 285 [ref. [30461](#)].
•Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)] as *fabronia*, Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

cephaloptera, *Raja* Bloch [M. E.] & Schneider [J. G.] 1801:365 [M. E. Blochii, Systema Ichthyologiae; ref. [471](#)] No locality. Holotype (unique): ZMB 13407 (partial specimen, forepart of skull). Type catalog: Paepke & Schmidt 1988:180 [ref. [21041](#)], Paepke 1999:104 [ref. [24282](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)] as *fabronia*, Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

giorna, *Raja* Lacepède [B. G. E.] 1803:662, 666, Pl. 20 (fig. 3) [Histoire naturelle des poissons (Lacepède) v. 5; ref. [4930](#)] Bay of Nice, France, northwestern Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1986:34 [ref. [9312](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)] as *fabronia*, Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

diabolus, *Raja* Shaw [G.] 1804:291 [General zoology or systematic natural history; ref. [4015](#)] Mediterranean Sea, Atlantic and Indian Oceans. No types known. Based on literature sources. The name *diabolus* should not decline. Notarbartolo-di-Sciara (1987) restricted the type locality as the Mediterranean, although Shaw said the Mediterranean, Atlantic and Indian oceans. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)], Golani & Bogorodsky 2010:58 [ref. [35264](#)], Weigmann 2016:146 [ref. [34211](#)]). •Valid as *Mobula diabolus* (Shaw 1804) -- (Dor 1984:21 [ref. [29757](#)], Nakaya in Masuda et al. 1984:16 [ref. [6441](#)], Compagno 1986:134 [ref. [5648](#)], Paxton et al. 1989:51 [ref. [12442](#)], Nishida 1990:92 [ref. [19783](#)], Goren & Dor 1994:6 [ref. [25356](#)], Mohsin & Ambak 1996:82 [ref. [27969](#)], Fricke 1999:33 [ref. [24106](#)], Nakabo 2000:186 [ref. [25086](#)], Nakabo 2002:186 [ref. [26001](#)], Sujatha 2002:157 [ref. [26899](#)]). Current status: Valid as *Mobula diabolus* (Shaw 1804). Mobulidae. Distribution: Circumglobal (including Mediterranean Sea, Red Sea). Habitat: marine.

NOTE by Nomenclature Specialist: *Mobula diabolus* (Shaw, 1804) was specifically treated as a synonym of *M. mobular* in CoP17 Prop. 44. Note that most recent references cited above treat *diabolus* as synonym of *mobular*. Regardless, scientific recognition of *Mobula diabolus* as valid and distinct from *Mobula mobular* does not take effect for CITES purposes unless and until specifically adopted by the Conference of Parties through an appropriate nomenclatural standard reference.

auriculata, *Mobula* Rafinesque [C. S.] 1810:48, 61 [Indice d'ittologia siciliana; ref. [3595](#)] Based on *Raja mobula* of Lacepède. •Synonym of *Mobula mobular* (Bonnaterre 1788) - (Krefft & Stehmann 1973:77 [ref. [7167](#)] as *fabronia*, Notarbartolo-di-Sciara 1987:64 [ref.

[9133](#)). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

fabroni, *Apterurus* Rafinesque [C. S.] 1810:48 [Indice d'ittologia siciliana; ref. [3595](#)] Unjustified emendation of *Raja fabroniana* Lacepède 1800. •In the synonymy of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

massena, *Cephalopterus* Risso [A.] 1810:15 [Ichthyologie de Nice; ref. [3755](#)] Nice, France, northwestern Mediterranean Sea. No types known. Type catalog: Séret & McEachran 1986:34 [ref. [9312](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

dumerillii, *Cephaloptera* Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Montredon, near Marseille, France, western Mediterranean Sea. No types known. Based on the "Molubar" [sic, should have been Mobular] of Lacepède 1798:151 [ref. [2708](#)]; see Kullander 2016:112 [ref. [34147](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Kullander 2016:112 [ref. [34147](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

rissoi, *Cephaloptera* Billberg [G. J.] 1833:51 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Nice, France, northwestern Mediterranean Sea. No types known. Genus erroneously abbreviated as "M."; should have been *Cephaloptera*. Based on the *Cephalopterus massena* of Risso 1810:15 [ref. [3755](#)], thus synonym of *Cephalopterus massea* Risso 1810; see Kullander 2016:112 [ref. [34147](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Kullander 2016:112 [ref. [34147](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

cornutus, *Anodon* Billberg [G. J.] 1833:52 [Linnéska Samfundets Handlingar v. 1 (for 1832); ref. [34146](#)] Marseille, France, western Mediterranean Sea. No types known. Unnecessary replacement name for *Squalus edentulus* Brünnich 1768; see Kullander 2016:113 [ref. [34147](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Kullander 2016:113 [ref. [34147](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

monstrum, *Dicerobatis* Klunzinger [C. B.] 1871:687 [Verhandlungen der K.-K. zoologisch-botanischen Gesellschaft in Wien v. 21; ref. [2622](#)] Al-Qusair, Red Sea Governorate, Egypt, Red Sea. Holotype (unique): SMNS 1632 (lost). Type catalog: Fricke 1992:13 [ref. [20296](#)]. Fricke 2005:48 [ref. [29864](#)]. •Synonym of *Mobula diabolus* (Shaw 1804) -- (Dor 1984:21 [ref. [29757](#)]). Current status: Synonym of *Mobula diabolus* (Shaw 1804). Mobulidae. Habitat: marine.

edentula, *Cephalopterus* Griffini [A.] (ex Brüun) 1903:132, Fig. 73 [Ittiologia italiana. Descrizione dei pesci di mare e d'acqua dolce; ref. [18159](#)] Italian seas. No types known. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)], Notarbartolo-di-Sciara 1987:64 [ref. [9133](#)]). Current status: Synonym of *Mobula mobular* (Bonnaterre 1788). Mobulidae. Habitat: marine.

Mobula munkiana Notarbartolo-di-Sciara 1987

munkiana*, *Mobula Notarbartolo-di-Sciara [G.] 1987:9, Figs. 3-7, 8A [Zoological Journal of the Linnean Society v. 91 (no. 1); ref. [9133](#)] Bahia de la Ventana, Baja California Sur, Mexico, 24°04'N, 109°53'W, near surface over depth of 15 meters. Holotype: SIO 84-29. Paratypes: SIO 53-178-6A (1), 84-29 (2), 85-34 (1), 85-35 (2). •Valid as *Mobula munkiana* Notarbartolo-

di-Sciara 1987 -- (Acero P. & Franke 1995:18 [ref. [22546](#)], McEachran & Notarbartolo-di-Sciara in Fischer et al. 1995:762 [ref. [22829](#)], Castro-Aguirre & Espinosa Pérez 1996:61 [ref. [22793](#)], Grove & Lavenberg 1997:130 [ref. [24023](#)], Chirichigno F. & Vélez D. 1998:73 [ref. [24555](#)], Compagno 1999:498 [ref. [25589](#)], Thomson et al. 2000:284 [ref. [25640](#)], Nelson et al. 2004:57 [ref. [27807](#)], McCosker & Rosenblatt 2010:188 [ref. [30957](#)], Page et al. 2013:57 [ref. [32708](#)], Del Moral-Flores et al. 2016:137 [ref. [34398](#)], Weigmann 2016:146 [ref. [34211](#)], White & Last 2016:747 [ref. [35016](#)]). **Current status:** Valid as *Mobula munkiana* Notarbartolo-di-Sciara 1987. Mobulidae. Distribution: Eastern Pacific. Habitat: marine.

Mobula rochebrunei (Vaillant 1879)

rochebrunei*, *Cephaloptera Vaillant [L. L.] 1879:187 [Bulletin de la Société philomathique de Paris (7th Série) v. 3; ref. [17850](#)] Senegal, western Africa. Holotype (unique): MNHN A-9967 (dry). Type catalog: Bertin 1939:92 [ref. [20739](#)], Séret & McEachran 1986:26 [ref. [9312](#)]. •Synonym of *Mobula mobular* (Bonnaterre 1788) -- (Krefft & Stehmann 1973:77 [ref. [7167](#)]). •Valid as *Mobula rochebrunei* (Vaillant 1879) -- (Notarbartolo-di-Sciara 1987:22 [ref. [9133](#)], McEachran & Seret 1990:75 [ref. [19318](#)], Compagno 1999:498 [ref. [25589](#)], Menni & Stehmann 2000:94 [ref. [24909](#)] as *rochebrunnei*, Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)], McEachran & Carvalho 2003:588 [ref. [26985](#)], Gadig et al. 2003:869 [ref. [27134](#)], Weigmann 2016:146 [ref. [34211](#)], Notarbartolo-di-Sciara & Séret 2016:1438 [ref. [34552](#)]). •Synonym of *Mobula hypostoma* (Bancroft 1831) -- (White & Last 2016:744 [ref. [35016](#)]). **Current status:** Synonym of *Mobula hypostoma* (Bancroft 1831). Mobulidae. Distribution: Eastern Atlantic [if valid]. Habitat: marine.

