

Checklist of the species of the Order Characiformes (Teleostei: Ostariophysi)

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A checklist of recent and fossil fishes of the Order Characiformes is presented herein and believed to be complete through 2022. A total of 47 collaborators checked and provided information about their taxa of expertise. The list is arranged in alphabetical order by family and then genus and includes all available synonyms. From a total of 3,087 species group names and 527 genus group names, 2,334 species are currently treated as valid, and assigned to 301 genera and 24 families. This total includes 25 species known only from the fossil record, of which 21 are assigned to eight extant families and four are *Incertae sedis* in Characiformes, but does not include five species based on fossil which were wrongly treated in Characiformes. The status of 79 nominal species remains unresolved. When there are two competing hypotheses about the validity of a name, one of them is chosen and the alternate interpretation is provided in the remark section of that name. Distributional summaries are presented as numbers that correspond to areas for which there is a record of occurrence of the species. A list of unavailable names is provided at the end since some of those names may need additional research to certify their status.

Keywords: African fishes, Biodiversity, Freshwater fishes, South American ichthyofauna, Taxonomy.

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Uma lista de peixes recentes e fósseis da Ordem Characiformes é apresentada e acredita-se que a lista esteja completa até 2022. Ao todo, 47 colaboradores verificaram e forneceram informações sobre táxons de sua especialidade. A lista está organizada em ordem alfabética por família e em seguida gênero e inclui todos os sinônimos disponíveis. De um total de 3.087 nomes de grupos de espécies e 527 nomes de grupos de gêneros, 2.334 espécies são atualmente tratadas como válidas e atribuídas a 301 gêneros e 24 famílias. Este total inclui 25 espécies fósseis, das quais 21 são incluídas em oito famílias recentes e quatro são *Incertae sedis* em Characiformes, mas não inclui cinco espécies baseadas em fósseis que foram incorretamente consideradas como Characiformes. O status de 79 espécies nominais permanece não resolvido. Quando há duas hipóteses concorrentes sobre a validade de um nome, uma delas é escolhida e a interpretação alternativa é fornecida na seção de comentários do nome em questão. Dados sobre distribuição geográfica são apresentados através de números que correspondem a regiões para as quais há registro de ocorrência da espécie. Uma lista de nomes indisponíveis foi listada no final do texto, pois alguns desses nomes precisam ser mais bem investigados para certificar seu status.

Palavras-chave: Biodiversidade, Ictiofauna sul-americana, Peixes africanos, Peixes de água doce, Taxonomia.

INTRODUCTION

Teleost fishes of the order Characiformes (Ostariophysi: Otophysa) comprise one of the largest and most morphologically diverse ordinal assemblages of primarily freshwater fishes. They are currently distributed in Africa and South, Central, and southern North America, with their greatest diversity (*ca.* 90%) in the Neotropical region. The group includes aquarium species commonly known as tetras, the world-famous predacious piranhas, and species important to commercial and subsistence fisheries such as the ‘dourados’ of the genus *Salminus* and the detritivores prochilodontids. Characiforms achieve large body sizes such as in the goliath tigerfish (*Hydrocynus*), of Africa, and the frugivorous tambaqui, (*Colossoma*), and ‘trairão’ of the genus (*Hoplias*) of South America. On the other side of the spectrum there are several miniature species not known to exceed a standard length of 26 mm (Weitzman, Vari, 1988; Conway, Moritz, 2006; Toledo-Piza *et al.*, 2014). Characiforms are also known from the fossil record in which they are represented mainly by isolated skeletal elements and more rarely, articulated parts or whole specimens from South America, Africa, Europe, and the Arabian Peninsula (Malabarba, Malabarba, 2010).

Characiforms have been considered a natural group since the work of Müller (1843) and culminating with the analysis of Fink, Fink (1981, 1996) which provided strong support for the monophyly of the order based on morphological synapomorphies. However, more recent analyses of molecular data have challenged the monophyly of Characiformes (Ortí, Meyer, 1996, 1997; Nakatani *et al.*, 2011; Chen *et al.*, 2013; Chakrabarty *et al.*, 2017; Melo *et al.*, 2021).

Historical biogeographic hypotheses of the transatlantic distribution of the Characiformes were addressed in several studies (cf. Lundberg, 1993; Chen *et al.*, 2013; Malabarba, Malabarba 2010; Arroyave *et al.*, 2013), but phylogenetic uncertainties have hindered our understanding of how geomorphological processes drove their evolution (Chakrabarty *et al.*, 2017).

Concepts about the higher-level phylogenetic relationships within Characiformes were reviewed by Vari (1998) and Buckup (1998). The family level classification of the order remained stable until the first decade of the 21st century (*e.g.*, Reis *et al.*, 2003 and Buckup *et al.*, 2007), even though uncertainties were long recognized mainly regarding the composition and relationships of the family Characidae, which represents more than 50% of the species within the Characiformes. Subsequently, several studies using morphological and/or molecular approaches aimed to provide a phylogenetic diagnosis of the Characidae and to assess higher-level relationships of and within the family (*e.g.*, Malabarba, Weitzman, 2003; Calcagnotto *et al.*, 2005; Zanata, Vari, 2005; Menezes, Weitzman, 2009; Javonillo *et al.*, 2010; Mirande, 2010; Oliveira *et al.*, 2011; Mattox, Toledo-Piza, 2012; Thomaz *et al.*, 2015, Mirande, 2018, Terán *et al.*, 2020, Souza *et al.*, 2022). Hypotheses of relationships generated by those studies resulted in the proposition and rearrangements in the composition of several genera and changes in the classification of subfamilies within the Characidae. Nomenclatural decisions were also proposed at the family level. The study of Mirande (2010) recognized a more encompassing Characidae which included most of the genera historically classified in the family, and treated the families Acestrorhynchidae and Cynodontidae (Lucena, Menezes, 1998; Reis *et al.*, 2003) as subfamilies (Acestrorhynchinae and Cynodontinae, respectively) within Characidae. Alternatively, Oliveira *et al.* (2011) restricted the Characidae by removing many species to taxa newly elevated to family level status (Bryconidae, Chalceidae, Iguanodectidae, Triportheidae, Acestrorhynchidae and Cynodontidae; see Mirande, 2018 for a discussion).

The last comprehensive checklist of characiform fishes was published two decades ago (Reis *et al.*, 2003), and included 1,460 valid characiform species grouped in 231 genera and 14 families. The list included only the Neotropical component of the order and was later updated, but only for species from Brazil (Buckup *et al.*, 2007). A complete list of species of African characiforms was presented by Daget *et al.* (1984) and included 215 species in 38 genera and four families.

The organization of the taxonomic information achieved through previous checklists played an important role in the progress of our knowledge about freshwater fishes by compiling sources of species descriptions and revisions. The amount of taxonomic information generated in the last two decades justifies an update to those checklists, so that such data remain organized and accessible for analyses. Similar efforts were undertaken for two other Otophysan orders, the Siluriformes (Ferraris, 2007) and the Gymnotiformes (Ferraris *et al.*, 2017). The aim herein was to produce a complete and accurate checklist of Recent and fossil characiform species through 2022.

MATERIAL AND METHODS

Procedures. The starting point for preparing this checklist was the online version of Eschmeyers's Catalog of Fishes by Fricke, Eschmeyer and van der Laan. From this database lists of recent nominal species and genera of the order Characiformes plus associated taxonomic information were extracted electronically. Experts were then invited to review, correct, and include additional information about taxa of their expertise. Information provided by those experts were checked and returned to them for corrections and /or to clarify any information that remained obscure or missing. This process was carried out in mainly three phases, after which information provided by the experts were combined and used as the basis for generating the text of this checklist. Family-group names were derived from Van der Laan *et al.* (2014) and the information that was checked included: author, date of publication and type genus. "Additional comments" or "Remarks" sections were used to provide information that helped clarify any other aspect related to the name. Information about fossil taxa were gathered separately by Maria Claudia Malabarba and include only species groups names presented in alphabetical order followed by the family to which they are currently assigned. Information on older literature were obtained from that listed in the Biodiversity Heritage Library.

Spreadsheets, macros, and programs developed for this project. One of the main challenges to organizing this checklist involved dealing with information provided independently by many collaborators and combining everything into a single, coherent publication. Preliminary data were organized in spreadsheets in which information could be checked and edited and new information included in columns. In addition, several computer algorithms were developed for different tasks throughout the process. This helped us to check, compare, split, combine, and reorder information for different taxa. Spreadsheets, computer macros and programs were developed by Eduardo G. Baena for:

- 1) Extracting and compiling preliminary spreadsheets of species and genus names and information from Eschmeyers's Catalog of Fishes by Fricke, Eschmeyer and van der Laan;
- 2) Splitting the spreadsheet that included all nominal species and grouping them according to genus and family;
- 3) Partially checking information provided by collaborators;
- 4) Checking and organizing bibliographic citations;
- 5) Checking information of all references cited;
- 6) Standardizing information that was equal throughout the text;
- 7) Generating the text version of the catalog from the spreadsheets;
- 8) Associating information from the three main spreadsheets (species, genus, family).

Organization of the checklist. Taxa are listed hierarchically at the levels of family, genera and species and are arranged alphabetically within each category. Intermediate levels (*i.e.*, subfamilies, tribes, subgenera, and subspecies) are not used. Family membership of Neotropical species follows Oliveira *et al.* (2011), with the addition of the Tarumaniidae (de Pinna *et al.*, 2017). African families include Citharinidae and Distichodontidae (Vari, 1979), Hepsetidae (Vari, 1995) and Alestidae with the latter two discussed by Mirande

(2018). The families considered herein are: Acestrorhynchidae, Alestidae, Anostomidae, Bryconidae, Chalceidae, Characidae, Chilodontidae, Citharinidae, Crenuchidae, Ctenoluciidae, Curimatidae, Cynodontidae, Distichodontidae, Erythrinidae, Gasteropelecidae, Hemiodontidae, Hepsetidae, Iguanodectidae, Lebiasinidae, Parodontidae, Prochilodontidae, Serrasalminidae, Tarumaniidae and Triportheidae.

Collaborators in charge of reviewing and completing the taxonomic information are listed after the respective taxon name (family or genus).

Type localities are presented as they are in the original description (except, for consistency, “O” changed to “W” for longitudinal coordinates), followed, when necessary, by additional information (in square brackets) that clarifies or updates the information from the original description.

Only primary types are reported. Catalog numbers were not always verified, but in many cases, information that helped clarify any aspect related to the type(s) of the species are enclosed in brackets after the type catalog number. Museum codes of collections that house primary type specimens of nominal species of Characiformes follow Sabaj (2020, 2022).

Page numbers listed for accounts of genera or species refer to the first page in which the name is made available. In case where the page is unnumbered, its number is interpreted from other sources and indicated in square brackets. Figure numbers refer to that of the primary types only. If the figure is not numbered, the page in which it appears is indicated.

The geographic distribution of valid species is presented as numbers that correspond to areas for which there is a record of occurrence of the species. Such areas are those defined in Abell *et al.* (2008) and refer to the subdivisions of the freshwater ecoregions of the world (Figs. 1–5). We believe that expressing the distributions in terms of occurrence in those areas will facilitate future comparisons of species distributional patterns. The use of those numbers for fossil species is intended exclusively to show their geographic location. A number followed by the letter “a” (*e.g.*: 1a, 2a) indicates that the source of the record is from unpublished work such as monographs, dissertations, or theses. A number followed by an asterisk indicates that the source of the record derived from personal observation of contributor of section. A number followed by the letter “i” indicates the species has been introduced in the area represented by the number.

Species currently considered as valid but of uncertain generic assignment are listed under the genus in which the species was originally described, with comments on their generic assignment discussed under “Remarks” of the species account. Valid genera of uncertain family placement, and any species associated with that generic name are listed as Characiformes *Incertae sedis*.

Species names of uncertain status that could not be treated as valid or as a synonym of another name, are listed at the end of the taxon to which their assignment could be confidently made under the heading Species *inquirenda* for species name or Genus *inquirendum* for generic names. Names that could not be assigned to any family are treated as Characiformes *inquirendae*.

Names based on fossils are preceded by a dagger (†). Some of those names have been treated as Characiformes by other authors, based on ambiguous evidence. We chose to include those names in the current list but indicated them as Name wrongly treated as Characiformes. A list of unavailable names was included at the end of the text since some of those names may still need additional research to certify their status.

RESULTS

The list presented below is believed to be complete through 2022. We listed 3,087 species group names of which 2,334 are currently treated as valid and assigned to 301 genera and 24 families (Tab. 1). This total includes 25 species known only from the fossil record, of which 21 are assigned to eight extant families and four are *Incertae sedis* in Characiformes, but does not include five species based on fossil remains wrongly treated in Characiformes. There are 2,309 valid recent species, of which 2,065 occur in the Neotropical region and 244 belong to the four African families Alestidae, Citharinidae, Distichodontidae and Hepsetidae.

In the last two decades, 660 characiform species were described (624 from the Neotropical region and 36 from Africa) (Tab. 2). The taxonomic status of some of those species has already been reviewed and currently, 644 of those species (609 Neotropical and 35 from Africa) are considered as valid, including 11 based on fossils.

TABLE 1 | Numbers of nominal and valid characiform genera and species and unplaced species-group names by family, through the end of 2022. Fossil taxa included in generic and species totals and also listed separately.

Family	Nominal genera	Valid genera	Nominal species	Valid species	Species inquirendae	Fossil genera	Fossil species
Acestrorhynchidae	14	8	39	31	–	–	–
Alestidae	37	24	197	131	2	4	10
Anostomidae	26	16	197	145	8	–	1
Bryconidae	11	4	92	52	2	–	2
Chalceidae	3	1	9	5	–	–	–
Characidae	221	146	1,496	1,236	42	2	3
Chilodontidae	4	2	10	8	–	–	–
Citharinidae	4	3	13	8	1	–	–
Crenuchidae	18	11	124	114	1	–	–
Ctenoluciidae	6	2	13	7	–	–	–
Curimatidae	36	9	183	121	–	1	2
Cynodontidae	7	3	10	8	–	–	–
Distichodontidae	35	16	144	109	–	–	–
Erythrinidae	9	4	38	18	8	1	1
Gasteropelecidae	5	3	21	9	–	–	–
Hemiodontidae	12	5	47	34	–	–	–
Hepsetidae	3	1	8	6	–	–	–
Iguanodectidae	9	3	42	39	–	–	–
Lebiasinidae	11	6	93	74	1	–	–
Parodontidae	5	3	45	32	–	–	–
Prochilodontidae	8	3	48	21	2	–	–
Serrasalminidae	30	18	178	99	12	1	1
Tarumaniidae	1	1	1	1	–	–	–
Triportheidae	8	5	35	22	–	1	1
Characiformes <i>Incertae sedis</i>	4	4	4	4	–	4	4
Total taxa	527	301	3,087	2,334	79	14	25

In the last comprehensive checklist of Neotropical freshwater fishes, Reis *et al.* (2003) estimated that there were 515 undescribed species of Characiformes from that region and predicted that estimate was low. For recent taxa, 602 currently valid species were described for the region in the last two decades (Tab. 3). Considering each family separately, the number of recent species described in this period compared to the previous estimates of Reis *et al.* (2003) were higher for the Anostomidae (29 *vs.* 25, respectively); Crenuchidae (38 *vs.* 30); Chilodontidae (1 *versus* 0); Curimatidae (19 *vs.* 10); Lebiasinidae (14 *vs.* 12) and the Parodontidae (9 *versus* 6). Reis *et al.* (2003) estimated that there were 400 undescribed species in the Characidae. Their concept of the family encompassed taxa that herein are moved to the families Acestrorhynchidae, Bryconidae, Chalceidae, Iguanodectidae, Serrasalminidae and Triportheidae (Tab. 3). In the last 20 years, a total of 480 valid species were added to the Characidae of Reis *et al.* (2003), an increase in 20% of the diversity of this group. Nineteen genera of Recent species were described for the same Characidae during this time of which 16 are currently considered as valid. With a total of 146 valid genera (including two fossils) and 1,236 currently recognized species (including three fossils) the

TABLE 2 | Numbers of characiform genera and species described in the last 20 years, grouped by ten-year intervals (2003–2012; and 2013–2022). Fossil taxa included in generic and species totals and also indicated separately in parentheses followed by number of valid taxa if lower than number of described taxa.

