

Order CHARACIFORMES

Halftooths

Family **HEMIODONTIDAE**

Bleeker 1859



Hemiodus langeanii, paratype, 106.3 mm SL. From: Beltrão, H. and J. Zuanon. 2012. *Hemiodus langeanii* (Characiformes: Hemiodontinae), a new species from rio Amana, rio Maués-Açú drainage, Amazon basin, Brazil. Neotropical Ichthyology 10 (2): 255-262.

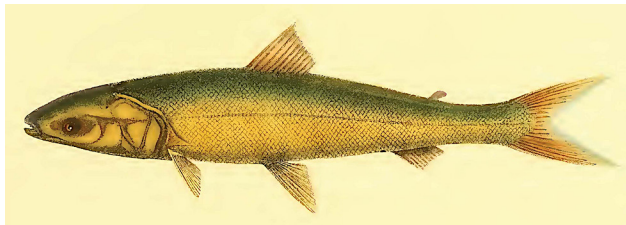
Anodus

Cuvier 1829

án- (ǎv), Greek privative, i.e., not; *odoús* (Gr. ὀδοός), tooth, referring to lack of jaw teeth

Anodus elongatus Agassiz 1829 Latin for prolonged, referring to its slender, elongate body and/or elongate, laterally compressed head

Anodus orinocensis (Steindachner 1887) -ensis, Latin suffix denoting place: Río Orinoco (probably in Venezuela), type locality



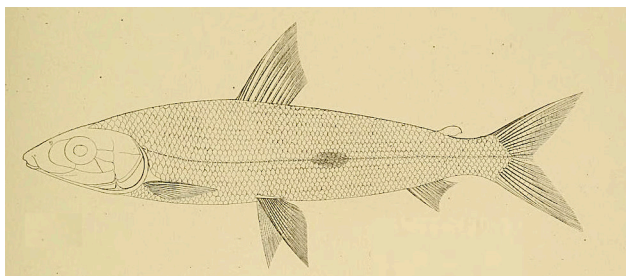
Anodus elongatus. From: Spix, J. B. von and L. Agassiz. 1829–31. *Selecta genera et species piscium quos in itinere per Brasiliam annis MDCCCXVII-MDCCCXX jussu et auspiciis Maximiliani Josephi I. Monachii (Munich)*. Part 1: I–xvi + I–II + 1–6 + 1–82, Pls. 1–48, Part 2: 83–138, Pls. 49–101. [Part 1 published June 1829, part 2 Jan. 1831.]

Argonectes

Böhlke & Myers 1956

argós (Gr. ἀργός), shining, bright, glistening or swift; *néktēs* (Gr. νήκτης), swimmer, allusion not explained, probably referring to shiny silvery color and/or streamlined shape of *A. longiceps*

Argonectes longiceps (Kner 1858) longus (L.), long; *-ceps* (Neo-Latin),



First-published image of *Argonectes longiceps*. From: Kner, R. 1859. Zur Familie der Characinen. III. Folge der Ichthyologischen Beiträge. Denkschriften der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Classe 17: 137–182, Pls. 1–9.

headed, presumably referring to length of head, which is ¼ of SL

Argonectes robertsi Langeani 1999 in honor of American ichthyologist Tyson R. Roberts (b. 1940), for his contributions to the study of hemiodontid fishes

Bivibranchia

Eigenmann 1912

bivium (L.), a “place of two ways,” i.e., intersection; *bránchia* (Gr. βράγχια), gills, referring to modified gills of *B. protractila* (=fowleri), in which gill-rakers on each arch interlock with rakers between subsequent arches, used to filter food particles from sand

Bivibranchia bimaculata Vari 1985 *bi-*, from *bis* (L.), twice; *maculata* (L.), spotted, referring to two dark spots on lateral surface of body and caudal peduncle

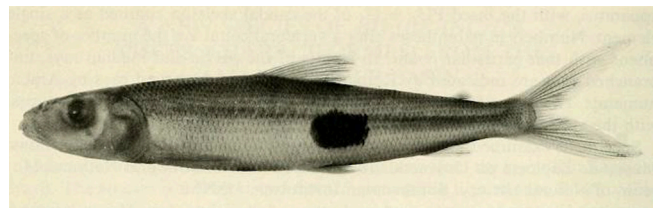
Bivibranchia fowleri (Steindachner 1908) patronym not identified, probably in honor of American ichthyologist Henry Weed Fowler (1878–1965), Academy of Natural Sciences of Philadelphia

Bivibranchia notata Vari & Goulding 1985 Latin for marked, referring to prominent spot on midlateral surface of body

Bivibranchia simulata Géry, Planquette & Le Bail 1991 Latin for copied or imitated, referring to its resemblance to *B. bimaculata*

Bivibranchia simulata surinamensis Géry, Planquette & Le Bail 1991 -ensis, Latin suffix denoting place: Suriname, where type locality (Nickerie River) is situated

Bivibranchia velox (Eigenmann & Myers 1927) Latin for swift or speedy, “every line of their contours suggests speed”



Brevibranchia notata, holotype, 68.3 mm TL. From: Vari, R. P. and M. Goulding. 1985. A new species of *Bivibranchia* (Pisces: Characiformes) from the Amazon River basin. Proceedings of the Biological Society of Washington 98 (4): 1054–1061.