NOTE by Nomenclature Specialist: synonymy of *Mobula rochebrunei* with *Mobula hypostoma* does not take effect for CITES purposes unless and until specifically adopted by the Conference of Parties through an appropriate nomenclatural standard reference.

Mobula tarapacana (Philippi 1892)

tarapacana*, *Cephaloptera Philippi [R. A.] 1892:8, Pl. 3 (fig. 2) [Anales del Museo Nacional de Chile. Primera seccion, Zoología No. 3; ref. [22759](#)] 12 miles west of Iquique, Tarapacá Province, Chile [southeastern Pacific]. Holotype (unique): whereabouts unknown. Appeared as *Cephaloptera? tarapacana*. On p. 9 of German edition (Philippi 1893 [ref. [14560](#)]). •Valid as *Mobula tarapacana* (Philippi 1892) -- (Notarbartolo-di-Sciara 1987:68 [ref. [9133](#)], Pequeño 1989:17 [ref. [14125](#)], Randall et al. 1990:32 [ref. [15987](#)], Heemstra in Smith & Heemstra 1995:viii [ref. [21953](#)], Allen & Robertson 1994:37 [ref. [22193](#)], McEachran & Notarbartolo-di-Sciara in Fischer et al. 1995:764 [ref. [22829](#)], Castro-Aguirre & Espinosa Pérez 1996:60 [ref. [22793](#)], Grove & Lavenberg 1997:131 [ref. [24023](#)], Childs 1997:39 [ref. [24970](#)], McEachran & Fechhelm 1998:196 [ref. [23897](#)], Chirichigno F. & Vélez D. 1998:73 [ref. [24555](#)], Randall et al. 1997:32 [ref. [25919](#)], Myers 1999:40 [ref. [23965](#)], Compagno & Last 1999:1529 [ref. [24637](#)], Compagno 1999:498 [ref. [25589](#)], Nakabo 2000:186 [ref. [25086](#)], Compagno in Randall & Lim 2000:583 [ref. [25122](#)], Laboute & Grandperrin 2000:104 [ref. [25191](#)], Nakabo 2002:186 [ref. [26001](#)], Feitoza et al. 2003:68 [ref. [26943](#)], Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)] dated 1893, McEachran & Carvalho 2003:589 [ref. [26985](#)], Gadig et al. 2003:869 [ref. [27134](#)], Bonfil & Abdallah 2004:57 [ref. [27735](#)], Nelson et al. 2004:57 [ref. [27807](#)] with date as 1893, Randall 2007:49 [ref. [30952](#)], Fricke et al. 2009:12 [ref. [30213](#)], McCosker & Rosenblatt 2010:188 [ref. [30957](#)], Fricke et al. 2011:348 [ref. [31242](#)], Ho & Shao 2011: 21 [ref. [31432](#)], Page et al. 2013:57 [ref. [32708](#)], Wirtz et al. 2013:117 [ref. [32972](#)], Ebert et al. 2013:370 [ref. [33045](#)], Wirtz et al. 2014:2 [ref. [33516](#)], Psomadakis et al. 2015:109 [ref. [34104](#)], Dylidin 2015:76 [ref. [34524](#)], Del Moral-Flores et al. 2016:137 [ref. [34398](#)], Weigmann 2016:146 [ref. [34211](#)], Duffy & Vogiatzis 2016:141 [ref. [34488](#)], Notarbartolo-di-Sciara & Séret 2016:1439 [ref. [34552](#)], Fourrière et al. 2016:440 [ref. [34668](#)], Del Moral-Flores et al. 2016:606 [ref. [34923](#)], White & Last

2016:748 [ref. [35016](#)]. **Current status:** Valid as *Mobula tarapacana* (Philippi 1892).
Mobulidae. Distribution: Probably circumglobal in tropical seas. Habitat: marine.

coilloti, *Mobula* Cadenat [J.] & Rancurel [P.] 1960:283, Figs. 1-9 [Bulletin de l'Institut
Français d'Afrique Noire (Sér A) Sciences Naturelles v. 22 (no. 1); ref. [11901](#)] About 10
miles south of Iridi, Ivory Coast, western Africa. Holotype (unique): MNHN 1965-0144 (in
5 pieces). Type catalog: Séret & McEachran 1986:26 [ref. [9312](#)]. •Valid as *Mobula coilloti*
Cadenat & Rancurel 1960 -- (Notarbartolo-di-Sciara 1987:68 [ref. [9133](#)], McEachran &
Séret 1990:74 [ref. [19318](#)]). •Synonym of *Mobula tarapacana* (Philippi 1892) -- (Dyldin
2015:76 [ref. [34524](#)] with question, Notarbartolo-di-Sciara & Séret 2016:1439 [ref.
[34552](#)]). **Current status:** Synonym of *Mobula tarapacana* (Philippi 1892). Mobulidae.
Distribution: Eastern Atlantic [if valid]. Habitat: marine.

formosana, *Mobula* Teng [H.-T.] 1962:259, Fig. 74 [Classification and distribution of the
Chondrichthyes of Taiwan; ref. [12623](#)] Keelung, northern Taiwan. Holotype (unique):
TFRI 2911. Type catalog: Ho & Shao 2011:21 [ref. [31432](#)]. •Synonym of *Mobula*
tarapacana (Philippi 1892) -- (Notarbartolo-di-Sciara 1987:68 [ref. [9133](#)], Ho & Shao
2011:21 [ref. [31432](#)], Dyldin 2015:76 [ref. [34524](#)]). **Current status:** Synonym of *Mobula*
tarapacana (Philippi 1892). Mobulidae. Habitat: marine.

Mobula thurstoni (Lloyd 1908)

Mobula thurstoni -- *thurstoni*, *Dicerobatis* Lloyd [R. E.] 1908:179, Fig. 3, Pl. 4 (fig. 2) [Records
of the Indian Museum (Calcutta) v. 2 (pt 2); ref. [14327](#)] India. Syntypes: Madras Museum
(whereabouts unknown). •Valid, but possibly a synonym of *Mobula eregoodoo* (Cantor
1849) -- (Compagno 1999:498 [ref. [25589](#)]). •Valid as *Mobula thurstoni* (Lloyd 1908) --
(Notarbartolo-di-Sciara 1987:36 [ref. [9133](#)], Randall 1994:260 [ref. [21644](#)], Heemstra in
Smith & Heemstra 1995:viii [ref. [21953](#)], Allen & Robertson 1994:37 [ref. [22193](#)], Last &
Stevens 1994:463 [ref. [23873](#)], Randall 1995:51 [ref. [22896](#)], Acero P. & Franke 1995:18
[ref. [22546](#)], McEachran & Notarbartolo-di-Sciara in Fischer et al. 1995:763 [ref. [22829](#)],
Castro-Aguirre & Espinosa Pérez 1996:60 [ref. [22793](#)], Grove & Lavenberg 1997:131 [ref.
[24023](#)], Chirichigno F. & Vélez D. 1998:73 [ref. [24555](#)], Compagno & Last 1999:1529 [ref.
[24637](#)], Compagno in Randall & Lim 2000:583 [ref. [25122](#)], Thomson et al. 2000:284 [ref.
[25640](#)], Gadig & Gomes in Menezes et al. 2003:31 [ref. [27192](#)], Gadig et al. 2003:869 [ref.
[27134](#)], Manilo & Bogorodsky 2003:S94 [ref. [27377](#)], Nelson et al. 2004:57 [ref. [27807](#)],
Compagno et al. 2005:82 [ref. [29145](#)], Allen et al. 2006:208 [ref. [29002](#)], Last et al. 2010:264
[ref. [32461](#)], Page et al. 2013:57 [ref. [32708](#)], Ebert et al. 2013:370 [ref. [33045](#)], Psomadakis
et al. 2015:109 [ref. [34104](#)], Del Moral-Flores et al. 2016:138 [ref. [34398](#)], Weigmann
2016:146 [ref. [34211](#)], Notarbartolo-di-Sciara & Séret 2016:1440 [ref. [34552](#)], White & Last
2016:749 [ref. [35016](#)]). **Current status:** Valid as *Mobula thurstoni* (Lloyd 1908). Mobulidae.
Distribution: Circumglobal in warm seas, including Red Sea. Habitat: marine.

lucasana, *Mobula* Beebe [W.] & Tee-Van [J.] 1938:299, Pls. 1-3 [Zoologica, Scientific
Contributions of the New York Zoological Society v. 23 (pt 3, no. 15); ref. [249](#)] San Lucas
Bay, Baja California, Mexico. Holotype (unique): AMNH 15675-76 [ex NYZS 24793] (in
two pieces). Type catalog: Mead 1958:133 [ref. [20648](#)]. •Valid as *Mobula lucasana*
Beebe & Tee-Van 1938 -- (Eschmeyer & Herald 1983:58 [ref. [9277](#)], Pequeño 1989:17
[ref. [14125](#)], McEachran & Séret 1990:74 [ref. [19318](#)], Nishida 1990:92 [ref. [19783](#)]).
•Synonym of *Mobula thurstoni* (Lloyd 1908) -- (Notarbartolo-di-Sciara 1987:36 [ref.
[9133](#)], McEachran & Notarbartolo-Di-Sciara in Fischer et al. 1995:763 [ref. [22829](#)], Acero
P. & Franke 1995:18 [ref. [22546](#)], Castro-Aguirre & Espinosa Pérez 1996:60 [ref.
[22793](#)]). •Mention -- (Castro-Aguirre & Espinosa Pérez 1996:61 [ref. [22793](#)]). **Current**
status: Synonym of *Mobula thurstoni* (Lloyd 1908). Mobulidae. Habitat: marine.