Family	Genera (2003–2012)	Species (2003–2012)	Genera (2013–2022)	Species (2013–2022)
Acestrorhynchidae	0	0	0	3
Alestidae	0	10 (3 fossil)	1	6
Anostomidae	1	13 (12 valid)	2	17
Bryconidae	0	2	0	6 (1 fossil)
Chalceidae	0	3	0	0
Characidae	12 (1 fossil; 9 valid)	224 (2 fossil; 217 valid)	8	223 (218 valid)
Chilodontidae	0	1	0	0
Citharinidae	0	0	0	0
Crenuchidae	0	5	0	33
Ctenoluciidae	0	0	0	0
Curimatidae	0	5	0	15 (14 valid)
Cynodontidae	0	0	0	0
Distichodontidae	0	6	0	10
Erythrinidae	1 (fossil)	3 (1 fossil)	0	4
Gasteropelecidae	0	0	0	0
Hemiodontidae	0	2	0	3
Hepsetidae	0	1 (currently invalid)	0	2
Iguanodectidae	0	3	0	9
Lebiasinidae	0	11 (10 valid)	0	4
Parodontidae	0	9	0	0
Prochilodontidae	0/0	0	0/0	0/0
Serrasalminidae	1 (fossil)	6 (1 fossil)	0	14
Tarumaniidae	0	0	1	1
Triportheidae	0	3	0	0
Characiformes <i>Incertae sedis</i>	2	2 (2 fossil)	0	1 (fossil)
Total taxa	17 (5 fossils; 14 valid)	309 (9 fossil; 299 valid)	12	351 (2 fossil; 345 valid)

Characidae, as considered herein, is the taxonomically most diverse characiform family, representing more than half of the diversity of the order (*ca.* 53%). The Anostomidae, Curimatidae, Crenuchidae, and Serrasalminidae are, in this order, the next most speciose Neotropical families in the order with numbers of species ranging between *ca.* 100 and 150 (Tab. 1). During this period, genera based on both fossil and Recent species were also proposed for other characiform families, three for the Anostomidae and one (*Tarumania*) for a new Neotropical family, the Tarumaniidae (de Pinna *et al.*, 2017).

The African component of the characiform diversity is concentrated in the Alestidae and Distichodontidae with 121 and 109 valid recent species, respectively placing these families among the most speciose of the order. In the last two decades, 16 species were described for each of these families, of which three are based on fossil alestids. The other two families, Citharinidae and Hepsetidae have 8 and 6 species, respectively. Recent taxonomic studies of the Hepsetidae (Decru *et al.*, 2013; Decru *et al.*, 2015), with the single genus *Hepsetus* (considered monotypic up to 2011), resulted in the revalidation of three species and the description of two new valid species. No species were described for the Citharinidae in the last two decades.

TABLE 3 | Number of Neotropical valid recent characiform genera and species recognized in Reis *et al.* (2003) with taxa broken down by current treatment of families (Oliveira *et al.*, 2011) and number of Neotropical valid recent genera and species described between 2003–2022. *The Tarumaniidae was proposed only in 2017.

Family	Valid genera (Reis <i>et al.</i> , 2003)	Valid species (Reis <i>et al.</i> , 2003)	Valid genera described 2003–2022	Valid species described 2003–2022
Acestrorhynchidae	8	29	0	3
Anostomidae	12	138	3	29
Bryconidae	4	46	0	7
Chalceidae	1	2	0	3
Characidae	138	771	16	433
Chilodontidae	2	7	0	1
Crenuchidae	12	73	0	38
Ctenoluciidae	2	7	0	0
Curimatidae	8	97	0	19
Cynodontidae	3	8	0	0
Erythrinidae	3	15	0	6
Gasteropelecidae	3	9	0	0
Hemiodontidae	5	28	0	5
Iguanodectidae	3	27	0	12
Lebiasinidae	7	61	0	14
Parodontidae	3	23	0	9
Prochilodontidae	3	21	0	0
Serrasalminidae	14	80	0	19
Tarumaniidae	*	*	1	1
Triportheidae	5	18	0	3
Total valid taxa	239	1,460	20	602

CHARACIFORMES



FIGURE 1 | Map of South America with area delimitation based on Abell *et al.*'s 2008 (Freshwater ecoregions of the world): 301 North Andean Pacific Slopes–Río Atrato; 302 Magdalena–Sinu; 303 Maracaibo; 304 South America Caribbean Drainages–Trinidad; 305 Orinoco High Andes; 306 Orinoco Piedmont; 307 Orinoco Llanos; 308 Orinoco Guiana Shield; 309 Orinoco Delta and Coastal Drainages; 310 Essequibo; 311 Guianas; 312 Amazonas High Andes; 313 Western Amazon Piedmont; 314 Rio Negro; 315 Amazonas Guiana Shield; 316 Amazonas Lowlands; 317 Ucayali–Urubamba Piedmont; 318 Mamoré–Madre de Dios Piedmont; 319 Guaporé–Itenez; 320 Tapajós–Juruena; 321 Madeira Brazilian Shield; 322 Xingu; 323 Amazonas Estuary and Coastal Drainages; 324 Tocantins–Araguaia; 325 Parnaíba; 326 Northeastern Caatinga and Coastal Drainages; 327 São Francisco; 328 Northeastern Mata Atlântica; 329 Paraíba do Sul; 330 Ribeira de Iguape 331 Southeastern Mata Atlântica; 332 Lower Uruguay; 333 Upper Uruguay; 334 Laguna dos Patos; 335 Tramandaí–Mampituba; 336 Central Andean Pacific Slopes; 337 Titicaca; 338 Atacama; 339 Mar Chiquita–Salinas Grandes; 340 Cuyan–Desaguadero; 341 South Andean Pacific Slopes; 342 Chaco; 343 Paraguay; 344 Upper Paraná; 345 Lower Paraná; 346 Iguassu; 347 Bonaerensean Drainages; 348 Patagonia; 349 Valdivian Lakes; 350 Galápagos Islands; 351 Juan Fernandez Island; 352 Fluminense. Not all the regions indicated on the map have records of characiformes.

ACESTRORHYNCHIDAE Eigenmann, 1912

Acestrorhynchinae Eigenmann, 1912a:406. Type genus: *Acestrorhynchus* Eigenmann, Kennedy, 1903.

Heterocharacini Géry, 1966c:281. Type genus: *Heterocharax* Eigenmann, 1912.

Roestinae Lucena, Menezes, 1998:268. Type genus: *Roestes* Günther, 1864. Additional comments: Roestinae appeared first in the abstract on page 261, but the new name is formally defined on page 268.

ACESTRORHYNCHUS Eigenmann, Kennedy, 1903

M Toledo-Piza

Xiphorhynchus Agassiz, in Spix, Agassiz, 1829:76. Type species: *Salmo falcatus* Bloch, 1794. Type by subsequent designation by Jordan, 1917:132. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Hydrocyon*. Preoccupied by *Xiphorhynchus* Swainson, 1827, in Aves.

Xiphorhamphus Müller, Troschel, 1844:92. Type species: *Salmo falcatus* Bloch, 1794. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Xiphorhynchus* Agassiz, 1829. Preoccupied by *Xiphorhamphus* Blyth, 1843, in Aves.

Acestrorhynchus Eigenmann, Kennedy, 1903:527. Type species: *Salmo falcatus* Bloch, 1794. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Xiphorhamphus* Müller, Troschel.

Sphyraenocharax Fowler, 1907:460. Type species: *Xiphorhamphus abbreviatus* Cope, 1878. Type by original designation. Gender: Masculine.

Acestrorhynchus abbreviatus (Cope, 1878)

Xiphorhamphus abbreviatus Cope, 1878:687. Type locality: Peruvian Amazon. [In the description Cope (1878) mentioned collections of 1873 (larger part originated from Nauta) and 1877 (partly obtained near Pebas). The year 1877 appears on the label of lectotype (ANSP 21532)]. Lectotype: ANSP 21532. [Designated by Fowler (1907:461, fig. 49). Treated as holotype by Böhlke (1984:42)].

Distribution: 316, 317, 318a, 321, 319a (Menezes, 1992).

Remarks: Species recorded for the Peruvian Amazon but distributional limits are difficult to define due to taxonomic uncertainty (Paradedá, 2015).

Acestrorhynchus altus Menezes, 1969

Acestrorhynchus altus Menezes, 1969:52, 118, fig. 38. Type locality: Rio Arari in Cachoeira do Arari, Ilha de Marajó, Pará. [Brazil]. Holotype: MCZ 45256.

Distribution: 323 (Menezes, 1969; Menezes, 1992).

Remarks: Species recorded for the Lower Amazon Basin but distributional limits are difficult to define due to taxonomic uncertainty (Paradedá, 2015).

Acestrorhynchus britskii Menezes, 1969

Acestrorhynchus britskii Menezes, 1969:58, 118, fig. 42. Type locality: Represa de Três Marias, Rio São Francisco basin in Minas Gerais. [Brazil]. Holotype: MZUSP 4406.

Distribution: 327 (Menezes, 1969; Menezes, Gery, 1983).

Acestrorhynchus falcatus (Bloch, 1794)

- Salmo falcatus* Bloch, 1794:120, Pl. 385. Type locality: Suriname. [In the original description Bloch (1794) mentioned he received the fish from the Governor of Suriname]. Syntypes: ZMB 3613 (2). [See Paepke (1999) and Zarske (2012b:339)] for information on types].
- Salmo pulverulentus* Linnaeus, 1758:312. Type locality: America. Holotype: NRM 7249. Name mentioned in Lacepède (1803:274), but apparently never used as a valid name. Included in the synonymy of *Acestrorhynchus falcatus* (Bloch, 1794) in Menezes (2003).
- Xiphorhamphus ferox* Günther, 1863:443. Type locality: Essequibo, Guiana. [Guyana]. Syntypes: BMNH 1964.1.21.39–40 (2).
- Acestrorhynchus falcatus varius* Menezes, 1969:40, fig. 25. Type locality: Cachimbo, Pará, Tapajós River basin. [Brazil]. Holotype: MZUSP 4560.
Distribution: 308, 309, 310, 311, 314, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 343 (Menezes, 1969; Menezes, Gery, 1983; López-Fernández, Winemiller, 2003; Toledo-Piza *et al.*, 2013; Paradedda, 2015).
- Acestrorhynchus falcistrostris*** (Cuvier, 1819)
Hydrocyon falcistrostris Cuvier, 1819:361, Pl. 27 (fig. 2). Type locality: Brésil. [Brazil]. Holotype: MNHN A–8604 (poor condition).
Distribution: 307, 310, 311, 313, 315, 314, 316, 317, 318, 321, 322, 323, 324 (Menezes, 1969; Menezes, Gery, 1983; Toledo-Piza *et al.*, 2013).
- Acestrorhynchus grandoculis*** Menezes, Géry, 1983
Acestrorhynchus grandoculis Menezes, Géry, 1983:582, fig. 8. Type locality: Mouth of Rio Urubaxi in Rio Negro, State of Amazonas, Brazil. Holotype: MZUSP 25863.
Distribution: 307, 314, 316, 321 (Menezes, Gery, 1983; Toledo-Piza, Menezes, 1996; Toledo-Piza *et al.*, 2013).
- Acestrorhynchus heterolepis*** (Cope, 1878)
Xiphorhamphus heterolepis Cope, 1878:687. Type locality: Peruvian Amazon. [In the description Cope (1878) mentioned collections of 1873 (larger part originated from Nauta) and 1877 (partly obtained near Pebas)]. Lectotype: ANSP 21246. [Designated by Fowler (1907:462, fig. 50). Treated as holotype by Böhlke (1984:48)].
Distribution: 307, 310, 314, 316, 319, 321, 325* (Menezes, 1969; Toledo-Piza *et al.*, 2013; López-Fernández, Winemiller, 2003; Toledo-Piza, pers. obs.).
- Acestrorhynchus isalineae*** Menezes, Géry, 1983
Acestrorhynchus isalineae Menezes, Géry, 1983:577, figs. 5–6. Type locality: Tributary of Rio dos Marmelos (Rio Madeira basin) 110 kilometers east of Humaitá along rodovia Transamazônica, State of Amazonas, Brazil. Holotype: MZUSP 25849.
Distribution: 321 (Menezes, Gery, 1983; Toledo-Piza *et al.*, 2013).
- Acestrorhynchus lacustris*** (Lütken, 1875)
Xiphorhamphus lacustris Lütken, 1875c:136 [10]. Type locality: Lagoa Santa. [Minas Gerais State, Brazil]. Syntypes: ZMUC 185 (1), 187–188 (2), 194 (1), 196 (1); MNHN 0000–9587 (1); SMNS 2042 (1); ZMB 9192 (1).
Distribution: 327, 344 (Menezes, 1969; Menezes, 1992).
- Acestrorhynchus maculipinna*** Menezes, Géry, 1983
Acestrorhynchus maculipinna Menezes, Géry, 1983:579, fig. 7. Type locality: Rio Preto da Eva, between Manaus and Itacoatiara, State of Amazonas, Brazil. Holotype:

MZUSP 25861.

Distribution: 316 (Menezes, Gery, 1983).

Acestrorhynchus microlepis (Jardine, 1841)

Hydrocyon microlepis Jardine, in Schomburgk, 1841:247. Type locality: Rios Negro and Branco as well as in the Essequibo. [Menezes (1969) restricted the type locality to the Essequibo River, Guyana]. No types known. [See Toledo-Piza, Menezes (1996) for information about types].

Acestrorhynchus cachorro Fowler, 1940a:274, fig. 61. Type locality: Ucayali River basin, Boca Chica, Peru. Holotype: ANSP 68679. [Holotype pictured in Toledo-Piza, Menezes (1996: fig. 8)].

Acestrorhynchus guianensis Menezes, 1969:70, 120, fig. 54. Type locality: Botanic Garden, [British] Guyana (trenches in Georgetown with water from the Demerara River). Holotype: FMNH 74359. [Holotype pictured in Toledo-Piza, Menezes (1996: fig. 7)].

Acestrorhynchus apurensis Toledo-Piza, Menezes, 1996:18, fig. 10. Type locality: Venezuela, Modulo de la UNELLEZ, Estado Apure. [Río Apure drainage, Río Orinoco]. Holotype: MZUSP 48373. Synonymy proposed by López-Fernández, Winemiller (2003).

Distribution: 307, 308, 311, 316, 317, 318, 319, 320, 321, 322, 323, 324 (Toledo-Piza, Menezes 1996; Toledo-Piza *et al.*, 2013; López-Fernández, Winemiller, 2003).

Acestrorhynchus minimus Menezes, 1969

Acestrorhynchus minimus Menezes, 1969:78, 120, fig. 60. Type locality: Lago Jacaré, Rio Trombetas, Amazon River basin. [Brazil]. Holotype: MZUSP 4608.

Distribution: 307, 308, 314, 315, 316, 319, 321, 323 (Menezes, 1969; Toledo-Piza *et al.*, 2013; López-Fernández, Winemiller, 2003).

Acestrorhynchus nasutus Eigenmann, 1912

Acestrorhynchus nasutus Eigenmann, 1912a:411, Pl. 61 (fig. 4). Type locality: Rockstone. [Guyana]. Holotype: FMNH 53475.

Distribution: 307, 310, 314, 316, 320*, 323* (Menezes, 1969; Menezes, Gery, 1983; López-Fernández, Winemiller, 2003; Toledo-Piza, pers. obs.).

Acestrorhynchus pantaneiro Menezes, 1992

Acestrorhynchus pantaneiro Menezes, 1992:42, fig. 1. Type locality: Rio Cuiabá, Volta Grande, município de Santo Antônio do Leverger, Mato Grosso (aproximadamente - 16°S, 56°W). [Brazil]. Holotype: MZUSP 40256.

Salmo 26-radiatus Larrañaga, 1923:388. Type locality: Uruguay. No types known. Appeared as *Salmo denticulosus vel 26-radiatus* and *Salmo 26-radiatus* in Devincenzi, 1925:312, 322, respectively and treated as synonym of *Acestrorhynchus falcatus* (Bloch, 1794). Included as *Salmo denticulosus vel 26-radiatus* under Species inquirenda (Characidae) in Lima *et al.* (2003:159); Litz, Koerber (2014) equated it to *Acestrorhynchus pantaneiro* Menezes, 1992. Question of priority over *A. pantaneiro* not addressed.

Salmo denticulosus Larrañaga, 1923:388. Type locality: Uruguay. No types known. Appeared as *Salmo denticulosus vel 26-radiatus* and *Salmo denticulosus* in Devincenzi, 1925:312, 322, respectively and treated as synonym of *Acestrorhynchus falcatus* (Bloch, 1794). Included as *Salmo denticulosus vel 26-radiatus* under species inquirenda (Characidae) in Lima *et al.* (2003:159); Litz, Koerber (2014) equated

it to *Acestrorhynchus pantaneiro* Menezes, 1992. Question of priority over *A. pantaneiro* not addressed.

Distribution: 342, 343, 345 (Menezes, 1992; Toledo-Piza *et al.*, 2013).

Remarks: Species recorded for Rio Paraguay basin, but distributional limits are difficult to define due to unclear taxonomic limits of species (Paradedá, 2015).

GILBERTOLUS Eigenmann, 1907

CAS Lucena

Gilbertella Eigenmann, 1903:147. Type species: *Anacyrtus (Raestes) alatus* Steindachner, 1878. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Gilbertella* Waite, 1902 in fishes, replaced by *Gilbertolus* Eigenmann, 1907.

Gilbertolus Eigenmann, in Eigenmann, Ogle, 1907:2, 3. Type species: *Anacyrtus (Raestes) alatus* Steindachner, 1879. Type by being a replacement name. Gender: Masculine.

