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Order SILURIFORMES

Banjo Catfishes

Family **ASPREDINIDAE**

Adams 1854



Subfamily PSEUDOBUNOCEPHALINAE Carvalho, Arce H., Reis & Sabaj 2018

Acanthobunocephalus

Friel 1995

acantho-, from ákantha (Gr. ἄκανθα), thorn or spine, referring to rigid, locking dorsal spine, i.e., a spiny *Bunocephalus*

Acanthobunocephalus nicoi Friel 1995 in honor of American ichthyologist Leo G. Nico, U.S. Geological Survey, who collected holotype

Acanthobunocephalus scruggsi Carvalho & Reis 2020 in honor of Earl Scruggs (1924–2012), a prominent American banjo player known for popularizing a three-finger banjo picking style, known as the "Scruggs style," which is characteristic of bluegrass music; name also alludes to the common name "banjo catfishes" and the "remarkable resemblance" of this species with this musical instrument

Pseudobunocephalus Friel 2008

pseudo-, from pseúdēs (Gr. ψεύδης), false or deceptive, referring to fact that members of this genus have previously been mistaken for juveniles of various species of Bunocephalus

Pseudobunocephalus amazonicus (Mees 1989) -icus (L.), belonging to: Amazon River, referring to distribution in the middle Amazon basin

(including Rio Madeira) of Bolivia and Brazil

Pseudobunocephalus bifidus (Eigenmann 1942) Latin for cleft, parted or split, referring to bifid postmental barbels

Pseudobunocephalus iheringii (Boulenger 1891) in honor of German-Brazilian zoologist Hermann von Ihering (1850-1930), who helped collect holotype

Pseudobunocephalus lundbergi Friel 2008 in honor of John G. Lundberg (b. 1942), Academy of Natural Sciences of Philadelphia, Friel's Ph.D. advisor, for numerous contributions to neotropical ichthyology and the systematics of siluriform and gymnotiform fishes

Pseudobunocephalus quadriradiatus (Mees 1989) quadri-, from quattuor (L.), four; radiatus (L.), rayed, referring to four-rayed pectoral fin rather than the usual five



Pseudobunocephalus bifidus, holotype. From: Eigenmann, C. H. and W. R. Allen. 1942. Fishes of Western South America. I. The intercordilleran and Amazonian lowlands of Peru. II. The high pampas of Peru, Bolivia, and northern Chile. With a revision of the Peruvian Gymnotidae, and of the genus Orestias. University of Kentucky. I–xv + 1–494, PIs. 1–2.

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Pseudobunocephalus rugosus (Eigenmann & Kennedy 1903) Latin for wrinkled or shriveled, presumably referring to "very conspicuous" warts all over its skin

Pseudobunocephalus timbira Leão, Carvalho, Reis & Wosiacki 2019 named for the Timbira indigenous groups who live in the area (lower Tocantins and Mearim river basins in Maranhão, Pará and Tocantins states, Brazil) where this catfish occurs

> Small Banjo Catfishes Subfamily HOPLOMYZONTINAE Fernández-Yépez 1950

Dupouvichthys

Schultz 1944

in honor of Venezuelan anthropologist-biologist Walter Dupouy (1906–1978), director of the Museo de Ciencias Naturales (Caracas), who was "especially helpful" in regard to Schultz' work with fishes; *ichthýs* (Gr. ἰχθύς), fish

Dupouyichthys sapito Schultz 1944 common name of this catfish in the Maracaibo Basin, Venezuela



Dupouyichthys sapito. From: Schultz, L. P. 1944. The catfishes of Venezuela, with descriptions of eight new forms. Proceedings of the United States National Museum 94 (3172): 173–338, Pls 1-14

Ernstichthys

Fernández-Yépez 1953 in honor of Prussian-born Venezuelan biologist Adolfo (also spelled Adolf) Ernst (1832–1899), Chair of Natural Science at the Central University of Venezuela; ichthýs (Gr. ἰχθύς), fish

Ernstichthys anduzei Fernández-Yépez 1953 in honor of Pablo J. Anduze (1902-1989), Venezuelan explorer, ethnologist and medical entomologist, and later governor of Amazonas State, Venezuela, whom Fernández-Yépez described as a "tireless researcher" (translation)

Ernstichthys intonsus Stewart 1985 Latin for unshaved or bearded, referring to "extreme proliferation of barbels"