Extract from

Eschmeyer, W. N., R. Fricke, and R. van der Laan (eds).

CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.

(<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>).

Electronic version accessed 12 May 2017. [This version was edited by Bill Eschmeyer.]

Class Elasmobranchii

Order Myliobatiformes

Family Potamotrygonidae

Genus ***Paratrygon*** Duméril 1865

Paratrygon aiereba (Müller & Henle 1841).

Genus ***Potamotrygon*** Garman 1877

Potamotrygon albimaculata Carvalho 2016

Potamotrygon amandae Loboda & Carvalho 2013

Potamotrygon boesemani Rosa, Carvalho & Almeida Wanderley 2008

Potamotrygon brachyura (Günther 1880)

Potamotrygon constellata (Vaillant 1880)

Potamotrygon falkneri Castex & Maciel 1963

Potamotrygon henlei (Castelnau 1855)

Potamotrygon hystrix (Müller & Henle 1839)

Potamotrygon humerosa Garman 1913

Potamotrygon jabuti Carvalho 2016

Potamotrygon leopoldi Castex & Castello 1970

Potamotrygon limai Fontenelle, da Silva & Carvalho 2014

Potamotrygon magdalenae (Duméril 1865)

Potamotrygon marinae Deynat 2006

Potamotrygon motoro (Müller & Henle 1841)

Potamotrygon ocellata (Engelhardt 1912)

Potamotrygon orbignyi (Castelnau 1855)

Potamotrygon pantanensis Loboda & Carvalho 2013

Potamotrygon rex Carvalho 2016

Potamotrygon schroederi Fernández-Yépez 1958

Potamotrygon schuhmacheri Castex 1964

Potamotrygon scobina Garman 1913

Potamotrygon signata Garman 1913

Potamotrygon tatiánae Silva & Carvalho 2011

Potamotrygon tigrina Carvalho, Sabaj Pérez & Lovejoy 2011

Potamotrygon wallacei Carvalho, Rosa & Araújo 2016

Potamotrygon yepezi Castex & Castello 1970

Genus ***Paratrygon*** Duméril 1865

Paratrygon Duméril [A. H. A.] 1865:594 [ref. [1150](#)]. Fem. *Trygon aiereba* Müller & Henle 1841. Type by monotypy. Preoccupied by *Anacanthus* Ehrenberg 1833, but *Paratrygon* Duméril 1865 in prevailing usage. •Valid as *Paratrygon* Duméril 1865 -- (Rosa et al. 1987:447 [ref. [5974](#)], Rosa 1991:426 [ref. [30634](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)], Carvalho & Lovejoy 2011:18 [ref. [31182](#)], Carvalho et al. 2011:1 [ref. [31264](#)], Carvalho & Ragno 2011:135 [ref. [31309](#)], Frederico et al. 2012:71 [ref. [31909](#)], Carvalho et al. 2016:203 [ref. [34827](#)], Carvalho 2016:620 [ref. [34997](#)]). **Current status:** Valid as *Paratrygon* Duméril 1865.
Potamotrygonidae: Potamotrygoninae.

Anacanthus Ehrenberg [C. G.] in van der Hoeven 1832:179 [ref. [5061](#)]. Masc. *Raja orbicularis* Bloch & Schneider 1801. Type by monotypy. Type species inferred from 'Les Anacanthus' of Ehrenberg in Cuvier 1829:400 [ref. [995](#)] which appeared with

vernacular name only. Not; preoccupied by *Anacanthus* Gray 1830. Unneeded replacement by *Rhachinotus* Cantor 1849. •Synonym of *Paratrygon* Duméril 1865. Current status: Synonym of *Paratrygon* Duméril 1865. Potamotrygonidae: Potamotrygoninae.

Disceus Garman [S.] 1877:208 [ref. [1528](#)]. Masc. *Trygon stroglyopterus* Schomburgk 1843. Type by monotypy. Based on a misidentified type species according to Castex 1964:33 [ref. [20924](#)] and Fowler 1970:571 [ref. [7313](#)], Garman's specimens are *Disceus thayeri* Garman 1913. •Synonym of *Elipesurus* Schomburgk 1843 -- (Fowler 1970:571 [ref. [7313](#)]). •Valid as *Disceus* Garman 1877 -- (Castex 1964:18 [ref. [20924](#)]). •Synonym of *Paratrygon* Duméril 1865 -- (Rosa 1991:426 [ref. [30634](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Carvalho & Lovejoy 2011:18 [ref. [31182](#)]). Current status: Synonym of *Paratrygon* Duméril 1865. Potamotrygonidae: Potamotrygoninae.

Paratrygon aiereba (Müller & Henle 1841).

aiereba*, *Trygon Müller [J.] & Henle [F. G. J.] (ex Marcgravus) 1841:160 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Brazil. No types known. Appeared as doubtful species, "(Dubia) *Trygon Aiereba*." Unneeded replacement name for *Raja ajereba* Walbaum 1792; based on the same source, the 'Aiereba' of Marcgravus 1648:175, fig. [ref. [30371](#)], *Raja orbicularis* Bloch & Schneider 1801 and other literature sources. It is suggested that prevailing usage favors retaining spelling and authorship as *aiereba* Müller & Henle. •Validity doubted -- (Castex 1964:17 [ref. [20924](#)] as *Paratrygon aiereba* with author and date as Walbaum 1792). •Valid as *Paratrygon aiereba* (Müller & Henle 1841) -- (Ortega & Vari 1986:6 [ref. [9708](#)] as *Paratrygon aieraba*, Rosa 1992:425 [ref. [30634](#)], Lasso et al. 1997:43 [ref. [23139](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)], Frederico et al. 2012:72 [ref. [31909](#)], Sarmiento et al. 2014:116, 188 [ref. [35004](#)], Weigmann 2016:154 [ref. [34211](#)] see remarks, Carvalho 2016:59 [ref. [34730](#)], Carvalho 2016:624 [ref. [34997](#)]). **Current status:** Valid as *Paratrygon aiereba* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Distribution: Amazon River and Orinoco River basins, Brazil and Bolivia. Habitat: freshwater.

sloani, *Raja* Stephan [C. F.] 1779:20 [De rajis, schediasma primum; ref. [18818](#)] Lectotype selected by Kottelat 2010:66 [ref. [30995](#)] as the figure of "*aiereba brasiliensis*" of Marcgrave (1648:175). Kottelat also designated the specimen shown in the same figure to be the lectotype for *ajereba*. Then *ajereba* is declared a nomen protectum under Article 23.9.1 and *sloani* as a nomen oblitum. See Kottelat for details. •Synonym of *Paratrygon ajereba* (Walbaum 1792) of a later date -- (Kottelat 2010:64 [ref. [30995](#)]). Current status: Synonym of *Paratrygon ajereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: marine.

ajereba, *Raja* Walbaum [J. J.] (ex Marcgravus) 1792:535 [Petri Artedi sueci genera piscium Part 3; ref. [4572](#)] Brazil. No types known. Based on the 'Aiereba' of Marcgrave 1648:175, fig. [ref. [30371](#)]. See also *Trygon aiereba* Müller & Henle 1841. Castex 1964:16 [ref. [20924](#)] considered it the same. The spelling *ajereba* is correct, but prevailing usage favors continuing the spelling and authorship as *aiereba* Müller & Henle. •Valid as *Paratrygon aiereba* (Walbaum 1792) -- (Castex 1964:16 [ref. [20924](#)]). •Valid as *Paratrygon aiereba* (Müller & Henle 1841) -- (Ortega & Vari 1986:6 [ref. [9708](#)] as *Paratrygon aieraba*, Lasso et al. 1997:43 [ref. [23139](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)], Frederico et al. 2012:72 [ref. [31909](#)] as *aiereba*). Current status: Synonym of *Paratrygon aiereba* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Distribution: Amazon River and Orinoco River basins: Bolivia, Brazil, Ecuador, Peru and Venezuela [if treated with this spelling and authorship]. Habitat: freshwater.