Gilbertolus alatus (Steindachner, 1878)

Anacyrtus (Raestes) alatus Steindachner, 1878:91. Type locality: ...seeartig ausgebreiteten Ciénega, welche der MagdalenenStrom mit einem seiner östlich gelegenen hauptarme kurz vor seiner Mündung in das Meer bildet. [Ciénaga, Río Magdalena, Colombia]. Holotype: NMW 14998.

Distribution: 303, 302 (Menezes, Lucena, 1998).

Gilbertolus atratoensis Schultz, 1943

Gilbertolus alatus atratoensis Schultz, 1943:275. Type locality: at Quibdo, Río Atrato, Colombia. Holotype: USNM 76976.

Distribution: 301 (Menezes, Lucena, 1998; Schultz, 1943).

Gilbertolus maracaiboensis Schultz, 1943

Gilbertolus alatus maracaiboensis Schultz, 1943:273. Type locality: in a caño half a mile west of Sinamaica, Estado de Zulia, Venezuela. Holotype: USNM 121386.

Distribution: 303 (Menezes, Lucena, 1998; Schultz, 1943).

GNATHOCHARAX Fowler, 1913

GMT Mattox

Gnathocharax Fowler, 1913b:560. Type species: *Gnathocharax steindachneri* Fowler, 1913. Type by original designation. Gender: Masculine.

Gnathocharax steindachneri Fowler, 1913

Gnathocharax steindachneri Fowler, 1913b:561, fig. 19. Type locality: Igarapé de Candelaria, tributary of the Madeira River, and approximately two miles distant, 8°45'S, 63°54'W, Brazil. Holotype: ANSP 39309.

Distribution: 307, 308*, 309*, 310, 314, 315*, 316, 318*, 319, 320*, 321, 323* (Böhlke, 1955a; Toledo-Piza, pers. obs.).

HETEROCHARAX Eigenmann, 1912

GMT Mattox

Heterocharax Eigenmann, 1912a:258, 405. Type species: *Heterocharax macrolepis*

Eigenmann, 1912. Type by original designation. Gender: Masculine.

Heterocharax leptogrammus Toledo-Piza, 2000

Heterocharax leptogrammus Toledo-Piza, 2000b:301, fig. 13. Type locality: Brazil: Amazonas: rio Arirará, near mouth, 0° 20'S, 63° 40'W. Holotype: MZUSP 29229. Distribution: 307, 308, 314 (Toledo-Piza, 2000b).

Heterocharax macrolepis Eigenmann, 1912

Heterocharax macrolepis Eigenmann, 1912a:406, Pl. 61 (fig. 2). Type locality: Rockstone, British Guiana. [Guyana]. Holotype: FMNH 53669. Distribution: 307, 308, 311, 313, 314, 316, 321 (Toledo-Piza, 2000b).

Heterocharax virgulatus Toledo-Piza, 2000

Heterocharax virgulatus Toledo-Piza, 2000b:298, figs. 4–7, 10–11. Type locality: rio Negro at the confluence with Río Urubaxi, 0° 35'S, 64° 45'W, Amazonas, Brazil. Holotype: MZUSP 29226. Distribution: 307, 308, 314, 316 (Toledo-Piza, 2000b).

HOPLOCHARAX Géry, 1966

GMT Mattox

Hoplocharax Géry, 1966c:286. Type species: *Hoplocharax goethei* Géry, 1966. Type by original designation. Gender: Masculine.

Hoplocharax goethei Géry, 1966

Hoplocharax goethei Géry, 1966c:291, figs. 7–11. Type locality: “Igarapé da Mae Joana” near Manaus, lower Rio Negro, Brazil. Holotype: SU 56478. Distribution: 307*, 308*, 314, 316* (Géry, 1966c; Toledo-Piza, pers. obs.).

LONCHOGENYS Myers, 1927

GMT Mattox

Lonchogenys Myers, 1927:121. Type species: *Lonchogenys ilisha* Myers, 1927. Type by original designation. Gender: Feminine.

Lonchogenys ilisha Myers, 1927

Lonchogenys ilisha Myers, 1927:122. Type locality: Brazil: Sandbank on the Colombian border, Rio Negro, Cucuhy. Holotype: CAS 61719. Distribution: 307, 308, 314, 315* (Myers, 1927; Toledo-Piza, pers. obs.).

PRIOCHARAX Weitzman, Vari, 1987

M Toledo-Piza

Priocharax Weitzman, Vari, 1987:641. Type species: *Priocharax ariel* Weitzman, Vari, 1987. Type by original designation. Gender: Masculine.

Priocharax ariel Weitzman, Vari, 1987

Priocharax ariel Weitzman, Vari, 1987:641, figs. 1–5. Type locality: Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Manu, tributary of Río Casiquiare approximately 250m upstream from Solano, 2° 00'N, 66° 57'W. Holotype: MBUCV-V-15340.

Distribution: 314 (Weitzman, Vari, 1987; Mattox *et al.*, 2022).

Priocharax britzi Mattox, Souza, Toledo-Piza, Oliveira, 2021

Priocharax britzi Mattox, Souza, Toledo-Piza, Oliveira, 2021:5, figs. 1–5. Type locality: Brazil, Amazonas, Canutama, small lake approximately 400 m from the rio Ipixuna, after bridge crossing this river, on the right side of the Transamazônica Road (BR-230) going from Humaitá to Lábrea, rio Ipixuna drainage, upper Purus basin, 07°31'11.46"S 63°20'59.58"W. Holotype: MZUSP 125822.

Distribution: 316 (Mattox *et al.*, 2021).

Priocharax nanus Toledo-Piza, Mattox, Britz, 2014

Priocharax nanus Toledo-Piza, Mattox, Britz, 2014:231, figs. 1–4. Type locality: Brazil, Amazonas, Santa Isabel do Rio Negro, rio Negro basin, lake at right bank of rio Urubaxi, near Igarapé Tapage, 0°33'44.2"S 64°49'40.8"W. Holotype: MZUSP 114014.

Distribution: 314 (Toledo-Piza *et al.*, 2014).

Priocharax pygmaeus Weitzman, Vari, 1987

Priocharax pygmaeus Weitzman, Vari, 1987:646, fig. 6. Type locality: Colombia, Departamento Amazonas, in Quebrada Pajarito, tributary of Quebrada Matamata, a tributary of Río Amazonas, northwest of Leticia, about 04°41'S, 69°57'W. Holotype: NRM 15048.

Distribution: 316 (Weitzman, Vari, 1987; Mattox *et al.*, 2020).

Priocharax varii Mattox, Souza, Toledo-Piza, Britz, Oliveira, 2020

Priocharax varii Mattox, Souza, Toledo-Piza, Britz, Oliveira, 2020:419, figs. 1–4. Type locality: Brazil, Rondônia, Candeias do Jamari, Rio Preto approximately 12km South from road BR-364, before bridge crossing the river, Rio Jamari drainage, 08°52'53.5"S, 63°37'50.8"W. Holotype: MZUSP 125786.

Distribution: 321 (Mattox *et al.*, 2020).

ROESTES Günther, 1864

CAS Lucena

Lycodon Kner, 1860:52. Type species: *Cynopotamus molossus* Kner, 1858. Type by monotypy. Gender: Masculine. Additional comments: Preoccupied by *Lycodon* Fitzinger, 1826 in Reptilia.

Roestes Günther, 1864:345, 347. Type species: *Cynopotamus molossus* Kner, 1858. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Anacyrtus* Günther, 1864:345.

Xiphocharax Fowler, 1914a:251. Type species: *Xiphocharax ogilviei* Fowler, 1914. Type by original designation. Gender: Masculine.

Roestes itupiranga Menezes, Lucena, 1998

Roestes itupiranga Menezes, Lucena, 1998:289, fig. 7. Type locality: Brazil, Pará, Lago Grande, Itupiranga, Rio Tocantins. Holotype: INPA 10267.

Distribution: 324 (Menezes, Lucena, 1998).

Roestes molossus (Kner, 1858)

Cynopot. molossus Kner, 1858b:168 [8]. Type locality: aus Matogrosso, Rio Guaporé und von Caiçara. [Brazil; Information about type locality cited later by Kner

(1860)]. Syntypes: NMW 68754–55 (2, 2), 92856 (2).

Distribution: 319, 321 (Menezes, Lucena, 1998).

Roestes ogilviei (Fowler, 1914)

Xiphocharax ogilviei Fowler, 1914a:252, fig. 9. Type locality: Rupununi River, British Guiana. [Guyana]. Holotype: ANSP 39337.

Distribution: 310, 314, 316 (Menezes, Lucena, 1998).

ALESTIDAE Cockerell, 1910

Hydrocionini Bonaparte, 1835:18. Type genus: *Hydrocynus* Cuvier, 1816. Additional comments: Bonaparte (1835:18) misspelled Hydrocionini. Bonaparte (1837:7) changed to Hydrocyonini. Eigenmann (1909b:256) corrected to Hydrocyninae.

Miletidini Bonaparte, 1835:18. Type genus: no available type genus.

Alestini Cockerell, 1910:112. Type genus: *Alestes* Müller, Troschel, 1844. Additional comments: Name in prevailing recent practice.

Clupeocharacinae Pellegrin, 1926:159. Type genus: *Clupeocharax* Pellegrin, 1926.

Alestopetersiini Hoedeman, 1951:5. Type genus: *Alestopetersius* Hoedeman, 1951.

Bryconaethiopiini Hoedeman, 1951:2. Type genus: *Bryconaethiops* Günther, 1873. Additional comments: Fowler (1958:8) changed to Bryconaethiopsini.

Petersiini Poll, 1967:2. Type genus: *Petersius* Hilgendorf, 1894.

ALESTES Müller, Troschel, 1844

G Boden, D Geelhand de Merxem

Myletes Cuvier, 1814:75. Type species: *Salmo dentex* Hasselquist, 1762 (= *Cyprinus dentex* Linnaeus, 1758). Type by subsequent designation by Cuvier's disciples in 1839, see Géry (1972a). Gender: Masculine. Additional comments: Name was suppressed in ICZN Opinion 1813, 1995 and placed on the Official Index of Rejected and Invalid Generic names in Zoology.

Alestes Müller, Troschel, 1844:88. Type species: *Salmo niloticus* Linnaeus, 1758. Type by subsequent designation by Jordan (1919a). Gender: Masculine.

Alestiops Fowler, 1975:73. Type species: *Alestes macrophthalmus tanganicae* Hoedeman, 1951. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Alestes* by Hoedeman (1951); it included 5 species, but no type was established (Art. 13.3).

Alestes ansorgii Boulenger, 1910

Alestes ansorgii Boulenger, 1910:542. Type locality: Quanza River at Cunga and Dondo, and from the Lucalla River at Lucalla, Angola. Syntypes: ANSP 37964 (1) Quanza R.; BMNH 1910.11.28.60–62 (3) Lucalla River at Lucalla; BMNH 1910.11.28.63–64 (2) Quanza River at Dondo; BMNH 1910.11.28.65–70 (6) Quanza River at Cunga; ZMB 18206 (3) Quanza River at Cunga. [Syntype ZMB 18206 illustrated in Zarske (2011b) (Abb. 14b and Abb. 14c)].

Distribution: 551 (Boulenger, 1910; Stiassny *et al.*, 2009).

Remarks: Paugy (1986) regarded *Alestes ansorgii* Boulenger, 1910 as a subspecies of



FIGURE 2 | Map of Africa and part of the Middle East with area delimitation based on Abell *et al.*'s 2008 (Freshwater ecoregions of the world): 439 Southwestern Arabian Coast; 501 Atlantic Northwest Africa; 502 Mediterranean Northwest Africa; 503 Sahara; 504 Dry Sahel; 505 Lower Niger–Benue; 506 Niger Delta; 507 Upper Niger; 508 Inner Niger Delta; 509 Senegal–Gambia; 510 Fouta–Djalou; 511 Northern Upper Guinea; 512 Southern Upper Guinea; 513 Mount Nimba; 514 Eburneo; 515 Ashanti; 516 Volta; 517 Bight Drainages; 518 Northern Gulf of Guinea Drainages–Bioko; 519 Western Equatorial Crater Lakes; 520 Lake Chad; 521 Lake Victoria Basin; 522 Upper Nile; 523 Lower Nile; 524 Nile Delta; 525 Ethiopian Highlands; 526 Lake Tana; 527 Western Red Sea Drainages; 528 Northern Eastern Rift; 529 Horn of Africa; 530 Lake Turkana; 531 Shebelle–Juba; 532 Ogooué–Nyanga–Kouilou–Niari; 533 Southern Gulf of Guinea Drainages; 534 Sangha; 535 Sudanic Congo–Oubangi; 536 Uele; 537 Cuvette Centrale; 538 Tumba; 539 Upper Congo Rapids; 540 Upper Congo; 541 Albertine Highlands; 542 Lake Tanganyika; 543 Malagarasi–Moyowosi; 544 Bangweulu–Mweru; 545 Upper Lualaba; 546 Kasai; 547 Mai Ndombe; 548 Malebo Pool; 549 Lower Congo Rapids; 550 Lower Congo; 551 Cuanza; 552 Namib; 553 Etosha; 554 Karstveld Sink Holes; 555 Zambezi Headwaters; 556 Upper Zambezi Floodplains; 557 Kafue; 558 Middle Zambezi–Luangwa; 559 Lake Malawi; 560 Zambezi Highveld; 561 Lower Zambezi; 562 Mulanje; 563 Eastern Zimbabwe Highlands; 564 Coastal East Africa; 565 Lake Rukwa; 566 Southern Eastern Rift; 567 Tana, Athi, and Coastal Drainages; 568 Pangani; 569 Okavango; 570 Kalahari; 571 Southern Kalahari; 572 Western Orange; 573 Karoo; 574 Drakensberg–Maloti Highlands; 575 Southern Temperate Highveld; 576 Zambezi Lowveld; 577 Amatolo–Winterberg Highlands; 578 Cape Fold; 579 Western Madagascar; 580 Northwestern Madagascar; 581 Madagascar Eastern Highlands; 582 Southern Madagascar; 583 Madagascar Eastern Lowlands; 584 Comoros–Mayotte; 585 Seychelles; 586 Mascarenes; 587 S. Tome and Principe–Annobon. Not all the regions indicated on the map have records of characiforms.

Alestes macrophthalmus Günther, 1867, but this was not confirmed by Striassny *et al.* (2009) and Zarske (2011b).

Alestes baremoze (Joannis, 1835)

Myletes baremoze Joannis, 1835: no page number, Pl. 6. Type locality: Thèbes, Nil. [Nile, Egypt]. Syntypes: MNHN A-9712 (3).

Alestes kotschy Heckel, 1847:308, Pl. 21 (fig. 4). Type locality: Assuan, Ägypten. [Egypt]. Syntypes: NMW 16630 (1, dry); NMW 66687 (2).

Alestes (Alestes) wytsi Steindachner, 1870:542 [10], Pl. 2 (fig. 1). Type locality: Senegal. Syntypes: ?MCZ 4008 (4); NMW 76206 (2), 54790 (4), 54793 (7), 66755 to 66773 (4, 5, 8, 4, 2, 5, 2, 3, 4, 4, 3, 2, 2, 2, 2, 4, 2, 5, 2). [MCZ 4008 (4) is considered a questionable syntype and treated as a type at MCZ. The specific locality of this type is Dagana R. at Bakel, Senegal].

Alestes splendens Werner, 1906:1127. Type locality: Mongalla, oberen Nil. [Nile, South Sudan]. No types known. [The original publication mentioned only one specimen from Mongalla].

Alestes baremoze tchadense Blache, 1964:74, fig. 30. Type locality: bassin du Chad et du bassin adjacent du Mayo Kebbi. [Type locality was not detailed, but all specimens were collected from the Lake Chad basin at different locations (Chari River delta, Fort-Lamy and the confluence of Chari and Logone Rivers) and Mayo Kebbi rapids]. Syntypes: (many). [The original description of this subspecies does not mention type specimens, but the description is based on many specimens caught in the Lake Chad basin and the Mayo Kebbi basin].

Alestes baremoze soudaniensis Paugy, 1986: 52. Type locality: Sénégal, Gambie, Tominé, Niger, Volta et Tchad [Senegal, Gambia, Corubal, Niger, Volta and Chad basins]. Syntypes: (many) [all specimens on which the description is based are to be considered as syntypes (collection specimens listed in material examined and those from which literature data is taken)].

Alestes baremoze eburneensis Paugy, 1986: 52. Type locality: Côte d'Ivoire: Sassandra, Bandama et Comoé. Syntypes: 9many) [all specimens on which the description is based are to be considered as syntypes (collection specimens listed in material examined and those from which literature data is taken)].

Distribution: 505, 506, 507, 508, 509, 510, 514, 516, 520, 522, 523, 525, 530 (Paugy, 1986; Bailey, 1994; Paugy, 2003; Getahun, 2007; Seegers *et al.*, 2003).