Hemiodus

Müller 1842

hemi-, from *hémisys* (Gr. ἡμισυς), half; *odoús* (Gr. ὀδούς), tooth, referring to teeth in upper jaw but not lower

***Hemiodus amazonum* (Humboldt 1821)** although epithet translates as “of the Amazons,” referring to warrior women for whom the Amazon was named, it actually refers to the river itself (“de la riviere des Amazones”), where it occurs

***Hemiodus argenteus* Pellegrin 1909** Latin for silvery, referring to “beautiful silver color” (translation) of sides and belly

***Hemiodus atranalis* (Fowler 1940)** *ater* (L.), black; *analis* (L.), anal, referring to anal fin, “obscured with blackish brown specks and dots, appearing blackish”

***Hemiodus bimaculatus* Nogueira, Langeani & Notto-Ferreira 2019** *bi-*, from *bis* (L.), twice; *maculatus* (L.), spotted, referring to two conspicuous dark blotches on body, one at midlateral flank, the other at lateral surface of caudal peduncle

***Hemiodus goeldii* Steindachner 1908** patronym not identified but probably in honor of Swiss-Brazilian zoologist Émil (or Emílio) Goeldi (1859–1917), Director of the Museo Paraense and author of numerous works on the natural history of Brazil

***Hemiodus gracilis* Günther 1864** Latin for slender, presumably referring to elongate body

***Hemiodus huraulti* (Géry 1964)** in honor of Jean-Marcel Hurault (1917–2005), “expert” ethnologist of the forest tribes of French Guiana, who collected holotype

***Hemiodus immaculatus* Kner 1858** *im-*, from *in* (L.), not; *maculatus* (L.), spotted, referring to absence of black spots or bands on sides

***Hemiodus iratapuru* Langeani & Moreira 2013** named for type locality, Rio Iratapuru, Laranjal do Jari, Brazil

***Hemiodus jatuarana* Langeani 2004** Portuguese vernacular, derived from the Tupí-Guaraní, applied to most species of *Hemiodus* in the Brazilian Amazon

***Hemiodus langeanii* Beltrão & Zuanon 2012** in honor of Brazilian ichthyologist Francisco Langeani, Universidade Estadual Paulista, for his “highly relevant contributions” to the knowledge of hemiodontid fishes

***Hemiodus microlepis* Kner 1858** *micro-*, from *mikrós* (Gr. μικρός), small; *lepis* (Gr. λεπίς), scale, referring to its minute scales (“squamae minutiae”), 110–112 along lateral line

***Hemiodus ocellatus* (Vari 1982)** Latin for having little eyes (ocelli), referring to longitudinally elongate, ocellated spot straddling but located largely dorsal to lateral line

***Hemiodus orthonops* Eigenmann & Kennedy 1903** acknowledged by Eigenmann (1907) as a misprint for *othonops*: *otho*, from *othónē* (Gr. ὀθόνη), fine linen, veil, or a membrane that encloses the pupil of the eye; *ōps* (Gr. ὤψ), eye, referring to eye covered, with exception of a short slit over pupil, by broad adipose lids

***Hemiodus parnaguae* Eigenmann & Henn 1916** of Lagoa de Parnagua, Brazil, type locality

***Hemiodus quadrimaculatus* Pellegrin 1909** *quadri-* (L.), four; *maculatus* (L.), spotted, referring to four large black vertical bands (not spots) on sides

***Hemiodus semitaeniatus* Kner 1858** *semi-*, from *semis* (L.), a half or moiety; *taeniatus* (L.), banded, referring to black lateral band that extends from a black spot behind dorsal fin to root of caudal fin

***Hemiodus sterni* (Géry 1964)** in honor of Max Stern (1898–1982), founder of Hartz Mountain Bird Company, who “has done so much for the aquarium industry”

***Hemiodus ternetzi* Myers 1927** in honor of Swiss-born ichthyologist and

naturalist Carl Ternetz (1870–1928), who “through his personal effort, has brought together for Indiana University one of the finest collections of South American fresh-water fishes in existence,” including holotype of this one

***Hemiodus thayeria* Böhlke 1955** named for the “striking” similarity in coloration between it and *Thayeria obliqua* (Characidae: Stethapriocinae)

***Hemiodus tocantinensis* Langeani 1999** *-ensis*, Latin suffix denoting place: Tocantins River basin, Brazil, type locality

***Hemiodus tucupi* Silva, Nogueira, Netto-Ferreira, Akama & Dutra 2020** tucupi, yellow sauce or juice extracted from the wild manioc root, referring to this fish’s pale-yellow fins in life

***Hemiodus unimaculatus* (Bloch 1794)** *uni-*, from *unus* (L.), one; *maculatus* (L.), spotted, referring to single black spot on sides

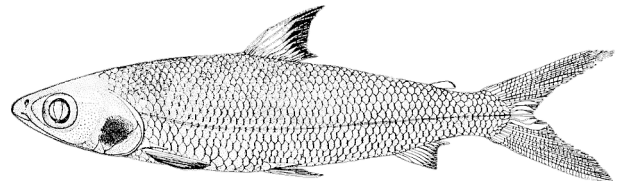
***Hemiodus vorderwinkleri* (Géry 1964)** in honor of William Vorderwinkler (1908–1970), “well-known” scientific writer, aquarist and editor of *Tropical Fish Hobbyist* (in which description appeared), who helped collect holotype

Micromischodus

Roberts 1971

micro-, from *mikrós* (Gr. μικρός), small; *mischos* (Gr. μίσχος), stalk, petiole or peduncle; *odoús* (Gr. ὀδούς), tooth, referring to its minute unicuspid teeth

***Micromischodus sugillatus* Roberts 1971** Latin for bruised or spotted with black-and-blue, referring to color of dorsal fin and opercle



Micromischodus sugillatus, holotype, 152 mm SL. Roberts, T. R. 1971. *Micromischodus sugillatus*, a new hemiodontid characin fish from Brazil, and its relationship to the Chilodontidae. *Breviora* No. 367: 1–25.