orbicularis, *Raja* Bloch [M. E.] & Schneider [J. G.] (ex Marcgravus) 1801:361 [M. E. Blochii, *Systema Ichthyologiae*; ref. [471](#)] South America. No types known. Unneeded replacement name for *Raja ajereba* Walbaum 1792; based on the same source, the 'Aiereba' of Marcgravus 1648:175, fig. [ref. [30371](#)]. •Synonym of *Paratrygon ajereba* (Müller & Henle 1841 [sic]) -- (Castex 1964:16 [ref. [20924](#)]). Current status: Synonym of *Paratrygon ajereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

stroglyopterus, *Trygon* Jardine [W.] in Schomburgk 1843:183, Pl. 22 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Rio Branco, South America. No types known. Spelled *strongylopterus* in Garman 1877 [ref. [1528](#)] and other early works. •Valid as *Potamotrygon stroglyopterus* (Jardine 1843) -- (Castex 1964:22 [ref. [20924](#)] as *strongylopterus* with author as Schomburgk). •Synonym of *Paratrygon ajereba* (Müller & Henle 1841) -- (Rosa 1992:427 [ref. [30634](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)]). •Synonym of *Paratrygon ajereba* (Walbaum 1792). Current status: Synonym of *Paratrygon ajereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

thayeri, *Disceus* Garman [S.] 1913:426, Pls. 34, 54 (2), 57 (2), 70 (3-4) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Obidos, Manaus [Manaus], and Pará, Brazil. Syntypes: MCZ 297-S (1) Manaus, 563-S (1) Rio Pará, 606-S (1) Obidos. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. •Synonym of *Paratrygon aiereba* (Müller & Henle 1841) -- (Rosa 1992:425 [ref. [30634](#)], Hartel & Dingerkus 1997:xxvi [ref. [23119](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)]). •Mention -- (Castex 1964:33 [ref. [20924](#)]). •Synonym of *Paratrygon ajereba* (Walbaum 1792). Current status: Synonym of *Paratrygon ajereba* (Walbaum 1792). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

Genus *Potamotrygon* Garman 1877

Potamotrygon Garman [S.] 1877:210 [ref. [1528](#)]. Fem. *Pastinaca humboldtii* Roulin in Lesson 1829. Type by subsequent designation. Type given as *hystrix* as designated by Jordan 1919:389 [ref. [4904](#)] by Séret & McEachran 1986:6 [ref. [9312](#)]; Garman treated *hystrix* as a synonym of *humboldtii*. Eigenmann 1910 says type is *humboldtii* Roulin. •Valid as *Potamotrygon* Garman 1877 -- (Castex 1964:18 [ref. [20924](#)], Rosa et al. 1987:447 [ref. [5974](#)], Nishida 1990:98 [ref. [19783](#)], Britski et al. 1999:21 [ref. [24147](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)] with type as *hystrix*, Deynat 2006:484 [ref. [28948](#)], Rosa et al. 2008:1 [ref. [29564](#)], Oddone et al. 2008:69 [ref. [29661](#)],/Carvalho & Lovejoy 2011:45 [ref. [31182](#)], Carvalho et al. 2011:1 [ref. [31264](#)], Carvalho & Ragno 2011:135 [ref. [31309](#)], Silva & Carvalho 2011:140 [ref. [31310](#)], Ng et al. 2011:2385 [ref. [31474](#)], Oddone et al. 2012:299 [ref. [31835](#)], Frederico et al. 2012:72 [ref. [31909](#)], Kottelat 2013:28 [ref. [32989](#)], Loboda & Carvalho 2013:693 [ref. [33024](#)], Fontenelle et al. 2014:249 [ref. [33180](#)], Silva & Carvalho 2015:5 [ref. [33871](#)], Carvalho et al. 2016:566 [ref. [34422](#)], Carvalho 2016:537 [ref. [34666](#)], Carvalho 2016:5 [ref. [34730](#)], Bertaco et al. 2016:411 [ref. [34561](#)], Carvalho et al. 2016:203 [ref. [34827](#)], Carvalho 2016:620 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon* Garman 1877. Potamotrygonidae: Potamotrygoninae.

albimaculata, *Potamotrygon* Carvalho [M. R. de] 2016:6, Figs. 1-20 [Zootaxa 4167 (no. 1); ref. [34730](#)] Left bank of rio Teles Pires near Pousada Santa Rosa, rio Tapajós basin, Mato Grosso state, Brazil, 08°46'45"S, 57°27'55"W. Holotype: MZUSP 105016. Paratypes: MZUSP. Plus non-type material. •Valid as *Potamotrygon albimaculata* Carvalho 2016 -- (Carvalho 2016:627 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon albimaculata* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. Distribution: Rio Tapajós basin, Brazil. Habitat: freshwater.

amandae*, *Potamotrygon Loboda [T. S.] & Carvalho [M. R. de] 2013:723, Figs. 38-52 [Neotropical Ichthyology v. 11 (no. 4); ref. [33024](#)] Paraguai River, subdistrict of Albuguerque, district of Corumbá, State of Mato Grosso de Sul, 19°41'S, 57°38'W, Brazil. Holotype: MZUSP 110910. Paratypes: (12) MZUSP. Plus non-type specimens. •Valid as *Potamotrygon amandae* Loboda & Carvalho 2013 -- (Koerber 2014:1 [ref. [33621](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:154 [ref. [34211](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:628 [ref. [34997](#)], Loboda 2016:2 [ref. [35085](#)], Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon amandae* Loboda & Carvalho 2013. Potamotrygonidae: Potamotrygoninae. Distribution: Paraná-Paraguay basin and Tietê River: Bolivia, Brazil, Paraguay and Argentina. Habitat: freshwater.

boesemani*, *Potamotrygon Rosa [R. S.], Carvalho [M. R. de] & Almeida Wanderley [C. de] 2008:2, Figs. 1-6, 8 [Neotropical Ichthyology v. 6 (no. 1); ref. [29564](#)] Matapi Creek, ca. 1 kilometer from Corantii River, Nickerie District, Suriname, 5°00'N, 57°16'W. Holotype: USNM 225574. Paratypes: USNM 225216 (1), 225575 (1), 388849 (1). Plus non-type specimens. •Valid as *Potamotrygon boesemani* Rosa, Carvalho & Almeida Wanderley 2008 -- (Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:341 [ref. [33180](#)], Weigmann 2016:154 [ref. [34211](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:629 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon boesemani* Rosa, Carvalho & Almeida Wanderley 2008. Potamotrygonidae: Potamotrygoninae. Distribution: Corantijn River drainage, Suriname. Habitat: freshwater.

brachyurus*, *Trygon Günther [A.] 1880:8 [Annals and Magazine of Natural History (Series 5) v. 6 (no. 31) (art. 2); ref. [14279](#)] Buenos Aires, Argentina. Holotype (unique): BMNH 1953.8.10.14 [ex BMNH 1879.2.12.4]. •Synonym of *Elipesurus spinicauda* Jardine & Schomburgk 1843 -- (Castex 1968:353 [ref. [26357](#)]). •Valid as *Potamotrygon brachyura* (Günther 1880) -- (Castex 1964:24 [ref. [20924](#)] as *brachyurus*, Britski et al. 1999:21 [ref. [24147](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)], López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Oddone et al. 2008:69 [ref. [29661](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Oddone et al. 2012:300 [ref. [31835](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:154 [ref. [34211](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Bertaco et al. 2016:411 [ref. [34561](#)], Carvalho 2016:630 [ref. [34997](#)], Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon brachyura* (Günther 1880). Potamotrygonidae: Potamotrygoninae. Distribution: Paraná-Paraguay and Uruguay River basins: Argentina, Brazil, Paraguay and Uruguay. Habitat: freshwater.

brumi*, *Potamotrygon Devincenzi [G. J.] in Devincenzi & Teague 1942:99, Pl. 6 [Anales del Museo Nacional de Historia Natural de Montevideo (Serie 2) v. 5 (no. 4); ref. [12268](#)] Isla Queguay Grande, River Uruguay, Uruguay. Holotype (unique): MHNM (not found). Type catalog: Olazarri et al. 1970:2 [ref. [23527](#)], Loureiro et al. 2016:413 [ref. [35150](#)]. •Valid as *Potamotrygon brumi* Devincenzi 1942 -- (Castex 1964:29 [ref. [20924](#)], Sverlij et al. 1998:7 [ref. [27632](#)]). •Synonym of *Potamotrygon brachyura* (Günther 1880) -- (Carvalho et al. in Reis et al. 2003:23 [ref. [27061](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:154 [ref. [34211](#)] with authorship as Devincenzi & Teague, Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Synonym of *Potamotrygon brachyura* (Günther 1880). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

constellata*, *Taeniura Vaillant [L. L.] 1880:251, 252 [Bulletin de la Société philomathique de Paris (7th Série) v. 4; ref. [17854](#)] Calderon, Upper Amazon, Brazil. Holotype (unique): MNHN A-1010. Type catalog: Bertin 1939:87 [ref. [20739](#)], Séret & McEachran 1986:20 [ref. [9312](#)]. •Valid as *Potamotrygon constellata* (Vaillant 1880) -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Weigmann 2016:154 [ref. [34211](#)], Carvalho 2016:6 [ref. [34730](#)] with question, Carvalho 2016:631 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon constellata* (Vaillant 1880). Potamotrygonidae: Potamotrygoninae. Distribution: Amazon and Solimões River basins: Brazil and Colombia. Habitat: freshwater.