Alestes dentex (Linnaeus, 1758)

Cyprinus dentex Linnaeus, 1758:325. Type locality: Nilo [Nile]. Holotype: NRM 49. [see Fernholm, Wheeler (1983):214].

Salmo niloticus Linnaeus, 1758:312. Type locality: Nilo [Nile]. No types known.

Characinus niloticus Geoffroy St. Hilaire, 1809: 50, Pl. 4 (fig. 2). Type locality: Nil [Nile]. No types known.

Myletes hasselquistii Cuvier, 1818:449, Pl. 21 (fig. 2). Type locality: Nil [Nile]. Syntypes: MNHN 0000-6301 (1); MNHN A-9713 (5); MNHN A-9714 (1); MNHN A-9715 (1).

Alestes sethente Valenciennes, in Cuvier, Valenciennes, 1850:190. Type locality: Sénégal. Syntypes: MNHN A-9716 (5). According to Paugy (2003) two subspecies of *Alestes dentex* (Linnaeus, 1758) are generally recognised on the basis of differences in meristic characters: *A. dentex dentex* (Linnaeus, 1758) from

the Nile and *A. dentex sethente* (Valenciennes, 1850) from the Sudanese basins in West Africa.

Distribution: 505, 506, 507, 508, 509, 516, 520, 522, 523, 525, 530 (Paugy, 1986; Paugy, 2003; Getahun, 2007; Seegers *et al.*, 2003).

Remarks: Valenciennes, 1850 acted as first reviser in giving precedence of *Cyprinus dentex* Linnaeus over *Salmo niloticus* Linnaeus (ICZN Opinion 1813, 1995). *Salmo dentex* Hasselquist, 1762 is an unavailable name.

Alestes inferus Stiassny, Schelly, Mamonekene, 2009

Alestes inferus Stiassny, Schelly, Mamonekene, 2009:110, fig. 1. Type locality: Democratic Republic of Congo, Bas Congo Province, Mpozo River main channel at bridge near confluence with Congo River mainstream, 5°50'5"S, 13°29'42"E. Holotype: AMNH 242136.

Distribution: 550 (Stiassny *et al.*, 2009).

Alestes liebrechtsii Boulenger, 1898

Alestes liebrechtsii Boulenger, 1898b:29, Pl. 15. Type locality: Haut-Congo: Upoto, Umangi. [Democratic Republic of the Congo]. Syntypes: BMNH 1898.11.17.22 (1); RMCA 140 (1); RMCA 168 (1). [RMCA 122 is sometimes indicated as type, but this seems uncertain because the locality (= Leopoldville) and number of specimens do not correspond with the data in the original description].

Distribution: 534, 535, 536, 537, 538, 539, 540, 544, 545, 546, 548, 549 (Poll, Gosse, 1963b; Matthes, 1964b; Gosse, 1968; Roberts, Stewart, 1976; Paugy, 1986; Stiassny *et al.*, 2009; Mbimbi Mayi Munene, Stiassny, 2011).

Alestes macrophthalmus Günther, 1867

Alestes macrophthalmus Günther, 1867:113 [4]. Type locality: Gaboon. Holotype: BMNH 1867.5.3.25.

Alestes (Alestiops) macrophthalmus tanganicae Hoedeman, 1951:3. Type locality: Africa (no specific locality). [Type locality was not specified in the original description; species was described in an identification key following the study of supplementary material of African characid fishes from the Belgian Congo]. No types known.

Distribution: 505, 518, 532, 533, 534, 535, 536, 537, 539, 540, 542, 543, 544, 545, 546, 548 (RMCA fish collection; Poll, 1953; Gosse, 1968; Banister, Bailey, 1979; Paugy, 1986; De Vos *et al.*, 2001; Paugy, 2003; Paugy, Schaefer, 2007; Stiassny *et al.*, 2009; Van Steenberge *et al.*, 2014).

Alestes stuhlmannii Pfeffer, 1896

Alestes stuhlmannii Pfeffer, 1896:44. Type locality: Kingani-Fluss, Deutsch-Ost-Afrika. [Tanzania]. Syntypes: ZMB 13675 (2).

Alestes adolfi Steindachner, 1914b:537. Type locality: Deutsch-Ostafrika. [Steindachner (1916) provided a more elaborate description of the species, including details of its type locality: "Ulanga-Flusse bei Ifakara, Deutsch-Ostafrika". Tanzania]. Syntypes: NMW 66697 (swimbladder); NMW 66698 (2). Distribution: 564 (Pfeffer, 1896; Bailey, 1969; Paugy, 1986).

ALESTION Roberts, 2019

G Boden

Alestion Roberts, 2019 Type species: *Alestion rapax* Roberts, 2019. Type by original

designation. Gender: Masculine.

Alestion rapax Roberts, 2019

Alestion rapax Roberts, 2019:84. Type locality: Republique Democratique du Zaïre (today D. R. of Congo), Lower Congo River basin, Kwilu watershed, slow flowing muddy creek or backwater of Kwilu River in sugar cane plantations near Moerbeke, 5°34'S, 14°39'E. Holotype: NRM 62738.

Distribution: 546 (Roberts, 2019).

ALESTOPETERSIUS Hoedeman, 1951

G Boden

Alestopetersius Hoedeman, 1951:6 (in key). Type species: *Petersius hilgendorfi* Boulenger, 1899. Type by monotypy. Gender: Masculine.

Petersialestes Hoedeman, 1951:8 (in key). Type species: *Petersius xenurus* Boulenger, 1920. Type by monotypy (one species, two subspecies); nominate subspecies is type. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Alestopetersius*.

Rhabdopetersius Hoedeman, 1951:8 (in key). Type species: *Petersius leopoldianus* Boulenger, 1899. Type by monotypy (one species, two subspecies); nominate subspecies is type. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Alestopetersius*.

Duboisialestes Poll, 1967:133. Type species: *Alestopetersius xenurus tumbensis* Hoedeman, 1951. Type by original designation. Gender: Masculine.

Alestopetersius bifasciatus (Poll, 1967)

Duboisialestes bifasciatus Poll, 1967:135, fig. 31. Type locality: Bokuma, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 96575.

Distribution: 534, 537, 538 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

Alestopetersius bleheri (Géry, 1995)

Phenacogrammus bleheri Géry, 1995:52, figs. 34–35. Type locality: Zaïre, Equateur Province, small tributary of Bari River, a feeder of the Lua River, 74 km on the road Bozene to Gemena. [Democratic Republic of the Congo]. Holotype: MHNG 2572.09.

Distribution: 535 (Géry, 1995).

Alestopetersius brichardi Poll, 1967

Alestopetersius brichardi Poll, 1967:83, fig. 17. Type locality: Yangambi, lac Yandja, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 121105.

Distribution: 534, 537, 548 (Poll, 1967; Mbimbi Mayi Munene, Stiassny, 2012).

Alestopetersius caudalis (Boulenger, 1899)

Petersius caudalis Boulenger, 1899b:89, Pl. 37 (fig. 3). Type locality: Boma, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.9.26.102–103 (2); RMCA 849 (1), 850 (1), 851 (1), 852 (1), 853 (1), 854 (1). [Lectotype designated by Poll (1967), but without mentioning collection number and therefore is not identifiable. All specimens are treated as syntypes.].

Petersius brumpti Pellegrin, 1906b:368. Type locality: Rivière Abba. [Type locality is further explained in a footnote: “La rivière Abba, d’une largeur d’environ 10

- mètres est un affluent de la Dongou, une des branches de l'Ouellé". Democratic Republic of the Congo]. Holotype: MNHN 1903-0294.
- Petersius xenurus* Boulenger, 1920b:17, fig. 7. Type locality: Avakubi et Poko, Congo Belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.132–134 (3); BMNH 1919.9.10.135 (1); RMCA 7205–7209 (5); RMCA 8060 (1); RMCA 8105 (1).
- Micralestes grandi* Fowler, 1936:260, fig. 13. Type locality: Fort Sibut, Ubangi-Shari. [Central African Republic]. Holotype: ANSP 65553.
Distribution: 534, 535, 536, 537, 540, 538, 550 (Boulenger, 1899b; Poll, 1967; Ibala Zamba, 2010; Decru *et al.*, 2017).
- Alestopetersius compressus*** (Poll, Gosse, 1963)
Petersius compressus Poll, Gosse, 1963b:47, Pl. 1 (fig. 2). Type locality: Rivière Lotolo (route Yangambi–Bosulo), Congo central. [Democratic Republic of the Congo]. Holotype: RMCA 137845.
Distribution: 537, 539, 540 (Decru *et al.*, 2017; Poll, Gosse, 1963b; Poll, 1967).
- Alestopetersius conspectus*** Mbimbi Mayi Munene, Stiassny, 2012
Alestopetersius conspectus Mbimbi Mayi Munene, Stiassny, 2012:64, fig. 4. Type locality: Democratic Republic of Congo, Bandundu Province, Kwilu River at Carrefour, 05.19160°S, 18.94947° E. Holotype: AMNH 253473.
Distribution: 546 (Mbimbi Mayi Munene, Stiassny, 2012).
- Alestopetersius hilgendorfi*** (Boulenger, 1899)
Petersius hilgendorfi Boulenger, 1899b:91, Pl. 37 (fig. 5). Type locality: Kutu et Ibali, lac Léopold II, Congo. Lectotype from: “Kutu”. Democratic Republic of the Congo]. Lectotype: RMCA 829. [Designated by Poll (1967)].
Petersius modestus Boulenger, 1899b:92, Pl. 37 (fig. 6). Type locality: Kutu, lac Léopold II, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 828.
Distribution: 534, 535, 537, 538, 546, 547, 548, 550 (Boulenger, 1899b; Boulenger, 1916; Pellegrin, 1906a; Poll, 1967; Monsembula Iyaba, Stiassny, 2013).
- Alestopetersius leopoldianus*** (Boulenger, 1899)
Petersius leopoldianus Boulenger, 1899b:90, Pl. 37 (fig. 4). Type locality: Kutu et Ibali, lac Léopold II, Congo. [Lectotype from: “Kutu”. Democratic Republic of the Congo]. Lectotype: RMCA 821. [Designated by Poll (1967)].
Distribution: 546, 547 (Stiassny *et al.*, 2021a; Poll, 1967).
- Alestopetersius nigropterus*** Poll, 1967
Alestopetersius nigropterus Poll, 1967:84, fig. 18. Type locality: Ibali, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 845.
Distribution: 534, 546, 547 (Stiassny *et al.*, 2021a; Ibala Zamba *et al.*, 2019; Poll, 1967).
- Alestopetersius smykalai*** Poll, 1967
Alestopetersius smykalai Poll, 1967:84, fig. 19. Type locality: Aba, Bas Niger, Nigéria. Holotype: RMCA 153776.
Distribution: 506 (Poll, 1967; Paugy, 2003).
- Alestopetersius taeniatus*** (Géry, 1996)
Phenacogrammus taeniatus Géry, 1996: 5, figs. 1, 3, 4. Type locality: At the forestry of the SEFAX (Libongo village) on the Sangha River, ca. 160 km east of Lokomo,

Boumba & Ngoko Dept., Cameroon, approximately 2°45'N, 16°5'E. Holotype: MHNG 2583.28.

Distribution: 534 (Géry, 1996).

Alestopetersius tumbensis Hoedeman, 1951

Alestopetersius (Petersialestes) xenurus tumbensis Hoedeman, 1951:8. Type locality: Belgian Congo. [Lectotype from: “lake Tumba (Congo)”; however, Matthes (1964a) considered this type locality very doubtful and supposed that specimens probably originated from Stanley–Pool. Democratic Republic of the Congo]. Lectotype: ZMA 100166. [Designated by Matthes (1964b)].

Hemigrammopetersius duboisi Poll, 1959:81, Pl. 22 (fig. 1). Type locality: Stanley Pool. [Democratic Republic of the Congo]. Holotype: RMCA 118350.

Distribution: 538, 546, 548 (Poll, 1967).

ARNOLDICHTHYS Myers, 1926

G Boden

Arnoldichthys Myers, 1926d:174. Type species: *Petersius spilopterus* Boulenger, 1909. Type by original designation. Gender: Masculine.

Arnoldichthys spilopterus (Boulenger, 1909)

Petersius spilopterus Boulenger, 1909a:239, fig. 182. Type locality: Creek at Atijéré, 80 miles E. of Lagos (Lagos Coast) and mouths of Niger. [Nigeria]. Syntypes: BMNH 1909.7.16.40–41 (2); BMNH 1908.12.9.53 (1).

Distribution: 506, 517 (Poll, 1967; Paugy, 2003).

BATHYAETHIOPS Fowler, 1949

G Boden

Bathyaethiops Fowler, 1949b:247. Type species: *Bathyaethiops greeni* Fowler, 1949. Type by original designation. Gender: Masculine.

Microlepidalestes Hoedeman, 1951:8 (in key). Type species: *Micralestes caudomaculatus* Pellegrin, 1925. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Alestopetersius*.

Bathyaethiops atercrinis Mamonekene, Stiassny, 2012

Bathyaethiops atercrinis Mamonekene, Stiassny, 2012b:478, fig. 2. Type locality: Republic of Congo, Lékoumou Province, Lékoumou River at bridge, 3°22'49.30"S, 13°15'55.01"E. Holotype: AMNH 253501.

Distribution: 532 (Mamonekene, Stiassny, 2012a).

Bathyaethiops baka Moritz, Schliewen, 2016

Bathyaethiops baka Moritz, Schliewen, 2016:477, figs. 1–3. Type locality: Cameroon, Moloundou province: Ngoko River between Chûte de Cholet and Chûte de Nki (N 02°19'10", E 14°28'15"). Holotype: ZSM 43939.

Distribution: 534 (Moritz, Schliewen, 2016).

Bathyaethiops breuseghemi (Poll, 1945)

Micralestes breuseghemi Poll, 1945:50, fig. 6. Type locality: Affl. riv. Luembe, à l'ouest de Kakonge (Kasai), Congo belge. [Democratic Republic of the Congo]. Holotype: RMCA 59191.

Distribution: 546 (Poll, 1945; Poll, 1967).

Bathyaethiops caudomaculatus (Pellegrin, 1925)

Micralestes caudomaculatus Pellegrin, 1925:101. Type locality: Ouessou (Sangha). [Republic of the Congo]. Holotype: MNHN 1925-0128.

Distribution: 534, 535, 537, 538, 539, 540, 546, 548 (Pellegrin, 1925; Poll, 1967; Mbimbi Mayi Munene, Stiassny, 2011; Decru *et al.*, 2017.).

Bathyaethiops flammeus Moritz, Schliewen, 2016

Bathyaethiops flammeus Moritz, Schliewen, 2016:482, figs. 6–9. Type locality: Democratic Republic of Congo, Province Orientale: Bakéré river at Yambula-Bakere (N 01° 42' 41", E 23° 43' 24"). Holotype: ZSM 43945.

Distribution: 537 (Moritz, Schliewen, 2016).

Bathyaethiops greeni Fowler, 1949

Bathyaethiops greeni Fowler, 1949b:247, figs. 19–23. Type locality: Oka, Congo system. [Republic of the Congo]. Holotype: ANSP 71877.

Distribution: 534, 537 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

BRACHYPETERSIUS Hoedeman, 1956

G Boden

Brachypetersius Hoedeman, 1956d:559. Type species: *Micralestes altus* Boulenger, 1899. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Phenacogrammus*. *Brachypetersius* appeared first in Hoedeman (1951) as a subgenus of *Alestopetersius*; it included 2 species, but no type was established (Art. 13.3).

Brachypetersius altus (Boulenger, 1899)

Micralestes altus Boulenger, 1899b:88, Pl. 36 (fig. 5). Type locality: Bikoro, lac Tumba, district de l'Équateur, Congo. [Democratic Republic of the Congo]. Lectotype: RMCA 806. [Designated by Poll (1967)].

Petersius nummifer Boulenger, 1920b:18. Type locality: Poko, Congo belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.136 (1); RMCA 8057–8058 (2).

Micralestes rochefoucauldi Fowler, 1936:256, fig. 23. Type locality: Fort Sibut, Ubangi-Shari. [Central African Republic]. Holotype: ANSP 65549.

Distribution: 534, 535, 536, 537, 538, 540, 546, 647, 548 (Poll, 1967; Géry, 1996; Monsembula Iyaba, Stiassny, 2013; Mbimbi Mayi Munene, Stiassny, 2011).

Brachypetersius cadwaladeri (Fowler, 1930)

Petersius cadwaladeri Fowler, 1930:30, fig. 3. Type locality: Lulua River, Belgian Congo. [Democratic Republic of the Congo]. Holotype: ANSP 51748.

Micralestes massarti Poll, 1945:52, fig. 7. Type locality: Mukishi, affluent du Lomami, près de Kamina (Katanga), Congo Belge. [Democratic Republic of the Congo]. Syntypes: RMCA 30804–805 (2).

Distribution: 540, 541, 542, 546 (Poll, 1967).