Ernstichthys megistus (Orcés V. 1961) mégistos (Gr. μέγιστος), largest, referring to its large size (up to 67 mm SL) compared with Dupouyichthys sapito and Hoplomyzon atrizona, its presumed congeners at the time

Ernstichthys taquari Dagosta & de Pinna 2021 named for upper Rio Taquari drainage, Mato Grosso do Sul, Brazil, where type locality (Rio Taquarizinho) is situated, from the Tupí word takwa'ri, combining ta'kwara (a common name for bamboo-like plants of family Poaceae) and a diminutive "i"

Hoplomyzon Myers 1942

hóplon (Gr. $\ddot{o}\pi\lambda ov$), shield or armor, referring to body of *H. atrizona* "armed with six longitudinal series of bony bucklers"; myzon, Latinized from mýzo (Gr. μύζω), to suck, presumably referring to resemblance to Asian (Exostoma) and Neotropical (Astroblepus) catfishes (as noted by Myers) that have sucker mouths (a resemblance mainly due to adnate maxillary barbels in Hoplomyzon¹)

Hoplomyzon atrizona Myers 1942 ater, from ater (L.), black; zona (L.), belt or girdle (i.e., band), referring to three black crossbands on body, "very bold and striking"





Hoplomyzon sexpapilostoma, holotype, ventral view. Illustration by Crispulo Marrero. From: Taphorn, D. C. and C. Marrero. 1990. Hoplomyzon sexpapilostoma, a new species of Venezuelan catfish (Pisces: Aspredinidae), with comments on the Hoplomyzontini. Fieldiana Zoology (New Series) 61: 1-9

Hoplomyzon cardosoi Carvalho, Reis & Friel 2017 in honor and in memory of Alexandre Rodrigues Cardoso, a "dear colleague who prematurely passed away ... for his humbleness, positive attitude, and dedicated friendship," and for his contributions to the taxonomy of neotropical fishes, including the family Aspredinidae

Hoplomyzon papillatus Stewart 1985 Latin for papillose (with buds), referring to numerous short, papillae-like mental barbels

Hoplomyzon sexpapilostoma Taphorn & Marrero 1990 sex (L.), six; papilo (=papilla, L.), bud or tubercle; stóma (Gr. στόμα), mouth, referring to six buccal papillae (four on upper lip, one at each corner of mouth)

Micromyzon

Friel & Lundberg 1996 micro-, from mikrós (Gr. μικρός), small, referring to size (<16 mm SL)

of M. akamai; myzon, Latinized from mýzō (Gr. μύζω), to suck, but here referring to Hoplomyzon, type genus of tribe Hoplomyzontini

Micromyzon akamai Friel & Lundberg 1996 in honor of Brazilian ichthyologist Alberto Akama, Museu Paraense Emílio Goeldi (Belém, Pará), for his "enthusiastic help" in collecting the type series

Micromyzon orinoco Carvalho, Lundberg, Baskin, Friel & Reis 2016 named for the lower Río Orinoco, Venezuela, where it occurs



Micromyzon orinoco, paratype, 14.8 mm SL. From: Carvalho, T. P., J. G. Lundberg, J. N. Baskin, J. P. Friel and R. E. Reis. 2016. A new species of the blind and miniature genus *Micromyzon* Friel and Lundberg, 1996 (Silurifomes: Aspredinidae) from the Orinoco River: describing catfish diversity using high-resolution computed tomography. Proceedings of the Academy of Natural Sciences of Philadelphia 165 (1): 37–53.

Banjo Catfishes Subfamily ASPREDININAE Adams 1854

Amaralia Fowler 1954

-ia (L. suffix), belonging to: Brazilian herpetologist (and anti-venom serum expert) Afrânio do Amaral (1894–1982), in honor of his work in Brazilian natural history

Amaralia hypsiura (Kner 1855) high-tailed, from hypselós (Gr. ὑψηλός), high or tall, and ourá (Gr. οὐρά), tail, referring to its thick (or high) caudal peduncle



Amaralia oviraptor, paratype, 108 mm SL. Friel, J. P. and T. P. Carvalho. 2016. A new species of Amaralia Fowler (Siluriformes: Aspredinidae) from the Paraná-Paraguay river basin. Zootaxa 4088 (4): S31–S46.