- circularis*, *Potamotrygon* Garman [S.] 1913:419, Pls. 31 (1-2), 54 (1), 70 (1-2) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Río Solimões, Tefé and Lago Coari [on Río Solimões], Brazil. Syntypes: MCZ 291-S (1) Tefé, 295-S (1) Coari. Non-type: MCZ 296-S (1). Type catalog: Hartel & Dingerkus 1997:xliii-xliv [ref. [23119](#)]. Castex 1964:28 [ref. [20924](#)] said there was a holotype and a paratype at MCZ. •Valid as *Potamotrygon circularis* Garman 1913 -- (Castex 1964:27 [ref. [20924](#)]). •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (in part, authors, Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)]). •Synonym of *Potamotrygon constellata* (Vaillant 1880) -- (in part, authors, Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Weigmann 2016:154 [ref. [34211](#)] see remarks, Carvalho 2016:55 [ref. [34730](#)]). Current status: Synonym of *Potamotrygon constellata* (Vaillant 1880). Potamotrygonidae: Potamotrygoninae. Distribution: South America. Habitat: freshwater.
- falkneri*, *Potamotrygon*** Castex [M. N.] & Maciel [I.] 1963:56 [Anales del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Sante Fe, Zoología v. 2 (no. 1); ref. [8015](#)] Río Paraná medio, Entre Ríos, Argentina. Holotype: MFA 235. Paratypes: MFA 279 (1). Type information from Castex 1964:32 [ref. [20924](#)] who said female holotype and male allotype, but original description said both were females. •Valid as *Potamotrygon falkneri* Castex & Maciel 1963 -- (Castex 1964:31 [ref. [20924](#)], Gómez & Chebez 1996:46 [ref. [23791](#)], Britski et al. 1999:21 [ref. [24147](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Silva & Carvalho 2011:151 [ref. [31310](#)], Koerber 2014:1 [ref. [33621](#)], Sarmiento et al. 2014:117, 188 [ref. [35004](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:155 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:632 [ref. [34997](#)], Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. Distribution: Paraná-Paraguay River basin: Argentina, Brazil, Bolivia, Paraguay and Peru. Habitat: freshwater.
- menchacai*, *Potamotrygon* Martínez Achenbach [G.] 1967:1, Pls. 1-3 (pp. 6-8) [Comunicações del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Zoología No. 1; ref. [26257](#)] Río Colastiné, Paraná Média, Santa Fe Province, Argentina. Holotype: MFA 289. See Carvalho 2001:1168 [ref. [26256](#)]. •Synonym of *Potamotrygon falkneri* Castex & Maciel 1963 -- (authors, Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:155 [ref. [34211](#)]). Current status: Synonym of *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.
- castexi*, *Potamotrygon* Castello [H. P.] & Yagolkowski [D. R.] 1969:2, Pl.; Figs. 1-3, 7 [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 6; ref. [7804](#)] Río Paraná, Rosario, Argentina. Holotype: MACN 5777 (apparently lost). Paratypes: ILAFIR 100 (1), MFA 288 (1). •Valid as *Potamotrygon castexi* Castello & Yagolkowski 1969 -- (Ortega & Vari 1986:6 [ref. [9708](#)], Nishida 1990:92 [ref. [19783](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Carvalho & Lovejoy 2011:46 [ref. [31182](#)]). •Synonym of *Potamotrygon falkneri* Castex & Maciel 1963 -- (Carvalho et al. 2011:26 [ref. [31264](#)], Koerber 2014:1 [ref. [33621](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:155 [ref. [34211](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon falkneri* Castex & Maciel 1963. Potamotrygonidae: Potamotrygoninae. Distribution: Upper Amazon River and Paraná-Paraguay River basins: Argentina, Bolivia, Brazil, Paraguay and Peru [if valid]. Habitat: freshwater.
- henlei*, *Trygon* (*Taenura*)** Castelnau [F. L.] 1855:102, Pl. 48 (fig. 3) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Tocantins, Brazil. Holotype (unique): MNHN 0000-2353 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1986:21 [ref. [9312](#)]. Name listed as *Taenura henlei* on figure caption. •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)]). •Valid as *Potamotrygon henlei* (Castelnau 1855) -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24

[ref. [27061](#)], Rosa et al. 2008:8 [ref. [29564](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:341 [ref. [33180](#)], Weigmann 2016:155 [ref. [34211](#)], Carvalho 2016:560 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:633 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon henlei* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Distribution: Tocantins River basin, Brazil. Habitat: freshwater.

hystrix, Trygon Müller [J.] & Henle [F. G. J.] in Valenciennes 1839:Pl. 15 [Voyage dans l'Amérique méridionale; ref. [20720](#)] Buenos Aires, Argentina. Lectotype: MNHN A.2249. Paralectotypes: (5) MNHN A-2433 (1), ?A-2434 (2), A-8706 (lost); RMNH 4258 (1). Bertin 1939:88-89 [ref. [20739](#)], Seret & McEachran 1986:21 [ref. [9312](#)]. Later described in more detail by Müller & Henle 1841:167 [ref. [3069](#)]. Also in Valenciennes 1847:11 [ref. [5010](#)] as *Trygon hystrix* with wrong plate number. Pl. 15 was published in 1839. Lectotype selected by Castex 1969:8 [ref. [9548](#)]. •Synonym of *Potamotrygon magdalenae* (Duméril 1865) -- (Galvis et al. 1997:25 [ref. [23651](#)]). •Valid as *Potamotrygon hystrix* (Müller & Henle 1839) (also seen as 1841) -- (Castex 1964:19 [ref. [20924](#)], Nishida 1990:92 [ref. [19783](#)], Planquette et al. 1996:40 [ref. [22818](#)], López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Mirande & Koerber 2015:8 [ref. [35117](#)]). •Valid as *Potamotrygon hystrix* (Müller & Henle 1839) (also seen as 1834) -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Deynat 2006:492 [ref. [28948](#)], Rosa et al. 2008:6 [ref. [29564](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Sarmiento et al. 2014:117, 188 [ref. [35004](#)], Weigmann 2016:155 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)] dated 1836, Carvalho 2016:634 [ref. [34997](#)] dated 1836, Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon hystrix* (Müller & Henle 1839). Potamotrygonidae: Potamotrygoninae. Distribution: Paraná-Paraguay basin, Argentina, Brazil, Bolivia and Paraguay. Habitat: freshwater.

hystrix, Trygon Müller [J.] & Henle [F. G. J.] 1841:167 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Buenos Aires, Argentina. Lectotype: MNHN A-2449. Paralectotypes: (5) MNHN A-2433 (1), ?A-2434 (2), A-8706 (lost); RMNH 4258 (1). Type catalog: Bertin 1939:88-89 [ref. [20739](#)], Séret & McEachran 1986:21 [ref. [9312](#)]. Species dates to an earlier published Plate as *hystrix*. Lectotype selected by Castex 1969:8 [ref. [9548](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. •Objective synonym of *Potamotrygon hystrix* (Müller & Henle 1839) -- (Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)]). Current status: Synonym of *Potamotrygon hystrix* (Müller & Henle 1839). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

humboldtii, Pastinaca Roulin [F. D.] 1829:465 [Bulletin des Sciences Naturelles et de Géologie (Férussac), Paris v. 16 (no. 3) (art. 365); ref. [26350](#)] Rio Meta, Ecuador. Syntypes (2). Treats as Roulin in Lesson 1829 by Kottelat 2013. Previously appeared as 'Pastenague de Humboldt' in Annales des Sciences Naturelles, v. 16:625. Also appeared as a German translation in Isis (Oken), 1834:1042 as *Pastenaca Humboldtii*. •Synonym of *Potamotrygon hystrix* (Müller & Henle 1841) -- (Castex 1964:19 [ref. [20924](#)] with reference to Garman 1878 [1877]). •Senior synonym of *Potamotrygon hystrix* (Müller & Henle 1841) in Garman 1877. •Status uncertain -- (Carvalho et al. in Reis et al. 2003:26 [ref. [27061](#)] but with a Roulin in Duméril 1865 and Duméril 1865 records, and spelled *hystrix*, Koerber et al. 2017:10 [ref. [35267](#)]). •Nomen dubium -- (Silva & Carvalho 2015:35 [ref. [33871](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:155 [ref. [34211](#)] see remarks). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

humerosus, Potamotrygon Garman [S.] 1913:419 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Parietuba at Monte Alegre, Pará, Brazil. Holotype (unique): MCZ 299-S. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. Castex 1964:27 [ref. [20924](#)] said there was a holotype and a paratype at MCZ. •Synonym of *Potamotrygon orbignyi* (Castelnau 1855) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)]). •Valid as *Potamotrygon humerosa* Garman 1913 -- (Castex 1964:26 [ref. [20924](#)] as *humerosus*, Hartel & Dingerkus 1997:xix [ref. [23119](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:150 [ref. [33180](#)], Silva & Carvalho 2015:45 [ref. [33871](#)], Weigmann 2016:155 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:59 [ref. [34730](#)], Carvalho 2016:635 [ref. [34997](#)]). **Current status:** Valid as

Potamotrygon humerosa Garman 1913. Potamotrygonidae: Potamotrygoninae.
Distribution: Amazon River and effluents: Brazil. Habitat: freshwater.