Brachypetersius gabonensis Poll, 1967

Brachypetersius gabonensis Poll, 1967:104, fig. 22. Type locality: P.K. 50, riv. Diala, route Lambaréné–Mouila, Gabon. Holotype: RMCA 153770.

Distribution: 532, 533 (Poll, 1967; Paugy, Schaefer, 2007).

Brachypetersius huloti (Poll, 1954)

Micralestes huloti Poll, 1954:58, fig. 2. Type locality: Riv. Lomboma, Congo belge. [The type locality in the original description, “Riv. Lomboma, Congo belge”, is probably a mistake, because the locality of the holotype (RMCA 68616) as indicated in the original registers of the museum collection and in the original label is “Yangambi, riv. Losambila”. Wamuini Lunkayilakio, Vreven (2008) also used the locality on the label as the type locality of the holotype. Democratic Republic of the Congo]. Holotype: RMCA 68616.

Distribution: 534, 537, 539, 540, 546, 548 (Poll, 1967; Wamuini Lunkayilakio, Vreven (2008)).

Brachypetersius notospilus (Pellegrin, 1930)

Micralestes notospilus Pellegrin, 1930:197. Type locality: La Passa (Ht-Ogôoué). [Gabon]. Syntypes: MNHN 1929–0234 (5). [RMCA 20645 is sometimes indicated as paratype (or syntype), but this seems uncertain because the locality (= Congo français: Kouilou: Lali) and number of specimens do not correspond with the data in the original description].

Distribution: 532 (Poll, 1967; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

Brachypetersius pseudonummifer Poll, 1967

Brachypetersius pseudonummifer Poll, 1967:105, fig. 23. Type locality: Avakubi, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 2919.

Distribution: 537, 540, 541 (Kisekelwa *et al.*, 2020; Poll, 1967).

BRYCINUS Valenciennes, 1850

G Boden, D Geelhand de Merxem

Brycinus Valenciennes, in Cuvier, Valenciennes, 1850:157. Type species: *Brycinus macrolepidotus* Valenciennes, 1850. Type by monotypy. Gender: Masculine.

Brachyalestes Günther, 1864:314. Type species: *Myletes nurse* Rüppell, 1832. Type by subsequent designation by Jordan, 1919a:333. Gender: Masculine.

Alestogrammus Hoedeman, 1956d:559. Type species: *Alestes abeli* Fowler, 1936. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Phenacogrammus*. *Alestogrammus* appeared first in Hoedeman (1951) as a subgenus of *Alestopetersius*; it included 3 species, but no type was established (Art.13.3).

Brycinus abeli (Fowler, 1936)

Alestes abeli Fowler, 1936:255, fig. 8. Type locality: Fort Sibut, Ubangi-Shari. [Central African Republic]. Holotype: ANSP 65545.

Distribution: 535 (Fowler, 1936; Paugy, 1986; Gosse, 1968).

Brycinus affinis (Günther, 1894)

Alestes affinis Günther, 1894:90. Type locality: Merifano on the Tana River. [Kenya]. Syntypes: BMNH 1893.12.2.51–53 (3).

Distribution: 531, 564, 567, 568 (Bailey, 1969; Paugy, 1986; Seegers *et al.*, 2003; Getahun, 2007).

Brycinus batesii (Boulenger, 1903)

Alestes batesii Boulenger, 1903a:435. Type locality: Kribi River, southern Cameroon.

Syntypes: BMNH 1902.11.12.110–111 (2); BMNH 1903.7.28.140 (1).

Distribution: 533 (Boulenger, 1909a; Paugy, 1986).

Remarks: Paugy, Schaefer (2007) questioned the validity of the species by suggesting it could be a morphotype of *Brycinus macrolepidotus* Valenciennes, 1850.

Brycinus bimaculatus (Boulenger, 1899)

Alestes bimaculatus Boulenger, 1899b:85, Pl. 36 (fig. 3). Type locality: Kutu, lac Léopold II, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.9.26.92–93 (2), RMCA 792–795 (4).

Distribution: 532, 534, 535, 536, 537, 538, 545, 546, 547 (Pellegrin, 1928b; Poll, 1933; Paugy, 1986; Monsembula Iyaba, Stiassny, 2013; Stiassny *et al.*, 2021a).

Brycinus brevis (Boulenger, 1903)

Alestes brevis Boulenger, 1903b:594. Type locality: Lagos and Gold Coast. [Nigeria (Lagos) and Ghana (Gold Coast)]. Syntypes: BMNH 1866.3.8.11 (1); BMNH 1903.4.24.152–153 (2); BMNH 1903.4.24.154–155 (2).

Distribution: 505, 506, 515, 516, 517 (Paugy, 1986; Dankwa *et al.*, 1999; Paugy, 2003).

Brycinus carmesinus (Nichols, Griscom, 1917)

Alestes carmesinus Nichols, Griscom, 1917:681, fig. 5. Type locality: Zambi, Belgian Congo. [Democratic Republic of the Congo]. Holotype: AMNH 6330.

Distribution: 550 (Nichols, Griscom, 1917; Paugy, 1986).

Brycinus carolinae (Paugy, Lévêque, 1981)

Alestes carolinae Paugy, Lévêque, 1981:97, fig. 1. Type locality: le Niandan à Niandan (République Populaire de Guinée). [Guinea]. Holotype: MNHN 1980-1522.

Distribution: 507 (Paugy, Lévêque, 1981; Paugy, 1986; Paugy, 2003).

Brycinus comptus (Roberts, Stewart, 1976)

Alestes comptus Roberts, Stewart, 1976:270, Pl. 6 (fig. a). Type locality: Lower Zaïre River, near Inga hydroelectric dam, lat. 5°31.5'S, long. 13°37.5'E. [Democratic Republic of the Congo]. Holotype: MCZ 50506.

Distribution: 535, 537, 540, 541, 546, 548, 549 (RMCA fish collection; Roberts, Stewart, 1976; Stiassny *et al.*, 2009; Mbimbi Mayi Munene, Stiassny, 2011; Kisekelwa *et al.*, 2020).

Brycinus epuluensis Decru, Vreven, Sadio, Snoeks, 2016

Brycinus epuluensis Decru, Vreven, Sadio, Snoeks, 2016:55, figs. 4, 5. Type locality: DRC: Ituri basin: Egoro River, upstream of the bridge, near the research camp at Egoro-Afarama, affluent of Epulu River, 1°33'01"N, 28°30'41"E. [Democratic Republic of the Congo]. Holotype: RMCA 2009-029-P-0612.

Distribution: 537 (Decru *et al.*, 2016).

Brycinus ferox (Hopson, Hopson, 1982)

Alestes ferox Hopson, Hopson, 1982:299, fig. 5.19. Type locality: 1 km west of North Island at a lake depth of 38 m, Lake Turkana. [Kenya]. Holotype: BMNH 1978.5.16.1.

Distribution: 530 (Hopson, Hopson, 1982; Seegers *et al.*, 2003).

Brycinus fwaensis Géry, 1995

Brycinus fwaensis Géry, 1995:48, figs. 25–26. Type locality: Lake Fwa, draining into Lubi River, Kasai basin, ca 155 km east of Kananga, Kasai Occidental, Zaïre (ca 6°30' S and 23° E). [Democratic Republic of the Congo]. Holotype: MHNG

2572.07.

Distribution: 546 (Géry, 1995).

Brycinus grandisquamis (Boulenger, 1899)

Alestes grandisquamis Boulenger, 1899b:85, Pl. 35 (fig. 3). Type locality: Bas-Congo, Matadi, Boma et lac Léopold II. [Democratic Republic of the Congo]. Syntypes: BMNH 1887.1.13.1 (1); BMNH 1899.9.26.91 (1); RMCA 354–55 (2); RMCA 800 (1); RMCA 801 (1); RMCA 802 (1); RMCA 1195 (1).

Distribution: 532, 534, 535, 536, 537, 538, 540, 541, 544, 546, 547, 548, 550 (RMCA fish collection; Ibala Zamba *et al.*, 2019; Matthes, 1964b; Poll, 1967; Paugy, 1986; Mamonekene, Stiassny, 2012a; Van Steenberge *et al.*, 2014; Monsembula Iyaba, Stiassny, 2013; Mbimbi Mayi Munene, Stiassny, 2011; Kisekelwa *et al.*, 2020).

Brycinus imberi (Peters, 1852)

Alestes imberi Peters, 1852:276. Type locality: Mossambique. [Peters (1852) gave a short description of *Alestes imberi*, without mentioning an exact locality. However, Peters (1868a) provided more details about the locality: “Flumina Zambeze et Licuare”. Mozambique]. Lectotype: ZMB 3574. [Designated by Seegers (1996)].

Alestes fuchsii Boulenger, 1899b:83, Pl. 36 (fig. 1). Type locality: Boma (rivière des crocodiles), Stanley–Pool (région des chutes), lac Léopold II et Monsembé, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1896.3.9.22–23 (2); BMNH 1899.9.26.94 (1); BMNH 1901.12.21.25–26 (2); RMCA 796 (1); RMCA 797 (1); RMCA 798 (1); RMCA 799 (1). [It is clear that Boulenger (1899b) has seen the syntypes BMNH 1896.3.9.22–23 (2; River Congo, 50 miles south of Mangala [changed to Monsembé by Boulenger (1909)]) and BMNH 1901.12.21.25–26 (2; Monsembé) at the time of the description of *Alestes fuchsii*, because he mentioned specimens from Monsembé. However, they were not indicated as syntypes in Boulenger (1909), which was probably followed in later publications].

Alestes lemairii Boulenger, 1899b:84, Pl. 36 (fig. 2). Type locality: lac Moero, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.11.27.97 (1), RMCA 221 (1).

Alestes fuchsii var. *taeniata* Pellegrin, 1903:328. Type locality: Ouellé. [Democratic Republic of the Congo]. Holotype: MNHN 1903–0291.

Alestes bequaerti Boulenger, 1920a:148. Type locality: Ituri, à Avakubi. [Democratic Republic of the Congo]. Holotype: RMCA 14538.

Alestes curtus Boulenger, 1920b:16. Type locality: Avakubi, Congo belge. [Democratic Republic of the Congo]. Holotype: RMCA 7584.

Distribution: 507, 512, 514, 515, 516, 517, 534, 535, 536, 537, 539, 540, 541, 542, 543, 544, 545, 546, 548, 549, 550, 551, 558, 559, 560, 561, 563, 564, 565, 576 (Boulenger, 1909a; Poll, 1953; Banister, Bailey, 1979; Paugy, 1986; Seegers, 1996; De Vos *et al.*, 2001; Skelton, 2001; Paugy, 2003; Snoeks, 2004; Paugy, Schaefer, 2007; Marshall, 2011; Van Steenberge *et al.*, 2014; Mbimbi Mayi Munene, Stiassny, 2011).

Remarks: Taxonomic uncertainties remain in *Brycinus imberi*, a widespread species that is morphological variable compared to other species in the genus. According to Paugy, Schaefer (2007) it is not present in the Lower Guinea Ichthyofaunal

Province. According to Marshall (2011) the population that occurs in the coastal rivers of West Africa is likely to be a different species.

Brycinus jacksonii (Boulenger, 1912)

Alestes jacksonii Boulenger, 1912a:601. Type locality: Malawa River, Kavirondo, 4000 feet, Uganda. Holotype: BMNH 1912.10.15.6.

Distribution: 521 (Paugy, 1986; De Vos *et al.*, 2001; Seegers *et al.*, 2003; Seegers, 2008).

Brycinus kingsleyae (Günther, 1896)

Alestes kingsleyae Günther, 1896b:279, Pl. 15 (fig. B). Type locality: Ogowe River, Gaboon. Lectotype: BMNH 1896.5.5.77. [Designated by Kamdem Toham, Teugels (1997)].

Distribution: 505, 532, 533, 534, 535, 536, 537, 540, 541, 545, 546, 550 (Paugy, 1986; Kamdem Toham, Teugels, 1997; Paugy, Schaefer, 2007; Kullander, Roberts, 2012; Mamonekene, Stiassny, 2012a).

Brycinus macrolepidotus Valenciennes, 1850

Brycinus macrolepidotus Valenciennes, in Cuvier, Valenciennes, 1850:157, Pl. 639. Type locality: Sénégal. Holotype: MNHN 0000-6335.

Alestes macrolepidotus Bilharz, 1852:469, Pl. 37. Type locality: Nil [Nile]. Syntypes: NMW (2). [No type specimens of *Alestes macrolepidotus* Bilharz, 1852 were found in NMW. They may have been lost or misplaced (A. Palandacic, pers. comm.)].

Alestes rutilus Boulenger, 1916:181, fig. 116. Type locality: N. Sherbo district, Sierra Leone. Syntypes: BMNH 1915.4.13.16-17 (2).

Distribution: 505, 506, 507, 508, 509, 511, 512, 514, 515, 516, 517, 518, 520, 521, 522, 523, 530, 532, 533, 534, 535, 536, 537, 540, 544, 545, 546, 548, 549, 550 (RMCA fish collection; Greenwood, 1966; Roberts, Stewart, 1976; Banister, Bailey, 1979; Paugy, 1986; Bailey, 1994; Paugy, 2003; Paugy, Schaefer, 2007; Mbimbi Mayi Munene, Stiassny, 2011).

Brycinus minutus (Hopson, Hopson, 1982)

Alestes minutus Hopson, Hopson, 1982:302, fig. 5.20. Type locality: 5 km north west of Ilaret at e [spawning site in the open lake] a lake depth of 8 m, Lake Turkana. [Kenya]. Holotype: BMNH 1978.5.16.37.

Distribution: 530 (Hopson, Hopson, 1982; Seegers *et al.*, 2003).

Brycinus nigricauda (Thys van den Audenaerde, 1974)

Alestes nigricauda Thys van den Audenaerde, 1974:143, fig. 1. Type locality: Toyébli (6°38'N, 8°29'W) dans la rivière Nipoué ou Cess. [Ivory Coast]. Holotype: RMCA 73-10-P-1510.

Distribution: 512 (Thys van den Audenaerde, 1974; Paugy, 1986; Paugy, 2003).

Brycinus nurse (Rüppell, 1832)

Myletes nurse Rüppell, 1832:12, Pl. 2 (fig. 3). Type locality: Cairo, Nil. [Nile, Egypt]. Holotype: SMF 1051.

Myletes allenii Bennett, 1834:45. Type locality: Quorra River, into the interior of Africa. [Quorra River is an old name for the lower course of the Niger River]. No types known.

Myletes guilé Joannis, 1835:no page number, Pl. 9. Type locality: Thèbes, Nil. [Nile, Egypt]. Holotype: MNHN A-9717.

Chalceus guile Valenciennes, in Cuvier, Valenciennes, 1850:255. Type locality:

- Thèbes, Nil & Richardsthal, Sénégal. Syntypes: MNHN A-9767 (1); MNHN A-9768 (3). [Some authors (Bertin, 1948; Paugy, 1984) also include MNHN A-9717 as syntype, which is also the holotype of *Myletes guile* Joannis, 1835. The length of this specimen, MNHN A-9717, is indicated as “6 pouces”, while Valenciennes (1850) mentioned only one specimen with a length of “5 pouces et demi” from Thèbes. Most probably MNHN A-9767 should be considered as the only syntype from Thèbes for *Chalceus guile* Valenciennes, 1850].
- Brachyalestes rüppellii* Günther, 1864:315. Type locality: Chartoum, Upper Nile. [Sudan]. Syntypes: BMNH 1862.6.17.15–16 (2); BMNH 1862.6.17.154 (1).
- Alestes erythropterus* Pellegrin, 1907b:139. Type locality: Soubré (Bassin de la Moyenne Sassandra), Côte d’Ivoire. Syntypes: MNHN 1907-0320 (1); MNHN 1907-0321 (1).
- Alestes nurse* var. *nana* Pellegrin, 1935a:133. Type locality: Nanoropus (lac Rodolphe), altitude 565 m. [“lac Rodolphe” is an old name for Lake Turkana. Kenya]. Syntypes: MNHN 1933-0084 (7); MNHN 1933-0085 (6); MNHN 1933-0086 (7); NMBA 4888 (1).
- Alestes dageti* Blache, Miton, 1960:100. Type locality: Lac Tchad, zone E.-S.-E. en bordure des Îlots-bancs (loc. Bangarom). [Chad]. Syntypes: MNHN 1959-0224 (19); CEPFL 1082-1089 (8); CEPFL 1091-1094 (4). [Original description gives both “types” (MNHN 1959-0224) and “paratypes” (CEPFL 1082-1089 and CEPFL 1091-1094), all to be treated as syntypes (See ICZN, 1999: Art. 72.1 and 73.2)].
- Alestes bouboni* Roman, 1973:51, fig. (p.55). Type locality: dans le Niger à Boubon, à 20 km au Nord de Niamey, République du Niger. Holotype: MH-V 436. [MH-V stands for “Musée de Haute-Volta”, now Musée National de Burkina Faso].
- Distribution: 505, 506, 507, 508, 509, 510, 511, 512, 514, 515, 516, 517, 518, 520, 522, 523, 524, 530 (Paugy, 1986; Bailey, 1994; Paugy, 2003; Seegers *et al.*, 2003; Paugy, Schaefer, 2007).
- Brycinus opisthotaenia*** (Boulenger, 1903)
- Alestes opisthotaenia* Boulenger, 1903c:22, Pl. 1 (fig. 2). Type locality: Kribi River and Mvile River, southern Cameroon. [In the original description, four specimens referred to as originating from the Kribi River and Mvile River were examined. However, Boulenger (1909a) specifically listed four specimens from “Kribi River” as the types. Moreover, in the BMNH collection only the four Kribi specimens are labeled as type material. Therefore, Kamdem Toham, Teugels (1997) considered that the Mvile specimen has no type status, and the type locality should be “Kribi River, southern Cameroon”]. Lectotype: BMNH 1902.11.12.109. [Designated by Kamdem Toham, Teugels (1997)].
- Distribution: 505, 532, 533 (Paugy, 1986; Kamdem Toham, Teugels, 1997; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).
- Brycinus peringueyi*** (Boulenger, 1923)
- Alestes péringueyi* Boulenger, 1923:437. Type locality: Mansa River, N. Rhodesia. [Zambia]. Holotype: SAIAB 135259.
- Distribution: 544 (Boulenger, 1923; Paugy, 1986; Van Steenberge *et al.*, 2014).
- Brycinus poptae*** (Pellegrin, 1906)

Alestes poptae Pellegrin, 1906b:367. Type locality: Congo. Holotype: MNHN 1890-0019.