Amaralia oviraptor Friel & Carvalho 2016 ovi-, from ovum (L.), egg; raptor (L.), robber or plunderer, often used as a term for predator, referring to apparent dietary specialization of Amaralia on eggs and developing embryos of other catfishes

Aspredinichthys

Bleeker 1858 Aspredo, type genus of family and former genus of A. tibicen; ichthýs (Gr. ἰχθύς), fish

Aspredinichthys filamentosus (Valenciennes 1840) Latin for filamentous, referring to elongate first ray of dorsal fin

Aspredinichthys tibicen (Valenciennes 1840) Latinization of *trompetter*, or *trompetfisi* (trumpeter), Dutch-Surinamese local name for this and other aspredinid catfishes, alluding to the sound they make when taken out of the water²



Aspredinichthys filamentosus. Illustration by Jacques Reyne Isidore Acarie-Baron. From: Cuvier, G. and A. Valenciennes. 1840. Histoire naturelle des poissons. Tome quinzième. Suite du livre dix-septième. Siluroïdes. v. 15: i–xxxi + 1–540, Pls. 421–455. [Valenciennes authored volume.]

Aspredo Scopoli 1777

presumably tautonymous with *Silurus aspredo* (Scopoli [ex Gronow] did not indicate species), Latin for roughness, presumably referring to its tuberculate skin

Aspredo aspredo (Linnaeus 1758) Latin for roughness, presumably referring to its tuberculate skin

Bunocephalus

Kner 1855

buno-, from bounós (Gr. βουνός), mound or knob; cephalus, from kephalḗ (Gr. κεφαλή), head, referring to rounded cusps or bumps on head of *B. verrucosus*

Bunocephalus aleuropsis Cope 1870 etymology not explained, perhaps *a*- (Gr. ά), negative prefix, e.g., not; *leurós* (Gr. λευρός), smooth; *ópsis* (Gr. ὄψις), appearance, referring to five series of "wartlets" each side of tail (another interpretation: *áleuron* (Gr. ἄλευρον), flour and *opsis*, appearance, referring to "head densely punctulated with white")

Bunocephalus aloikae Hoedeman 1961 of Aloiké village, French Guiana, type locality

Bunocephalus amaurus Eigenmann 1912 amaurós (Gr. ἀμαυρός), dark, referring to its dark-chocolate coloration



Bunocephalus chamaizelus Eigenmann 1912 etymology not explained, perhaps *chamaí* (Gr. χαμαί), on the ground, and *zélos* (Gr. ζῆλος), zeal or fervor, referring to its sand-burrowing habits, described as having a "sand-like" general appearance

Bunocephalus colombianus Eigenmann 1912 -anus (L.), belonging to: Colombia, where it is endemic

Bunocephalus coracoideus (Cope 1874) etymology not explained, presumably adjectival form of coracoid, referring to longer postcoracoids compared with *B. melas* (*=aleuropsis*)

Bunocephalus doriae Boulenger 1930 in honor of Italian herpetologist Giacomo Doria (1840–1913), "eminent Director of the Genoa Civic Museum" (translation) [although named after a man, "*ae*" is an acceptable way to form a genitive from a masculine noun that ends in "a"]

Bunocephalus erondinae Cardoso 2010 in memory of the author's mother, Erondina Rodrigues Cardoso

Bunocephalus hartti Carvalho, Cardoso, Friel & Reis 2015 in honor of Charles Frederick Hartt (1840–1878), Canadian geologist, paleontologist and naturalist; his notable accomplishments include the publication of "Geology and physical geography of Brazil" (1870), and serving as founder and director of the section of geology at the Museu Nacional of Brazil from 1866 to 1867

Bunocephalus hertzi Esguícero, Castro & Pereira 2020 in honor of Hertz Figueiredo dos Santos, Laboratório de Ictiologia de Ribeirão Preto (Universidade de São Paulo), co-discoverer of this species, "in deep appreciation for his approximately three decades of unfailing contribution" to the study of neotropical fishes

Bunocephalus knerii Steindachner 1882 patronym not identified but clearly in honor of Austrian ichthyologist Rudolf Kner (1810–1869), who was Steindachner's teacher and friend



Bunocephalus chamaizelus, holotype. From: Eigenmann, C. H. 1912. The freshwater fishes of British Guiana, including a study of the ecological grouping of species, and the relation of the fauna of the plateau to that of the lowlands. Memoirs of the Carnegie Museum 5 (1): i–xxii + 1–578, PIs. 1–103.