jabuti, *Potamotrygon* Carvalho [M. R. de] 2016:28, Figs. 22-45 [Zootaxa 4167 (no. 1); ref. [34730](#)] Rio Jamanxim near Novo Progresso, rio Tapajós basin, Pará state, Brazil, 07°09'30"S, 55°25'55"W. Holotype: MZUSP 105023. Paratypes: MZUSP. Plus non-type material. •Valid as *Potamotrygon jabuti* Carvalho 2016 -- (Carvalho 2016:636 [ref. [34997](#)]).
Current status: Valid as *Potamotrygon jabuti* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. Distribution: Rio Tapajós basin, Brazil. Habitat: freshwater.

leopoldi, *Potamotrygon* Castex [M. N.] & Castello [H. P.] 1970:2, Fig. 5; Pls. [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 10; ref. [7722](#)] Little creek on the right shore of Upper Rio Xingú, Mato Grosso state, Brazil. Holotype (unique): IRSNB 475. Type catalog: Walschaerts 1987:6 [ref. [20755](#)]. •Valid as *Potamotrygon leopoldi* Castex & Castello 1970 -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Rosa et al. 2008:8 [ref. [29564](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:341 [ref. [33180](#)], Weigmann 2016:155 [ref. [34211](#)], Carvalho 2016:561 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:637 [ref. [34997](#)]).
Current status: Valid as *Potamotrygon leopoldi* Castex & Castello 1970. Potamotrygonidae: Potamotrygoninae. Distribution: Xingú River basin, Brazil. Habitat: freshwater.

limai, *Potamotrygon* Fontenelle [J. P.], da Silva [J. P. C. B.] & Carvalho [M. R. de] 2014:150, Figs. 1-17 [Zootaxa 3765 (no. 3); ref. [33180](#)] Madeira River basin, Jamari River, Represa Samuel, municipal district of Itapoã do Oeste, upper Amazon Basin, state of Rondônia, Brazil, 9°4'33.96" S, 63°18'17.64"S. Holotype: MZUSP 103031. Paratypes: MZUSP 103031 (1), 104040 (1), 104041 (1). Plus non-type material. •Valid as *Potamotrygon limai* Fontenelle, da Silva & Carvalho 2014 -- (Weigmann 2016:155 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:638 [ref. [34997](#)]).
Current status: Valid as *Potamotrygon limai* Fontenelle, da Silva & Carvalho 2014. Potamotrygonidae: Potamotrygoninae. Distribution: Madeira River system, Brazil. Habitat: freshwater.

magdalenae, *Taeniura* Duméril [A. H. A.] (ex Valenciennes) 1865:625 [Histoire naturelle des poissons ou ichthyologie générale v. 1; ref. [1150](#)] Río Magdalena, Colombia. Holotype (unique): MNHN A-2368. Type catalog: Séret & McEachran 1986:21 [ref. [9312](#)]. We treat authorship as Duméril (ex Valenciennes), not Valenciennes in Duméril. •Valid as *Potamotrygon magdalenae* (Duméril 1865) -- (Castex 1964:23 [ref. [20924](#)], Nishida 1990:92 [ref. [19783](#)], Galvis et al. 1997:25 [ref. [23651](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)] with author as Valenciennes, Carvalho et al. 2011:26 [ref. [31264](#)] with author as Valenciennes, Weigmann 2016:156 [ref. [34211](#)] with authorship as Valenciennes, Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:639 [ref. [34997](#)]).
Current status: Valid as *Potamotrygon magdalenae* (Duméril 1865). Potamotrygonidae: Potamotrygoninae. Distribution: Magdalena and Atrato River basins, Colombia. Habitat: freshwater.

marinae, *Potamotrygon* Deynat [P. P.] 2006:485, Figs. 1-5 [Comptes Rendus Biologies v. 329; ref. [28948](#)] Maroni River, 3°28'58"N, 53°42'W, French Guiana. Holotype: MNHN 1998-0119. Paratypes: MNHN 1998-1811 (1), 1998-2006 (1), 2003-0020 (1), 2006-0750 (1). •Valid as *Potamotrygon marinae* Deynat 2006 -- (Carvalho et al. 2011:26 [ref. [31264](#)], Silva & Carvalho 2015:66 [ref. [33871](#)], Weigmann 2016:156 [ref. [34211](#)], Carvalho et al. 2016:582 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:640 [ref. [34997](#)]).
Current status: Valid as *Potamotrygon marinae* Deynat 2006. Potamotrygonidae: Potamotrygoninae. Distribution: French Guiana and Suriname. Habitat: freshwater.

motoro, *Taeniura* Müller [J.] & Henle [F. G. J.] (ex Natterer) 1841:197 [Systematische Beschreibung der Plagiostomen; ref. [3069](#)] Lectotype locality: Guaporé River, district of Vila Bela Santíssima Trindade, Mato Grosso State, Brazil. Lectotype: NMW 78655. Paralectotypes: NMW 77987 (1), 78613 (1); ZMB 4662 (1). Type catalog: Paepke & Schmidt

1988:181 [ref. [21041](#)]. Evidently Müller & Henle alone were responsible for the description, so authorship is regarded as Müller & Henle (ex Natterer). Lectotype selected by Loboda & Carvalho 2013:699 [ref. [33024](#)]. •Valid as *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)], Ortega & Vari 1986:6 [ref. [9708](#)], Nishida 1990:92 [ref. [19783](#)], Gómez & Chebez 1996:46 [ref. [23791](#)], Sverlij et al. 1998:6 [ref. [27632](#)], Britski et al. 1999:21 [ref. [24147](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Rosa et al. 2008:8 [ref. [29564](#)], Carvalho & Lovejoy 2011:46 [ref. [31182](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Silva & Carvalho 2011:151 [ref. [31310](#)], Ng et al. 2011:2385 [ref. [31474](#)], Oddone et al. 2012:300 [ref. [31835](#)], Naylor et al. 2012:79 [ref. [34345](#)] see remarks, Kottelat 2013:29 [ref. [32989](#)], Loboda & Carvalho 2013:695 [ref. [33024](#)], Fontenelle et al. 2014:341 [ref. [33180](#)], Koerber 2014:1 [ref. [33621](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Sarmiento et al. 2014:117, 188 [ref. [35004](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:156 [ref. [34211](#)] see remarks, Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:59 [ref. [34730](#)], Bertaco et al. 2016:411 [ref. [34561](#)], Carvalho 2016:641 [ref. [34997](#)], Koerber et al. 2017:10 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Distribution: Widespread in South America; established in one reservoir in Singapore. Habitat: freshwater.

garrapa, *Trygon* Jardine [W.] in Schomburgk 1843:182, Pl. 21 [The natural history of fishes of Guiana.--Part II; ref. [3948](#)] Rio Branco, South America. Holotype: ZMB 4624. Type catalog: Paepke & Schmidt 1988:181 [ref. [21041](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)], Litz & Koerber 2014:5 [ref. [33622](#)] with question, Mirande & Koerber 2015:8 [ref. [35117](#)] with question, Weigmann 2016:156 [ref. [34211](#)], Koerber et al. 2017:10 [ref. [35267](#)] with question). •Status uncertain -- (Carvalho et al. in Reis et al. 2003:26 [ref. [27061](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

adans, *Trygon* Schomburgk [R. H.] in Müller & Trochel 1849 [Reisen in Britisch-Guiana; ref. [3072](#)] Takutu and Rio Branco, South America. Unneeded replacement for *Trygon garrapa* Jardine in Schomburgk 1843:182, Pl. 21 [ref. [3948](#)]. Not treated by Carvalho et al. in Reis et al. 2003 [ref. [27061](#)]. •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

mulleri, *Trygon* (*Taenura*) Castelnau [F. L.] 1855:102, Pl. 48 (fig. 2) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Crixas and Rio Araguay, Brazil. Syntypes: MNHN 0000-2354 (1, poor condition) Rio Araguay, Brazil. Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1986:21 [ref. [9312](#)]. Name listed as *Taenura mulleri* on figure caption. Castex 1964:21 [ref. [20924](#)] referred to MNHN 2354 as holotype (poor condition) but it may be a syntype. •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)], Carvalho et al. in Reis et al. 2003:24 [ref. [27061](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:156 [ref. [34211](#)], Carvalho 2016:561 [ref. [34666](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

laticeps, *Potamotrygon* Garman [S.] 1913:417, Pls. 31 (figs. 3-4), 55 (fig. 6) [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Obidos, Brazil. Holotype: MCZ 605-S. Non-types: MCZ 290-S (1), USNM 153588 [ex MCZ 301-S] (1). Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. We follow Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)] in treating a holotype. •Valid as *Potamotrygon laticeps* Garman 1913 -- (Castex 1964:28 [ref. [20924](#)], Hartel & Dingerkus 1997:xix [ref. [23119](#)]). •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:156 [ref. [34211](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status:

Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

alba, *Potamotrygon* Castex [M. N.] 1963:55 [Anales del Museo Provincial de Ciencias Naturales "Florentino Ameghino," Sante Fe, Zoología v. 2 (no. 1); ref. [20925](#)] Ascunción, Paraguay River, Paraguay. Syntypes: (3) whereabouts unknown. •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Castex 1964:20 [ref. [20924](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], López et al. 2003:6 [ref. [27366](#)], Carvalho & Ragno 2011:135 [ref. [31309](#)], Loboda & Carvalho 2013:713 [ref. [33024](#)] as nomen dubium related to *motoro*, Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

labradori, *Potamotrygon* Castex [M. N.] in Castex, Maciel & Martínez Achenbach 1963:117, Fig. 1 [Neotropica (La Plata) v. 9 (no. 30); ref. [26348](#)] Río Colastiné (middle Río Paraná), Santa Fe, Argentina. Holotype (unique): MFA 231. Information on type locality and type specimen taken from Castex 1964:31 [ref. [20924](#)]. Appeared as a nomen nudum as *labratori* in an earlier 1963 Castex paper (see Carvalho, Lovejoy & Rosa in Reis et al. 2003:25 [ref. [27061](#)]). •Valid as *Potamotrygon labradori* Castex 1963 -- (Castex 1964:31 [ref. [20924](#)] with other authors). •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Loboda & Carvalho 2013:699, 712 [ref. [33024](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:156 [ref. [34211](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

pauckei, *Potamotrygon* Castex [M. N.] 1963:291, Figs. [Boletín de la Academia Nacional de Ciencias (Córdoba) v. 43 (no. 2-4); ref. [1482](#)] Río Paraná, near city of Santa Fe, Argentina. Lectotype: MFA 232. Paralectotypes: (5) MFA 245. No holotype established in original description; two "paratypes" were described in Castex & Yagolkowski 1970 [ref. [9550](#)]. Appeared as a nomen nudum as *labratori* in an earlier 1963 Castex paper (see Carvalho, Lovejoy & Rosa in Reis et al. 2003:25 [ref. [27061](#)]). •Valid as *Potamotrygon pauckei* Castex 1963 -- (López et al. 2003:6 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Loboda & Carvalho 2013:699 [ref. [33024](#)], Koerber 2014:1 [ref. [33621](#)]). •Synonym of *Potamotrygon motoro* (Müller & Henle 1841) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Litz & Koerber 2014:5 [ref. [33622](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:156 [ref. [34211](#)], Koerber et al. 2017:10 [ref. [35267](#)]). Current status: Synonym of *Potamotrygon motoro* (Müller & Henle 1841). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

***ocellata*, *Trygon hystrix* var.** Engelhardt [R.] 1912:647 [Zoologischer Anzeiger v. 39 (nos 21/22); ref. [17459](#)] Southern shore of Mexiana, Brazil. Holotype (unique): ZSM [old collection] destroyed in WWII. Type catalog: Neumann 2006:279 [ref. [28925](#)] •Valid as *Potamotrygon ocellata* (Engelhardt 1912) -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Carvalho et al. 2011:2 [ref. [31264](#)] with question, Fontenelle et al. 2014:150 [ref. [33180](#)] with question, Weigmann 2016:157 [ref. [34211](#)] see remarks, Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)] with question, Carvalho 2016:642 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon ocellata* (Engelhardt 1912). Potamotrygonidae: Potamotrygoninae. Distribution: Amapá and Pará, Brazil. Habitat: freshwater.

orbignyi*, *Trygon (Taenura) Castelnau [F. L.] 1855:102, Pl. 49 (fig. 1) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Tocantins, Brazil. Holotype (unique): MNHN 0000-2333 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1986:22 [ref. [9312](#)]. Originally as *d'orbignyi* but listed as *Toenura orbignyi* on figure caption. Use as *dorbignyi* or *orbignyi* still unresolved. Current usage may result in using *orbignyi*. First reviser

not researched if earlier than Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)]. •Synonym of *Potamotrygon hystrix* (Müller & Henle 1841) -- (Castex 1964:19 [ref. [20924](#)]). •Valid as *Potamotrygon orbignyi* (Castelnau 1855) -- (Séret & McEachran 1986:22 [ref. [9312](#)], Chang & Ortega 1995:2 [ref. [24302](#)], Lasso et al. 1997:43 [ref. [23139](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Deynat 2006:492 [ref. [28948](#)], Rosa et al. 2008:7 [ref. [29564](#)], Carvalho & Lovejoy 2011:46 [ref. [31182](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Silva & Carvalho 2011:151 [ref. [31310](#)], Fontenelle et al. 2014:150 [ref. [33180](#)], Sarmiento et al. 2014:117, 188 [ref. [35004](#)], Silva & Carvalho 2015:5 [ref. [33871](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:59 [ref. [34730](#)], Carvalho 2016:643 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Distribution: Widespread in South America. Habitat: freshwater.

dumerilii, *Trygon* (*Taenura*) Castelnau [F. L.] 1855:101, Pl. 48 (fig. 1) [Animaux nouveaux or rares v. 2; ref. [766](#)] Rio Araguaya, Brazil. Holotype (unique): MNHN 0000-2367 (poor condition). Type catalog: Bertin 1939:89 [ref. [20739](#)], Séret & McEachran 1986:20-21 [ref. [9312](#)]. Name listed as *Taenura dumerilii* on figure caption. •Valid as *Potamotrygon dumerilii* (Castelnau 1855) -- (Castex 1964:23 [ref. [20924](#)], Compagno 1999:495 [ref. [25589](#)], Silva & Carvalho 2015:5 [ref. [33871](#)]). •Status questionable -- (Carvalho et al. 2011:2 [ref. [31264](#)]). •Synonym of *Potamotrygon orbignyi* (Castelnau 1855) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho 2016:537 [ref. [34666](#)]). **Current status:** Synonym of *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

reticulatus, *Trygon* Günther [A.] 1880:8 [Annals and Magazine of Natural History (Series 5) v. 6 (no. 31) (art. 2); ref. [14279](#)] Suriname. Holotype (unique): BMNH 1870.3.10.1. See Carvalho 2001:1168 [ref. [26256](#)]. •Synonym of *Potamotrygon orbignyi* (Castelnau 1855) -- (Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Silva & Carvalho 2015:6, 38 [ref. [33871](#)], Weigmann 2016:157 [ref. [34211](#)]). •Valid as *Potamotrygon reticulatus* (Günther 1880) -- (Castex 1964:25 [ref. [20924](#)]). **Current status:** Synonym of *Potamotrygon orbignyi* (Castelnau 1855). Potamotrygonidae: Potamotrygoninae. Habitat: freshwater.

pantanensis*, *Potamotrygon Loboda [T. S.] & Carvalho [M. R. de] 2013:714, Figs. 23-36 [Neotropical Ichthyology v. 11 (no. 4); ref. [33024](#)] Sinhá Marinana, tributary of Cuiabá River, district of Barão de Melgaço, Mato Grosso State, Brazil. Holotype: MZUSP 110890. Paratypes: NUP 4179 (1); MZUSP 110874, 110888-89, 11091-92, 110894 (1 each). Plus non-type specimens. •Valid as *Potamotrygon pantanensis* Loboda & Carvalho 2013 -- (Weigmann 2016:157 [ref. [34211](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:644 [ref. [34997](#)], Loboda 2016:2 [ref. [35085](#)], Koerber et al. 2017:11 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon pantanensis* Loboda & Carvalho 2013. Potamotrygonidae: Potamotrygoninae. Distribution: Brazil, Bolivia and Paraguay. Habitat: freshwater.

rex*, *Potamotrygon Carvalho [M. R. de] 2016:538, Figs. 1-13, 15, 16A, B [Zootaxa 4150 (no. 5); ref. [34666](#)] Rio Tocantins near the mouth of the right bank tributary of rio Manoel Alves, Tocantins state, Brazil, 11°18'55"S, 48°27'28"W. Holotype: MZUSP 120371. Paratypes: MZUSP, UNT. Plus non-type material. •Valid as *Potamotrygon rex* Carvalho 2016 -- (Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:645 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon rex* Carvalho 2016. Potamotrygonidae: Potamotrygoninae. Distribution: Middle and upper rio Tocantins, Brazil. Habitat: freshwater.

schroederi*, *Potamotrygon Fernández-Yépez [A.] 1958:8, Figs. 1-2 [Boletín del Museo de Ciencias Naturales. Caracas, Venezuela. 2-3; ref. [896](#)] Río Apure, at mouth of Río Apurito, Estado Apure, Venezuela. Holotype (unique): MHNLS 2504 [ex AFY 51289] (parts only). Type catalog: Lasso et al. 1998:41 [ref. [23639](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. •Valid as *Potamotrygon schroederi* Fernández-Yépez 1958 -- (Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)] dated 1957, Carvalho et al. 2011:12 [ref. [31264](#)], Fontenelle et al. 2014:150 [ref. [33180](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], DoNacimiento 2016:527 [ref. [34727](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:646 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon schroederi*

Fernández-Yépez 1958. Potamotrygonidae: Potamotrygoninae. Distribution: Orinoco and Amazon basins: Brazil and Venezuela. Habitat: freshwater.