Distribution: 534, 535, 536, 537, 540, 546 (David, Poll, 1937; Paugy, 1986; Ibala Zamba, 2010; Mbimbi Mayi Munene, Stiassny, 2011; Monsembula Iyaba, Stiassny, 2013; Decru *et al.*, 2017).

Brycinus rhodopleura (Boulenger, 1906)

Alestes rhodopleura Boulenger, 1906a:547, Pl. 30 (fig. 3). Type locality: Niamkolo, Mtondwe Bay, and Lofu, Lake Tanganyika. [Zambia]. Syntypes: BMNH 1898.9.9.79 (1) Tanganyika; BMNH 1906.9.8.37 (1) Niamkolo; BMNH 1906.9.8.38 (1) Mtondwe Bay; BMNH 1906.9.8.39 (1) Lofu. [Boulenger (1909a) mentioned two specimens from Lofu as types. There is however only one specimen known from that locality in the BMNH fish collection (BMNH 1906.9.8.39). It is known that Boulenger divided type material between BMNH and RMCA, at least for some species, but no specimens from “Lofu” (or “Luvu”) of *A. rhodopleura* could be found in the RMCA fish collection].

Distribution: 542 (Poll, 1953; Paugy, 1986).

Brycinus schoutedeni (Boulenger, 1912)

Alestes schoutedeni Boulenger, 1912b:7, Pl. 18 (fig. 1). Type locality: la Lebuzi à Kuka Muno et Boma Vonde, Bas-Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1912.4.1.241–242 (2); BMNH 1912.4.1.243 (1); RMCA 1599 (1); RMCA 1600 (1).

Distribution: 532, 533 (David, Poll, 1937; Paugy, 1986; Mamonekene, Stiassny, 2012a).

Remarks: Paugy, Schaefer (2007) questioned the validity of the species by suggesting it could be a morphotype of *Brycinus macrolepidotus* Valenciennes, 1850. This requires confirmation, most likely with genetic studies.

Brycinus taeniurus (Günther, 1867)

Alestes taeniurus Günther, 1867:113 [5]. Type locality: Gaboon. Holotype: BMNH 1867.5.3.26.

Distribution: 532, 533 (Paugy, 1986; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

Species inquirenda (Brycinus)

Petersius bahr-sarae Fowler, 1949b:245, figs. 15–18. Type locality: Bahr Sara, Shari River basin. [Chad]. Holotype: ANSP 71876. [The holotype is missing from its jar since 1970 (Böhlke, 1984)].

Remarks: Poll (1967) treated this species as a juvenile *Alestes* species, but he still had doubts about its generic placement. Later, Géry (1977) placed it as an unidentified *Brycinus* species.

BRYCONAETHIOPS Günther, 1873

G Boden

Bryconaethiops Günther, 1873:143. Type species: *Bryconaethiops microstoma* Günther, 1873. Type by monotypy. Gender: Masculine.

Bryconaethiops boulengeri Pellegrin, 1900

Bryconaethiops boulengeri Pellegrin, 1900:101. Type locality: Adoumas (Ogooué), Congo français. [The holotype is the only specimen known to date from the Ogowe River basin; therefore, the origin of the holotype is questioned (Ibala Zamba *et al.*, 2007). Gabon]. Holotype: MNHN 1886-0356.

Distribution: 532, 534, 535, 537, 539, 540, 541, 542, 544, 545, 546 (Pellegrin, 1900; Ibala Zamba *et al.*, 2007; Poll, 1953; Ricardo-Bertram, 1943; Matthes, 1964b; Banister, Bailey, 1979; Pellegrin, 1935b; Gosse, 1963; Van Steenberge *et al.*, 2014; Mbimbi Mayi Munene, Stiassny, 2011).

Bryconaethiops macrops Boulenger, 1920

Bryconaethiops macrops Boulenger, 1920b:15, fig. 6. Type locality: Bafwasende, Avakubi, Bosabangi et Fundi, Congo belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.100 (1); BMNH 1919.9.10.101 (1); RMCA 7223 (1); RMCA 7225 (1); RMCA 7226 (1); RMCA 7227 (1); RMCA 7228 (1); RMCA 7229 (1); RMCA 7340 (1). [The original description of this species is based on 4 specimens from Bafwasende, 4 specimens from Avakubi, 2 specimens from Bosabangi and 8 specimens from Fundi. This is not in correspondence with the type-listings in the museum records of BMNH and RMCA. However, RMCA 7673–7678 (5 + 1 in exchange with IFAN, Dakar), with locality “Fundi”, is from the same collection as the syntypes but those specimens are not indicated as syntypes in the museum records].

Distribution: 532, 533, 535, 536, 537, 540, 541, 546, 548, 550 (Boulenger, 1920b; Ibala Zamba *et al.*, 2007; Paugy, Schaefer, 2007; Kisekelwa *et al.*, 2020).

Bryconaethiops microstoma Günther, 1873

Bryconaethiops microstoma Günther, 1873:143. Type locality: River Congo, Angola. Syntypes: BMNH 1873.7.28.25–26 (2).

Brachyalestes mocquardianus Thominot, 1886:167. Type locality: San-Benito. [Equatorial Guinea]. Holotype: MNHN 1885-0428.

Bryconaethiops microstoma var. *habereri* Steindachner, 1913:13, Pl. 2 (fig. 1). Type locality: Dscha, eines sekundären Nebenflusses des Kongo, im Bezirke Molundu, Kamerun. [Cameroon]. Holotype: NMW 62749.

Distribution: 532, 533, 534, 535, 537, 539, 540, 543, 546, 548, 550 (Ibala Zamba *et al.*, 2019; Ibala Zamba *et al.*, 2007; Paugy, Schaefer, 2007; Banister, Bailey, 1979; Poll, 1967; Gosse, 1968; De Vos *et al.*, 2001; Mbimbi Mayi Munene, Stiassny, 2011; Mamonekene, Stiassny, 2012a).

Bryconaethiops quinquessuamae Teugels, Thys van den Audenaerde, 1990

Bryconaethiops quinquessuamae Teugels, Thys van den Audenaerde, 1990:208, fig. 2. Type locality: Cross river near Mamfe town (5°46'N, 9°17'E), Cameroon. Holotype: RMCA 73-40-P-28.

Distribution: 506, 518, 533 (Teugels, Thys van den Audenaerde, 1990; Paugy, Schaefer, 2007; Paugy, 2003).

Bryconaethiops yseuxi Boulenger, 1899

Bryconaethiops yseuxi Boulenger, 1899b:82, Pl. 37 (fig. 2). Type locality: Haut-Congo. [The type locality “Haut-Congo” is an old term for all localities situated on the Congo River basin above Matadi (05°49'S, 13°27'E)]. Holotype: BMNH 1899.6.27.38.

Distribution: 548, 549 (Ibala Zamba *et al.*, 2007; Roberts, Stewart, 1976).

BRYCONALESTES Hoedeman, 1951

G Boden, E Derijst

Alestobrycon Hoedeman, 1951:3 (in key). Type species: *Alestes intermedius* Boulenger, 1903. Type by original designation. Gender: Masculine.

Bryconalestes Hoedeman, 1951:4 (in key). Type species: *Brachyalestes longipinnis* Günther, 1864. Type by original designation. Gender: Masculine.

Remarks: This genus corresponds to the ‘*Brycinus longipinnis*’ group as defined by Paugy (1986), which was placed in the genus *Bryconalestes* by Zanata, Vari (2005). They explicitly mention the species *B. longipinnis*, *B. derhami* and *B. intermedius* as belonging to this group, of which the last one is also the type species of the genus *Alestobrycon* (not mentioned by Zanata, Vari (2005)). Both genera were described by Hoedeman (1951) in a key in the same publication. *Alestobrycon* is indicated as a new genus with type species *Alestes intermedius* Boulenger, 1903 on page 3. *Bryconalestes* is indicated as a new genus with type species *Brachyalestes longipinnis* Günther, 1864 on page 4. Zanata, Vari (2005) have placed both species in the same group for which they utilise the genus *Bryconalestes*. The revalidation of *Bryconalestes* by Zanata, Vari (2005) cannot be regarded as an act of the first reviser, because they did not cite *Alestobrycon*, or mentioned any act of selection (ICZN, 1999: Art. 24.2.1. Statement of the Principle of the First Reviser. When the precedence between names or nomenclatural acts cannot be objectively determined, the precedence is fixed by the action of the first author citing in a published work those names or acts and selecting from them; this author is termed the “First Reviser”). Here we act as the first reviser and treat *Bryconalestes* as a valid genus.

Bryconalestes bartoni (Nichols, La Monte, 1953)

Alestes bartoni Nichols, La Monte, 1953:1, fig. 1. Type locality: Mouila, Ogowe Valley, Gaboon, Africa. Holotype: AMNH 19654.

Distribution: 532 (Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

Bryconalestes derhami (Géry, Mahnert, 1977)

Brycinus derhami Géry, Mahnert, 1977:618, Pl. 1 (figs. 1–3). Type locality: la Néro vers le Mont Klon, approximativement à 5° 11'N, 7° 12'W., sud-ouest de la Côte d'Ivoire. [Ivory Coast]. Holotype: MHNG 1183.06.

Distribution: 512 (Géry, Mahnert, 1977; Paugy, 1986; Paugy, 2003).

Bryconalestes humilis (Boulenger, 1905)

Alestes humilis Boulenger, 1905:458. Type locality: Quanza River, Angola. Holotype: BMNH 1905.5.29.66.

Distribution: 546, 551, 555, 569 (Skelton, 2019; Poll, 1967; Paugy, 1986).

Bryconalestes intermedius (Boulenger, 1903)

Alestes intermedius Boulenger, 1903c:22, Pl. 1 (fig. 1). Type locality: Kribi River, southern Cameroon. Syntypes: BMNH 1902.11.12.106–108 (3).

Distribution: 506, 518, 532, 533 (Paugy, 1986; Paugy, 2003; Paugy, Schaefer, 2007).

Bryconalestes lateralis (Boulenger, 1900)

Alestes lateralis Boulenger, 1900b:130, Pl. 48 (fig. 2). Type locality: lac Dilolo

(Katanga), Congo. [Bell-Cross (1965) reported that the type locality of *Alestes lateralis*, “Lake Dilolo (Katanga)”, is actually not in Katanga but situated on a tributary of the Upper Zambezi River in Angola at approximately 22°01'E., 11°32' S]. Syntypes: BMNH 1900.12.13.25 (1); RMCA 384 (1); RMCA 385 (1); RMCA 386 (1); RMCA 387 (1); RMCA 388 (1).

Alestes natalensis Boulenger, 1904a:155. Type locality: near Durban, Natal. [South Africa]. Syntypes: (2) BMNH 1904.6.28.33 (1). [In the original description two specimens are mentioned from the type locality, but only one specimen can be found in the BMNH collection (BMNH 1904.6.28.33). It is known that Boulenger divided type material between BMNH and RMCA at least for some species. However, no specimens of *Alestes natalensis* from Durban could be found in the RMCA collection].

Alestes langi Fowler, 1935:258, fig. 4. Type locality: Thamalakane River at Maun. [Botswana]. Holotype: SAIAB [formerly RUSI] 30015.

Alestes thamalakanensis Fowler, 1935:257, fig. 3. Type locality: Thamalakane River at Maun. [Botswana]. Holotype: SAIAB [formerly RUSI] 30016.

Distribution: 544, 545, 546, 552, 553, 555, 556, 557, 558, 560, 561, 562, 563, 569, 570, 576 (Poll, 1933; Crass, 1960; Bell-Cross, 1965; van der Waal, Skelton, 1984; Paugy, 1986; Hay *et al.*, 1999; Skelton, 2001; Marshall, 2011).

***Bryconalestes leuciscus* (Günther, 1867)**

Alestes leuciscus Günther, 1867:114 [5]. Type locality: West Africa (purchased of a dealer). [Boulenger (1909a) gave “Niger” as the type locality which was followed by Paugy (1986)]. Syntypes: BMNH 1865.1.20.16–17 (2).

Alestes (Brachyalestes) senegalensis Steindachner, 1870:545 [13], Pl. 2 (fig. 2). Type locality: Senegal. Syntypes: (many) BMNH 1891.5.26.17–18 (2); NMW 13375–432 (58), 14222–26 (5), 66741 (2), 66774 to 66788 (4, 4, 2, 7, 5, 2, 4, 5, 4, 3, 3, 7, 4, 4, 5), 66790 to 66816 (4, 4, 4, 2, 4, 4, 4, 4, 4, 2, 4, 4, 2, 5, 4, 3, 3, 4, 4, 4, 4, 4, 5, 2, 4, 120), 66824 (5), 67146 to 67147 (3, 10), 69610 (182), 75895 (5); ZMH 1799 (1), 1800 (1). The name *Alestes nurse senegalensis* proposed by Holly 1928 was not described as a new species, but is a new combination of an existing name [*Alestes (Brachyalestes) senegalensis* Steindachner, 1870]. After examination of the type specimens of *Alestes (Brachyalestes) senegalensis*, Holly (1928b) placed it as a subspecies of *Alestes nurse* Rüppell, 1832, an action which was erroneously treated as the description of a new subspecies by Paugy (1984).

Alestes nurse albolineatus Holly, 1928a:312, fig. 1. Type locality: Senegal. Syntypes: NMW 13113–13133 (21); NMW 13134–13135 (2). [NMW 13113–13133 (21) is indicated as “Cotype” on the original label and NMW 13134–13135 (2) is indicated as “Type” on the original label. The original publication mentioned 23 specimens, so all are syntypes. Also see Bogutskaya *et al.* (2022)].

Alestes nigrilineatus Svensson, 1933:53, Pl. 2 (fig. 1). Type locality: swamps during rainy season, Gambia River, British West Africa. [Gambia]. Syntypes: (4) NRM 10222 (3). [According to the original description 4 specimens were collected, but only 3 are registered at the NRM. At least one specimen is stated to be collected from another locality (*i.e.*, Faraba creek) on 1 August 1931].

Distribution: 505, 506, 507, 508, 509, 516 (RMCA fish collection; Paugy, 1986; Paugy, 2003).

Bryconalestes longipinnis (Günther, 1864)

Brachyalestes longipinnis Günther, 1864:315. Type locality: West Africa: Sierra Leone; River Congo. Syntypes: BMNH 1862.11.15.7 (1); BMNH 1864.3.16.2–7 (6). [The original description of this species was based on 8 specimens; until now we were not able to trace the whereabouts of the young specimen purchased of Mr. Damon from “West Africa”].

Alestes chaperi Sauvage, 1882:320, Pl. 5 (fig. 3). Type locality: Efirou, rivière Cania, territoire d’Assinie, Côte-d’Or. [Ghana]. Syntypes: BMNH 1882.5.12.2–4 (3); BMNH 1883.7.4.88–90 (3); MNHN A-4418 (4); MNHN A-4419 (6); MNHN A-4420 (3); MNHN A-4523 (3).

Brycinus longipinnis bagbeensis Géry, Mahnert, 1977:627, Pl. 3 (figs. 1–2). Type locality: Bagbe River, Sierra Leone. Holotype: BMNH 1932.5.18.6 (96 mm SL). Distribution: 506, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 532, 533, 550 (Paugy, Schaefer, 2007; Paugy, 2003; Paugy, 1986; Mamonekene, Stiassny, 2012a).

Bryconalestes luteus (Roman, 1966)

Alestes luteus Roman, 1966:63, Pl. 2 (figs. 3–4). Type locality: dans le Kou, affluent de la Volta Noire, à 30 km au Nord de Bobo-Dioulasso. [Burkina Faso]. Holotype: RMCA 141127.