² Isaäc J. H. Isbrücker, Zoölogisch Museum Amsterdam, pers. comm.

Bunocephalus larai Ihering 1930 in honor of Rodolpho Lara Campos, sponsor of expedition during which holotype was collected

Bunocephalus minerim Carvalho, Cardoso, Friel & Reis 2015 typically regional way of pronouncing the Portuguese word *mineirinho*, diminutive of *mineiro*, a person from Minas Gerais, Brazil, referring to region where it is found and to its relatively small size compared with congeners

Bunocephalus verrucosus (Walbaum 1792) Latin for covered with verrucae, or warts, referring to warty tubercles on body

Platystacus

Bloch 1794

platýs (Gr. πλατύς), flat, referring to short and flat body; acus (L.), needle, referring to long and compressed tail

Platystacus cotylephorus Bloch 1794 cup-bearing, from *cotyle*, from *kotúlē* (Gr. κοτύλη), cup or bowl, and *phoreús* (Gr. φορεύς), bearer or carrier, referring to cup-like hollows (now called cotylephores) on abdomen (to which developing embryos are attached, a fact not known at the time)



Platystacus cotylephorus. Illustration by Johann Friedrich Hennig. From: Bloch, M. E. 1794. Naturgeschichte der ausländischen Fische. Berlin. v. 8: i–iv + 1–174, Pls. 361–396.

Pterobunocephalus Fowler 1943

pterus, from pterón (Gr. πτερόν) or ptéryx (πτέρυξ), wing or fin, referring to large anal fin of Bunocephalus (subgenus Pterobunocephalus) albifasciatus (=P. depressus)

Pterobunocephalus depressus (Haseman 1911) Latin for pressed down, referring to its "greatly depressed" body



Pterobunocephalus depressus, dorsal view of head and upper body. From: Haseman, J. D. 1911. Descriptions of some new species of fishes and miscellaneous notes on others obtained during the expedition of the Carnegie Museum to central South America. Annals of the Carnegie Museum 7 (17): 315–328, PIs. 46–52.

Pterobunocephalus dolichurus (Delsman 1941) long-tailed, from *dolichós* (Gr. δολιχός), long, and *urus*, from *ourá* (Gr. οὐρά), tail, referring to its "very long" tail relative to others then classified in the short-tailed subfamily Bunocephalinae

Xyliphius Eigenmann 1912

etymology not explained, perhaps from *xylódis* (Gr. ξυλώδης), woody, possibly referring to cryptic coloration of *X. magdalenae*, which can be said to resemble a small piece of wood

Xyliphius anachoretes Figueiredo & Britto 2010 anachōrētḗs (Gr. ἀναχωρητής), "one that retired from the world" (i.e., hermit or recluse), referring to the rarity of the two known specimens, each one found



Xyliphius barbatus. From: Alonso de Arámburu, A. S. and R. H. Arámburu. 1962. Una nueva especie de Xyliphius de la Argentina (Siluriformes, Bunocephalidae). Physis (Buenos Aires) 23 (65): 219–222.

alone and far apart

Xyliphius barbatus Alonso de Arámburu & Arámburu 1962 Latin for bearded, referring to 30 dendritic papillae on lower lip

Xyliphius kryptos Taphorn & Lilyestrom 1983 kryptós (Gr. κρυπτός), hidden, referring to its difficult-to-sample habitat, at the "bottom of turbulent rivers with strong currents, in total darkness" (translation)

Xyliphius lepturus Orcés V. 1962 thin-tailed, from *leptós* (Gr. λεπτός), fine or thin, and *urus*, from *ourá* (Gr. οὐρά), tail, referring to comparatively slender caudal peduncle, its depth about ½ of SL

Xyliphius magdalenae Eigenmann 1912 of the Magdalena River basin, Colombia, where it is endemic

Xyliphius melanopterus Orcés V. 1962 black-finned, from *mélanos* (Gr. μέλανος), genitive of *mélas* (μέλας), black, and *pterus*, from *pterón* (Gr. πτερόν) or *ptéryx* (πτέρυξ), wing or fin, referring to its predominantly black fins

Xyliphius sofiae Sabaj Pérez, Carvalho & Reis 2017 in honor of the first author's daughter, Sofia, "for inspiring wisdom in her father"