schuhmacheri, Potamotrygon Castex [M. N.] 1964:92, 94, Fig. [Neotropica (La Plata) v. 10 (no. 32); ref. [20916](#)] Río Colastiné Sur, Santa Fe, Argentina. MFA 269. Spelled *schühmacheri* on p. 94 and in Castex 1964:32-33 [ref. [20924](#)] and authorship given as "Castex, Martínez Achenbach" in Castex 1964:32 [ref. [20924](#)], but Castex is the only author. •Status questionable -- (Carvalho et al. 2011:2 [ref. [31264](#)]). •Valid as *Potamotrygon schuhmacheri* Castex 1964 -- (Castex 1964:32 [ref. [20924](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], López et al. 2003:7 [ref. [27366](#)], Menni 2004:70 [ref. [28131](#)], Mirande & Koerber 2015:8 [ref. [35117](#)], Weigmann 2016:157 [ref. [34211](#)] see remarks, Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:647 [ref. [34997](#)], Koerber et al. 2017:11 [ref. [35267](#)]). **Current status:** Valid as *Potamotrygon schuhmacheri* Castex 1964. Potamotrygonidae: Potamotrygoninae. Distribution: Paraná-Paraguay River basin, South America. Habitat: freshwater.

scobina, Potamotrygon Garman [S.] 1913:418 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Tocantins at Cameté, Pará, Brazil. Holotype (unique): MCZ 602-S. Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. •Valid as *Potamotrygon scobina* Garman 1913 -- (Castex 1964:27 [ref. [20924](#)], Hartel & Dingerkus 1997:xix [ref. [23119](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:150 [ref. [33180](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho et al. 2016:581 [ref. [34422](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:648 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon scobina* Garman 1913. Potamotrygonidae: Potamotrygoninae. Distribution: Brazil. Habitat: freshwater.

signatus, Potamotrygon Garman [S.] 1913:420 [Memoirs of the Museum of Comparative Zoology v. 36; ref. [1545](#)] Rio Puty, tributary of Rio Paranyhyba; Paranyhyba at San Gonçallo, Brazil. Syntypes: MCZ 560-S (1), 600-S (1); USNM 153589 [ex MCZ 560-S] (1). Type catalog: Hartel & Dingerkus 1997:xliv [ref. [23119](#)]. See Carvalho 2001:1168 [ref. [26256](#)]. Castex 1964:26 [ref. [20924](#)] said four syntypes at MCZ. •Valid as *Potamotrygon signatus* Garman 1913 -- (Castex 1964:26 [ref. [20924](#)] as *signatus*, Hartel & Dingerkus 1997:xix [ref. [23119](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:25 [ref. [27061](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Fontenelle et al. 2014:341 [ref. [33180](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho et al. 2016:582 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)], Reis et al. 2016:17 [ref. [34496](#)], Carvalho 2016:649 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon signatus* Garman 1913. Potamotrygonidae: Potamotrygoninae. Distribution: Paraná River basin, Brazil. Habitat: freshwater.

tatiana, Potamotrygon Silva [J. P. C. B. da] & Carvalho [M. R. de] 2011:140, Figs. 1-12 [Papéis Avulsos de Zoologia, São Paulo v. 51 (no. 8); ref. [31310](#)] Río Madre de Díos, municipal district of Boca Manu, upper Amazon basin, state of Madre de Dios, Peru, 12°40'S, 71°04'06"W. Holotype: MZUSP 107673. Paratypes: MZUSP 107667 (1), 107668 (1). Plus non-type material. •Valid as *Potamotrygon tatiana* Silva & Carvalho 2011 -- (Fontenelle et al. 2014:150 [ref. [33180](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:650 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon tatiana* Silva & Carvalho 2011. Potamotrygonidae: Potamotrygoninae. Distribution: Río Madre de Díos, upper Río Madeira basin, upper Amazon basin, Peru. Habitat: freshwater.

tigrina, Potamotrygon Carvalho [M. R. de], Sabaj Pérez [M. H.] & Lovejoy [N. R.] 2011:3, Figs. 1-6 [Zootaxa No. 2827; ref. [31264](#)] Río Nanay, large beach (left bank) at village of Pampa Chica, 4.54 km west of Iquitos, Departamento Loreto, Peru, 3°45'09"S, 73°17'00"W. Holotype: MUSM 39978 [ex ANSP 182452]. Paratypes: ANSP 191998 (1). •Valid as *Potamotrygon tigrina* Carvalho, Sabaj Pérez & Lovejoy 2011 -- (Fontenelle et al. 2014:150 [ref. [33180](#)], Weigmann 2016:157 [ref. [34211](#)], Carvalho et al. 2016:582 [ref. [34422](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:651 [ref. [34997](#)]). **Current status:** Valid as

Potamotrygon tigrina Carvalho, Sabaj Pérez & Lovejoy 2011. Potamotrygonidae: Potamotrygoninae. Distribution: Río Nanay, upper Amazon basin, Peru. Habitat: freshwater.

wallacei, *Potamotrygon* Carvalho [M. R. de], Rosa [R. S.] & Araújo [M. L. G. de] 2016:567, Figs. 1-11, 13, 14 [Zootaxa 4107 (no. 4); ref. [34422](#)] Rio Negro, municipality of Barcelos, Amazonas, Brazil, 0°57'30.24"S, 62°56'14.697"W. Holotype: MZUSP 117809. Paratypes: BMNH, MNRJ, MZUSP, UFPB. Plus non-type material. •Valid as *Potamotrygon wallacei* Carvalho, Rosa & Araújo 2016 -- (Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:652 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon wallacei* Carvalho, Rosa & Araújo 2016. Potamotrygonidae: Potamotrygoninae. Distribution: Rio Negro basin, Amazonas, Brazil. Habitat: freshwater.

yepenzi, *Potamotrygon* Castex [M. N.] & Castello [H. P.] 1970:16, Pl. [Acta Scientifica del Departamento de Zoología, Instituto Latinoamericano de Fisiología y Reproducción, Universidad del Salvador No. 8; ref. [7723](#)] Río Palmar at bridge, 70 kilometers southwest of Maracaibo, southeastern Maracaibo Lake region, Venezuela. Holotype: USNM 121662. Paratypes: Univ. El Salvador [ex USNM 121668] (1), Univ. El Salvador [ex USNM 121664] (1); USNM 121659-60 (2, 1), 121663-65 (1, 1, 1), 121667-68 (1, now 1). Plus additional material. •Valid as *Potamotrygon yepenzi* Castex & Castello 1970 -- (Nishida 1990:92 [ref. [19783](#)], Galvis et al. 1997:26 [ref. [23651](#)], Compagno 1999:495 [ref. [25589](#)], Carvalho et al. in Reis et al. 2003:26 [ref. [27061](#)], Rosa et al. 2008:7 [ref. [29564](#)], Carvalho & Lovejoy 2011:46 [ref. [31182](#)], Carvalho et al. 2011:26 [ref. [31264](#)], Weigmann 2016:158 [ref. [34211](#)], Carvalho 2016:562 [ref. [34666](#)], Carvalho 2016:6 [ref. [34730](#)], Carvalho 2016:653 [ref. [34997](#)]). **Current status:** Valid as *Potamotrygon yepenzi* Castex & Castello 1970. Potamotrygonidae: Potamotrygoninae. Distribution: Venezuela and Colombia. Habitat: freshwater.

Extract from

Eschmeyer, W. N., R. Fricke, and R. van der Laan (eds).

CATALOG OF FISHES: GENERA, SPECIES, REFERENCES.

(<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>).

Electronic version accessed 12 May 2017. [This version was edited by Bill Eschmeyer.]

Class Actinopteri

Order Perciformes

Family Pomacanthidae

Genus *Holacanthus*

Species ***Holacanthus clarionensis*** Gilbert 1890

clarionensis*, *Holacanthus Gilbert [C. H.] 1890:72 [Proceedings of the United States National Museum v. 13 (no. 797); ref. [1623](#)] Clarion, Socorro and San Benedicto Islands, Revillagigedo Islands, off western Mexico. Syntypes: BMNH 1898.10.29.45-46 (2?) Clarion; CAS-SU 1986 (2) Socorro, 1987 (1) Clarion. Type catalog: Böhlke 1953:81 [ref. [12291](#)]. •Valid as *Holacanthus clarionensis* Gilbert 1890-- (Allen 1980:251 [ref. [22764](#)], Allen & Robertson 1994:182 [ref. [22193](#)], Krupp & Schneider in Fischer et al. 1995:1390 [ref. [22830](#)], De La Cruz Agüero et al. 1997:259 [ref. [24545](#)], Thomson et al. 2000:149 [ref. [25640](#)], Nelson et al. 2004:150 [ref. [27807](#)], Page et al. 2013:155 [ref. [32708](#)], Fourrière et al. 2016:447 [ref. [34668](#)], Hernández-Velasco et al. 2016:1 [ref. [34760](#)], Del Moral-Flores et al. 2016:610 [ref. [34923](#)]). **Current status:** Valid as *Holacanthus clarionensis* Gilbert 1890. Pomacanthidae. Distribution: Eastern Pacific. Habitat: marine.