Distribution: 516 (Roman, 1966; Paugy, 1986; Paugy, 2003).

Bryconalestes sadleri (Boulenger, 1906)

Alestes sadleri Boulenger, 1906b:435. Type locality: Entebbe, Lake Victoria. [Uganda]. Lectotype: BMNH 1906.5.30.105. [Designated by Seegers (1996)].

Micralestes lernerii Nichols, LaMonte, 1938:1, figs. 1–2. Type locality: Lake Victoria, Africa. Holotype: AMNH 13736.

Distribution: 521, 543, 565 (Paugy, 1986; Seegers, 1996; De Vos *et al.*, 2001; De Vos *et al.*, 2001; Seegers *et al.*, 2003).

Bryconalestes tessmanni (Pappenheim, 1911)

Alestes tessmanni Pappenheim, 1911:510, fig. 1. Type locality: beim Bimfille. [Equatorial Guinea]. Holotype: ZMB 18376. [Pappenheim (1911) mentioned four specimens in the original description, of which the largest (12.8 cm length) [ZMB 18376] is indicated as “Type”].

Distribution: 533 (Paugy, 1986; Zarske, 2011b).

Bryconalestes tholloni (Pellegrin, 1901)

Alestes tholloni Pellegrin, 1901:329. Type locality: Congo français. [Republic of the Congo]. Syntypes: MNHN 1890-0021 (1); MNHN 1890-0022 (1).

Distribution: 532 (Paugy, 1986; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

CLUPEOCHARAX Pellegrin, 1926**G Boden**

Clupeocharax Pellegrin, 1926:159. Type species: *Clupeocharax schoutedeni* Pellegrin, 1926. Type by monotypy. Gender: Masculine.

Clupeopetersius Pellegrin, 1928a:82. Type species: *Clupeocharax schoutedeni* Pellegrin, 1926. Type by being a replacement name. Gender: Masculine. Additional comments: Unneeded replacement for *Clupeocharax* Pellegrin, 1926, not

preoccupied by *Clupeocharax* Pearson, 1924 in fishes.

Clupeocharax schoutedeni Pellegrin, 1926

Clupeocharax schoutedeni Pellegrin, 1926:159. Type locality: Tondou, Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 19699.

Distribution: 537, 538, 539, 546 (Pellegrin, 1926; Poll, 1967; Monsembula Iyaba, Stiassny, 2013; Stiassny *et al.*, 2021a).

HEMIGRAMMOPETERSIUS Pellegrin, 1926

G Boden

Hemigrammopetersius Pellegrin, 1926:158. Type species: *Petersius pulcher* Boulenger, 1909. Type by subsequent designation. Gender: Masculine. Additional comments: Type designated by Burton in Zoological Record for 1926.

Hemigrammopetersius barnardi (Herre, 1936)

Petersius barnardi Herre, 1936:100. Type locality: Roadside ditches about 12 kilometers from Beira, Portuguese East Africa. [Mozambique]. Holotype: SU 31521 (mixed among paratypes). [The holotype was mixed in with the paratypes and now it cannot be determined with certainty; however, 3 specimens have been segregated in a vial inside the bottle; these are the specimens that most closely resemble the holotype and therefore one of them probably is the holotype (Böhlke, 1953b)].

Distribution: 559, 561, 562, 564, 576 (Herre, 1936; Skelton, 2001).

Hemigrammopetersius pulcher (Boulenger, 1909)

Petersius pulcher Boulenger, 1909a:237, fig. 180. Type locality: Ja River (Congo System) at Biteye, South Cameroon. Syntypes: BMNH 1909.4.29.48–49 (2).

Distribution: 533, 534 (Poll, 1967; Amiet, Nzeyimana, 1990).

HYDROCYNUS Cuvier, 1816

G Boden

Hydrocynus Cuvier, 1816:167. Type species: *Hydrocynus forskahlii* Cuvier, 1819. Type by subsequent designation by Agassiz in Spix, Agassiz (1829). Gender: Masculine. Additional comments: Some authors place *Hydrocynus lucius* Cuvier, 1816 as type species of *Hydrocynus*. This is based on a subsequent designation by Eigenmann (1910) and the thought that *Hydrocynus forskahlii* Cuvier, 1819 was originally not included in the genus description. *Hydrocynus forskahlii* was described for the misidentification of *Cyprinus dentex* Linnaeus, 1758 (= *Salmo dentex* Hasselquist, 1762, unavailable name) by Forsskahl (1775), and known by the vernacular name ‘roschal’. This ‘roschal’ was included in the species list of *Hydrocynus* by Cuvier (1816). Moreover, *Hydrocynus lucius*, now known as *Boulengerella lucius*, is a South American species. Here we follow the decision to use *Hydrocynus forskahlii* as type species as first designated by Agassiz in Spix, Agassiz (1829), a species with distribution in Africa.

Hydrocyon Cuvier, 1819:353. Gender: Masculine. Additional comments: Not intended as a new genus description, refers to the description of *Hydrocynus* Cuvier, 1816, and can be regarded as an incorrect subsequent spelling.

Hydrocionichthys Travassos, 1952:142. Type species: *Hydrocynus forskahlii* Cuvier, 1819. Type by original designation. Gender: Masculine.

Hydrocynus brevis Günther, 1864

Hydrocyon brevis Günther, 1864:351. Type locality: Chartoum, Upper Nile. [Sudan].
Lectotype: BMNH 1862.6.17.94. [Designated by Brewster (1986)].

Hydrocyon somonorum Daget, 1954:116, fig. 34. Type locality: Kolenzé, Diarafabé et Dia bozo, Niger supérieur. [Mali]. Syntypes: MNHN (8) (lost). [The types of *Hydrocyon somonorum* are no longer extant (Brewster, 1986)].

Distribution: 505, 507, 508, 509, 516, 520, 522, 523, 524 (Paugy, Guégan, 1989; Paugy, 2003).

Hydrocynus forskahlii Cuvier, 1819

Hydrocyon forskahlii Cuvier, 1819:354, Pl. 28 (fig. 1). Type locality: Nil, Egypte. [Nile, Egypt]. Holotype: MNHN 0000-1691.

Salmo roschal Walbaum, 1792:81. Type locality: Nilus [Nile]. No types known. Reversal of priority in favor of *Hydrocyon forskahlii* Cuvier, 1819 discussed by Fricke, 2008:18.

Distribution: 505, 506, 507, 508, 509, 510, 511, 512, 514, 515, 516, 517, 518, 519, 520, 522, 523, 524, 525, 530, 533, 534, 535, 536, 548, 549, 550 (Ibala Zamba *et al.*, 2019; Paugy, Guégan, 1989; Paugy, 2003; Paugy, Schaefer, 2007; Seegers *et al.*, 2003).

Hydrocynus goliath Boulenger, 1898

Hydrocyon goliath Boulenger, 1898b:23, Pl. 11. Type locality: Bief de Manyanga, Léopoldville et Umangi (Haut-Congo), Congo. [Lectotype from: “Manyanga, Belgian Congo”. Democratic Republic of the Congo]. Lectotype: BMNH 1898.11.17.4. [Designated by Brewster (1986)].

Hydrocyon vittatus Boulenger, 1898b:24, Pl. 10 (fig. 2). Type locality: Umangi, Upoto et Manyanga. [Democratic Republic of the Congo]. Syntypes: BMNH 1898.11.17.5 (1); RMCA 149 (1); RMCA 165 (1). Preoccupied by *Hydrocinus vittatus* Castelnau, 1861, replaced by *Hydrocyon vittiger* Boulenger, 1907.

Hydrocyon vittiger Boulenger, 1907c:106. Type locality: Umangi, Upoto et Manyanga. [Democratic Republic of the Congo]. Syntypes: BMNH 1898.11.17.5 (1); RMCA 149 (1); RMCA 165 (1). Replacement for *Hydrocyon vittatus* Boulenger, 1898.

Distribution: 535, 537, 538, 539, 540, 542, 546, 547, 548, 549, 550 (Brewster, 1986; Banister, Bailey, 1979; Matthes, 1964b; Coulter, 1966).

Hydrocynus tanzaniae Brewster, 1986

Hydrocynus tanzaniae Brewster, 1986:199, fig. 30. Type locality: Lower Ruvu River, Tanzania. Holotype: BMNH 1976.10.21.130.

Distribution: 564 (Brewster, 1986).

Hydrocynus vittatus Castelnau, 1861

Hydrocinus vittatus Castelnau, 1861:65. Type locality: lac N'gami, Afrique australe. [Type locality of neotype is “Kavango: Okavango River, Rundu 17°54'S, 19°46'E”. Namibia]. Neotype: SAIAB [formerly RUSI] 22228. [The original type specimens are lost (Boulenger, 1907c); neotype designated by Paugy, Guégan (1989)].

Hydrocyon lineatus Schlegel, in Bleeker, 1863:125. Type locality: Guinea (Ashantee). [The locality “Guinea” as used in the original description refers probably to “Gulf of Guinea”; “Ashantee” was the name of an old kingdom located in present Ghana]. Holotype: RMNH 3249.

Distribution: 505, 506, 507, 508, 509, 515, 516, 517, 518, 520, 522, 523, 525, 530, 535, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 548, 549, 550, 555, 556, 558, 559, 560, 561, 562, 563, 564, 565, 569, 570, 576 (Paugy, Guégan, 1989; Skelton, 2001; Paugy, 2003; Paugy, Schaefer, 2007; Seegers *et al.*, 2003; Seegers, 1996; De Vos *et al.*, 2001; Van Steenberge *et al.*, 2014; Mbimbi Mayi Munene, Stiassny, 2011; Banister, Bailey, 1979; Marshall, 2011; Kisekelwa *et al.*, 2020).

LADIGESIA Géry, 1968

G Boden

Ladigesia Géry, 1968:78. Type species: *Ladigesia roloffii* Géry, 1968. Type by original designation. Gender: Feminine.

***Ladigesia roloffii* Géry, 1968**

Ladigesia roloffii Géry, 1968:83, fig. 5. Type locality: Kasewe Forest, Sierra Leone (West Africa). Holotype: ZMH 4270.

Distribution: 511 (Paugy, 2003).

LEPIDARCHUS Roberts, 1966

G Boden

Lepidarchus Roberts, 1966:209. Type species: *Lepidarchus adonis* Roberts, 1966. Type by original designation. Gender: Masculine.

***Lepidarchus adonis* Roberts, 1966**

Lepidarchus adonis Roberts, 1966:210, figs. 10–11. Type locality: a small stream a mile and a half east of Mpataba on the road to Half-Assini, Ghana, at approximately 5°5'N, 2°35'W. Holotype: SU 63546.

Lepidarchus adonis signifer Isbrücker, 1970:135, figs. 3–4. Type locality: Africa, Liberia: about 50 miles southeast of Monrovia, southeast of Robertsfeld airfield, in a small creek in a swampy area, at approximately 06°12' N, 10°20'W. Holotype: ZMA 110208.

Distribution: 511, 512, 514, 515 (Roberts, 1966; Paugy, 2003; Isbrücker, 1970).

MICRALESTES Boulenger, 1899

G Boden

Micralestes Boulenger, 1899b:86. Type species: *Micralestes humilis* Boulenger, 1899. Type by subsequent designation by Jordan (1920). Gender: Masculine.

Virilia Roberts, 1967:253. Type species: *Phenacogrammus pabrensis* Roman, 1966. Type by original designation. Gender: Feminine. Additional comments: Placed in synonymy of *Micralestes* by Paugy (1990), and confirmed in Paugy (2003).

Micralestes acutidens (Peters, 1852)

Alestes acutidens Peters, 1852:276. Type locality: Mossambique. [Mozambique].
Syntypes: BMNH 1861.3.10.3–4 (2, now 1); ZMB 3576 (3); ZMB 3577 (2);
ZMB 23579 (7); ZMB 23582 (18); ZMB 31539 (1).

Petersius neglectus Boulenger, 1920b:18. Type locality: Poko, Congo belge.
[Democratic Republic of the Congo]. Holotype: RMCA 8064.

Micralestes luluae Fowler, 1930:29, fig. 2. Type locality: Lulua River, Belgian Congo.
[Democratic Republic of the Congo]. Holotype: ANSP 51715.

Distribution: 505, 506, 507, 508, 509, 518, 520, 522, 523, 530, 533, 534, 535, 536,
537, 538, 539, 540, 545, 546, 548, 549, 552, 553, 555, 556, 557, 558, 560, 561,
563, 564, 569, 576 (Poll, 1967; Stiassny, Mamonekene, 2007; Skelton, 2001;
Roberts, Stewart, 1976; Hay *et al.*, 1999; Banister, Bailey, 1979; Marshall, 2011;
Paugy, Schaefer, 2007).

Micralestes ambiguus Géry, 1995

Micralestes ambiguus Géry, 1995:50, fig. 29. Type locality: Zaïre, Equateur Province,
basin of the Oubangui, 1 km west of Bari River, a tributary of the Lua River,
63 km W of Gemena. [Democratic Republic of the Congo]. Holotype: MHNG
2572.08.

Distribution: 535 (Géry, 1995).

Micralestes argyrotaenia Trewavas, 1936

Micralestes argyrotaenia Trewavas, 1936:65, Pl. 1 (fig. 3). Type locality: an upper
reach of the Cunene River, Angola. Syntypes: BMNH 1935.3.20.65–70 (6).

Distribution: 555 (Poll, 1967).

Micralestes comoensis Poll, Roman, 1967

Micralestes comoensis Poll, Roman, 1967:179, figs. 1–2. Type locality: dans la Comoé,
au bas des cascades près de la route de Bobo-Dioulasso à Abidjan, à 68 km au sud
de Bobo-Dioulasso. [Burkina Faso]. Holotype: RMCA 141924.

Distribution: 514 (Poll, Roman, 1967; Poll, 1967; Paugy, 2003).

Micralestes congicus Poll, 1967

Micralestes congicus Poll, 1967:44, fig. 5. Type locality: Bokuma, Congo. [Democratic
Republic of the Congo]. Holotype: RMCA 96582.

Distribution: 537 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

Micralestes eburneensis Daget, 1965

Micralestes eburneensis Daget, 1965:590. Type locality: le Cavally près Toulépleu,
Côte d'Ivoire. Holotype: MNHN 1964-0270.

Distribution: 512, 514 (Poll, 1967; Paugy, 2003).

Micralestes elongatus Daget, 1957

Micralestes acutidens elongatus Daget, 1957:126, fig. 11 (bottom). Type locality:
Bougouri-Ba, pont de la route de Léo, Haute-Volta. [Burkina Faso]. Holotype:
MNHN 1956-0106.

Micralestes brevianalis Blache, Miton, 1960:101. Type locality: Lac Tchad (zone E. S.-
E. en bordure des Îlots-bancs: loc. Bangarom), Mayo-Kébbi (zone supérieure des
Chutes Gauthiot), Taf-Taf (Bas Chari) et Mayo-Kebbi (loc. Mbourao). [Chad].
Syntypes: MNHN 1959-0231 (59, now 16); MNHN 1959-0236 (5, now 1);
MNHN 1987-2108 (2); CEPFL 9 (1); CEPFL 839 (1). [Original description
gives both “types” (MNHN 1959-0231) and “paratypes” (MNHN 1959-0236,

CEPFL 9 and CEPFL 839), all to be treated as syntypes (See ICZN,1999: Art. 72.1 and 73.2). 2 specimens of MNHN 1959-0236 were donated to J. Géry in 1972].

Distribution: 505, 506, 507, 508, 509, 510, 514, 516, 517, 518, 520, 530 (Poll, 1967; Paugy, 2003; Paugy, Schaefer, 2007; Seegers *et al.*, 2003).

Micralestes fodori Matthes, 1965

Micralestes fodori Matthes, 1965:178, fig. 1. Type locality: lac Fwa, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 140901.

Distribution: 546 (Matthes, 1965; Poll, 1967).

Micralestes holargyreus (Günther, 1873)

Alestes holargyreus Günther, 1873:144. Type locality: River Congo, Angola. Syntypes: BMNH 1873.7.28.19-23 (5).

Alestes brevipinnis Perugia, 1892:975 [9]. Type locality: Vivi, fiume Congo. [Democratic Republic of the Congo]. Syntypes: MSNG 9248 (8), NMW 1603 (1).

Distribution: 550 (Poll, 1967; Stiassny, Mamonekene, 2007).

Micralestes humilis Boulenger, 1899

Micralestes humilis Boulenger, 1899b:87, Pl. 36 (fig. 4). Type locality: Kutu, lac Léopold II, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 805.

Petersius woosnami Boulenger, 1907b:487. Type locality: Aruwimi, in the Congo Forest. [Democratic Republic of the Congo]. Syntypes: BMNH 1907.4.20.35-36 (2).

Micralestes sardina Poll, 1938:411, fig. 12. Type locality: Kandulu, près de Sakania, affl. de la riv. Luembe. [Democratic Republic of the Congo]. Lectotype: RMCA 50040. [Designated by Poll (1967)]. Synonymy proposed by Decru *et al.* (2017:238).

Distribution: 505, 506, 518, 520, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 544, 545, 546, 547, 548, 549, 550 (Poll, 1967; Paugy, 2003; Paugy, Schaefer, 2007; Roberts, Stewart, 1976; Monsembula Iyaba, Stiassny, 2013; Mbimbi Mayi Munene, Stiassny, 2011; Decru *et al.*, 2017; Kisekelwa *et al.*, 2020).

Micralestes lualabae Poll, 1967

Micralestes lualabae Poll, 1967:44, fig. 6. Type locality: Kindu, riv. Lualaba, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 70201.

Distribution: 535, 537, 539, 540, 545, 549 (Poll, 1967; Stiassny, Mamonekene, 2007; Banister, Bailey, 1979).

Micralestes occidentalis (Günther, 1899)

Petersius occidentalis Günther, 1899:731, Pl. 45 (fig. B). Type locality: Kotchwah River, Gold Coast. [Ghana]. Syntypes: (6) BMNH 1899.12.22.32-36 (5).

Micralestes voltae Roman, 1966:67, Pl. 3 (figs. 5-6). Type locality: Niamé, ruisseau qui se déverse dans le Kou, affluent de la Volta Noire, à environ 20 km de Bobo-Dioulasso. [Burkina Faso]. Holotype: RMCA 141158.

Distribution: 506, 507, 510, 511, 512, 513, 514, 515, 516, 517 (Poll, 1967; Paugy, 2003).

Micralestes pabrensis (Roman, 1966)

Phenacogrammus pabrensis Roman, 1966: 71, Pl. 4 (figs. 7, 8). Type locality: dans

la retenue d'eau de Pabré, bassin de la Volta Blanche, à 22 km au N-E de Ouagadougou. [Burkina Faso]. Holotype: RMCA 141261.

Distribution: 516 (Poll, 1967; Paugy, 2003).

Micralestes schelly Stiassny, Mamonekene, 2007

Micralestes schelly Stiassny, Mamonekene, 2007:21, figs. 5, 6. Type locality: Democratic Republic of Congo, Bas Congo Province, Congo River main channel near Inga at point 50 (5°31.69 S 13°36.47 E). Holotype: AMNH 240662.

Distribution: 549 (Stiassny, Mamonekene, 2007).

Micralestes stormsi Boulenger, 1902

Micralestes stormsi Boulenger, 1902b:265, Pl. 28 (figs. 1–2). Type locality: Lindi River, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1902.4.14.28–31 (4), IRSNB 8 (21), MSNM 3 (1).

Alestes stolatus Boulenger, 1920b:17. Type locality: Poko, Congo belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.115 (1); RMCA 8050 (2).

Distribution: 535, 536, 537, 539, 540, 541, 542, 543, 545, 546, 548, 549, 550 (Poll, 1967; Stiassny, Mamonekene, 2007; Banister, Bailey, 1979; De Vos *et al.*, 2001).

Micralestes vittatus (Boulenger, 1917)

Alestes vittatus Boulenger, 1917:363. Type locality: Lufuko River at Pala, Lake Tanganyika. [Democratic Republic of the Congo]. Syntypes: BMNH 1920.5.25.32–33 (2); RMCA 11547–548 (2); RMCA 14323 (1); RMCA 14324 (1).

Distribution: 542 (Poll, 1967).

NANNOPETERSIUS Hoedeman, 1956

G Boden

Nannopetersius Hoedeman, 1956d:560. Type species: *Petersius ansorgii* Boulenger, 1910. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Phenacogrammus*. *Nannopetersius* appeared first in Hoedeman (1951) as a subgenus of *Alestopetersius* it included two species but no type was established (Art. 13.3).

Nannopetersius ansorgii (Boulenger, 1910)

Petersius ansorgii Boulenger, 1910:543. Type locality: Bengo River at Cabiri and Lake Kilunda, Angola. Lectotype: BMNH 1910.11.28.71 (65 mm, male). [Designated by Poll (1967)].

Petersius ubalo Boulenger, 1910:544. Type locality: Lakes Rumango and Kilunda, Angola. Syntypes: ANSP 37917–37922 (7); BMNH 1910.11.28.87–92 (6); BMNH 1910.11.28.93–100 (8); ZMB 18208 (7).

Distribution: 532, 533, 550, 551 (Poll, 1967; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

Nannopetersius lamberti Poll, 1967

Nannopetersius lamberti Poll, 1967:118, fig. 26. Type locality: P.K. 98, Pointe Noire, Sunda (Rép. Congo-Brazzaville). [Republic of the Congo]. Holotype: RMCA 153760.

Distribution: 532, 533 (Poll, 1967; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

Nannopetersius mutambuei Wamuini Lunkayilakio, Vreven, 2008

Nannopetersius mutambuei Wamuini Lunkayilakio, Vreven, 2008:369, fig. 2. Type locality: Democratic Republic of Congo (DRC): Lower-Congo: Ngufu River, tributary of Inkisi River, at bridge Luangu village, Kavuya village, 5°04'44.2"S 15°07'51.0"E. Holotype: RMCA 2006-007-P-0222.

Distribution: 550 (Wamuini Lunkayilakio, Vreven, 2008).

PETERSIUS Hilgendorf, 1894

G Boden

Petersius Hilgendorf, 1894:172. Type species: *Petersius conserialis* Hilgendorf, 1894. Type by monotypy. Gender: Masculine.

Remarks: Systematic review by (Melo, Stiassny, 2022).

Petersius conserialis Hilgendorf, 1894

Petersius conserialis Hilgendorf, 1894:173. Type locality: Kinganiflusse in Deutsch-Ostafrika. [The type locality as indicated on the labels is more detailed as "Kingani River at Dunda". Tanzania]. Syntypes: FMNH 54287 (1), ZMB 13535 (4) (Melo, Stiassny, 2022).

Distribution: 564 (Poll, 1967; Melo, Stiassny, 2022).

Remarks: Species redescribed by Melo, Stiassny, 2022.

PHENACOGRAMMUS Eigenmann, 1907

G Boden

Phenacogrammus Eigenmann, in Eigenmann, Ogle, 1907:30. Type species: *Micralestes interruptus* Boulenger, 1899. Type by original designation. Gender: Masculine.

Hemigrammalestes Pellegrin, 1926:158. Type species: *Micralestes urotaenia* Boulenger, 1909. Type by subsequent designation. Gender: Masculine. Additional comments: Type designated first by Burton in Zoological Record for 1926.

Phenacogrammus aurantiacus (Pellegrin, 1930)

Hemigrammopetersius aurantiacus Pellegrin, 1930:206. Type locality: Sangha, affluent de droite du Congo. [Republic of the Congo]. Syntypes: MNHN 1929-0244 (14, now 13); MNHN 2011-0171 (1).

Hemigrammopetersius trilobatus Pellegrin, 1931:207. Type locality: Lali, tributaire du Kouilou. [Republic of the Congo]. Syntypes: MNHN 1930-0249 (4, now 3); MNHN 1930-0250 (2); MNHN 2011-0170 (1).

Phenacogrammus heterodontus Poll, 1945:56, fig. 9. Type locality: Kunungu, Congo belge. [Democratic Republic of the Congo]. Holotype: RMCA 44610.

Distribution: 532, 533, 534, 535, 537, 539, 540, 546 (Poll, 1967; Paugy, Schaefer, 2007; Monsembula Iyaba, Stiassny, 2013; Mbimbi Mayi Munene, Stiassny, 2011; Mamonekene, Stiassny, 2012a).

Phenacogrammus concolor Stiassny, Alter, Monsembula Iyaba, Liyandja, 2021

Phenacogrammus concolor Stiassny, Alter, Monsembula Iyaba, Liyandja, 2021:14, figs. 1B, 6. Type locality: Democratic Republic of Congo, Mai-Ndombe Province,

Ndzaa River (02°58'25.08"S, 18°7'55.26"E). Holotype: AMNH 274786.

Distribution: 546 (Stiassny *et al.*, 2021b).

Phenacogrammus deheynei Poll, 1945

Phenacogrammus deheynei Poll, 1945:54, fig. 8. Type locality: Mumbia, Territ. de Lisala, Congo belge. [Type localities of paratypes also include: "Kunungu, Congo belge", "Mistandunga, fl. Congo, Congo belge" and "Bolobo, Congo belge". Democratic Republic of the Congo]. Holotype: RMCA 57789.

Distribution: 535, 537, 539 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

Phenacogrammus flexus Stiassny, Alter, Monsembula Iyaba, Liyandja, 2021

Phenacogrammus flexus Stiassny, Alter, Monsembula Iyaba, Liyandja, 2021:10, figs. 1A, 5. Type locality: Democratic Republic of Congo, Mai-Ndombe Province, Ndzaa River (02°58'25.08"S, 18°7'55.26"E). Holotype: AMNH 274785.

Distribution: 546 (Stiassny *et al.*, 2021b).

Phenacogrammus interruptus (Boulenger, 1899)

Micralestes interruptus Boulenger, 1899b:88, Pl. 36 (fig. 6). Type locality: Stanley Pool, Congo. [Democratic Republic of the Congo]. Lectotype: RMCA 817. [Designated by Poll (1967)].

Distribution: 534, 535, 537, 539, 540, 546, 548 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013; Mbimbi Mayi Munene, Stiassny, 2011).

Phenacogrammus major (Boulenger, 1903)

Petersius major Boulenger, 1903a:436. Type locality: Ja River, southern Cameroon. Syntypes: BMNH 1903.7.28.221–222 (2).

Distribution: 505, 533, 534 (Poll, 1967; Paugy, Schaefer, 2007; Amiet, Nzeyimana, 1990).

Phenacogrammus polli Lambert, 1961

Phenacogrammus polli Lambert, 1961:17, Pl. 2 (fig. 2). Type locality: riv. Lomela à Lomela, Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 125500.

Distribution: 537, 540 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

Phenacogrammus stigmatura (Fowler, 1936)

Micralestes stigmatura Fowler, 1936:257, fig. 9. Type locality: Thirty kilometers east of Kribi, Cameroons. [Cameroon]. Holotype: ANSP 65552. [Holotype incorrectly published as ANSP 65551 in Fowler (1936)].

Distribution: 533 (Poll, 1967).

Phenacogrammus urotaenia (Boulenger, 1909)

Micralestes urotaenia Boulenger, 1909a:228, fig. 172. Type locality: Kribi R. at Efulen, south Cameroon. Syntypes: BMNH 1903.7.28.136–139 (4).

Distribution: 532, 533 (Poll, 1967; Paugy, Schaefer, 2007; Mamonekene, Stiassny, 2012a).

RHABDALESTES Hoedeman, 1951

G Boden

Rhabdalestes Hoedeman, 1951:6 (in key). Type species: *Petersius tangensis* Lönnberg, 1907. Type by monotypy (one species, two subspecies); nominate subspecies is type. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Micralestes*.

Rhabdalestes aeratis Stiassny, Schaefer, 2005

Rhabdalestes aeratis Stiassny, Schaefer, 2005: 273, fig. 1. Type locality: Democratic Republic of Congo: main channel outlet from Lake Tumba near Irebu, 0° 35.84'S, 17° 46.96'E. Holotype: AMNH 235767.

Distribution: 538, 546 (Stiassny *et al.*, 2021a; Stiassny, Schaefer, 2005).

Rhabdalestes brevidorsalis (Pellegrin, 1921)

Petersius brevidorsalis Pellegrin, 1921:49. Type locality: Fort-Crampel (Gribingui). [Central African Republic]. Syntypes: MNHN 1921-0010 (2).

Distribution: 505, 520 (Poll, 1967; Paugy, 2003).

Rhabdalestes maunensis (Fowler, 1935)

Petersius maunensis Fowler, 1935:259, fig. 5. Type locality: Thamalakane River at Maun. [Botswana]. Holotype: SAIAB [formerly RUSI] 30004.

Distribution: 552, 553, 555, 556, 557, 558, 569 (Poll, 1967; Skelton, 2001; Hay *et al.*, 1999; Marshall, 2011).

Rhabdalestes rhodesiensis (Ricardo-Bertram, 1943)

Petersius rhodesiensis Ricardo-Bertram, 1943:201. Type locality: Chambezi River, the swamps and the edge of Lake Bangweulu, Northern Rhodesia. [Zambia]. Syntypes: BMNH 1943.4.27.142–145 (4).

Distribution: 544, 545 (Poll, 1967; Skelton, 2001; Van Steenberge *et al.*, 2014).

Rhabdalestes septentrionalis (Boulenger, 1911)

Petersius septentrionalis Boulenger, 1911a:373. Type locality: Geba and Culufi Rivers, Portuguese Guinea. [Guinea-Bissau]. Syntypes: BMNH 1912.4.1.44–49 (6, now 5); RMCA 7093 (1); ZMB 18441 (6). [Type status uncertain for MCZ 31506 (1) Portuguese Guinea].

Petersius loenbergi Svensson, 1933: 57, Pl. 2 (fig. 2). Type locality: swamps, Gambia River, British West Africa. [Gambia]. Syntypes: NRM 10229 (4); NRM 13920 (2); NRM 14347 (17); NRM 14400 (2); NRM 14401 (2); NRM 14402 (1); NRM 14403 (29); NRM 14404 (8).

Petersius intermedius Blache, Miton, 1960:103. Type locality: Lac Tchad (zone E. S.-E. en bordure des Îlots-bancs: loc. Bangarom). [Chad]. Syntypes: MNHN 1959-0228 (5, now 4); RMCA 154724 (1); CEPFL 1838–1847 (10); CEPFL 1859–1863 (5); CEPFL no number (16). [Original description gives both “types” (MNHN 1959-0228) and “paratypes” (CEPFL 1838–1847, CEPFL 1859–1863 and 16 unregistered CEPFL specimens), all to be treated as syntypes (See ICZN, 1999: Art. 72.1 and 73.2)].

Distribution: 505, 506, 507, 509, 510, 511, 514, 515, 516, 517, 518, 520 (Poll, 1967; Paugy, 2003; Paugy, Schaefer, 2007).

Rhabdalestes tangensis (Lönnerberg, 1907)

Petersius tangensis Lönnerberg, 1907:2. Type locality: a pool on inundated ground at Tanga. [Tanzania]. Syntypes: BMNH 1907.12.20.1–2 (2); NRM 9744 (18, now 13). [3 specimens of NRM 9744 were removed because they were identified as *Barbus* by Greenwood in 1962:192].

Rhabdalestes leleupi Poll, 1967:130, fig. 28. Type locality: Kenya, lac Jipe, Teita distr., rive N.E., alt. 1.000 m. Holotype: RMCA 153759. Placed in the synonymy of *Rhabdalestes tangensis* (Lönnerberg, 1907) by Bailey (1983); confirmed by Seegers

et al. (2003).

Distribution: 568 (Poll, 1967; Seegers *et al.*, 2003).

Rhabdalestes yokai Ibala Zamba, Vreven, 2008

Rhabdalestes yokai Ibala Zamba, Vreven, 2008: 378, fig. 1. Type locality: Republic of Congo: Léfini River, access canal to Lake Itsotso, left bank of Louna River, Lésio-Louna Natural Reserve, 3°03'S, 15°49'E. Holotype: RMCA 2004-046-P-0258.

Distribution: 534, 535, 537 (Decru *et al.*, 2017; Ibala Zamba, Vreven, 2008).

TRICUSPIDALESTES Poll, 1967

G Boden

Tricuspidalestes Poll, 1967:142. Type species: *Phenacogrammus caeruleus* Matthes, 1964. Type by original designation. Gender: Masculine.

Tricuspidalestes caeruleus (Matthes, 1964)

Phenacogrammus caeruleus Matthes, 1964b:53, Pl. 2a–b. Type locality: riv. Boteli, Congo belge. [Democratic Republic of the Congo]. Holotype: RMCA 138534. Distribution: 537 (Poll, 1967; Monsembula Iyaba, Stiassny, 2013).

Species inquirenda (Alestidae)

G Boden

Alestopetersius hilgendorfi kribensis Hoedeman, 1951:7 (in key). Type locality: Africa [Type locality was not specified in the original description; species was described in an identification key following the study of supplementary material of African characid fishes from Belgian Congo. Type locality supposedly from the Kribi River, Cameroon (Matthes, 1964a)]. No types known.

Remarks: This subspecies was described by Hoedeman (1951) in an identification key. No type was designated and no locality was given in the original description. According to Matthes (1964b) there are no specimens in the collections of the Amsterdam Zoological Museum, and the subspecies is supposedly from the Kribi River in Cameroon. According to Poll (1967) the type was apparently lost.

ANOSTOMIDAE Günther, 1864

JLO Birindelli

Anostomatina Günther, 1864:279. Type genus: *Anostomus* Scopoli, 1777. Additional comments: Correct spelling Anostom-. Günther (1864:279) misspelled Anostomatina. Gill (1896b:209) corrected the stem to Anostom-.

Pithecocharacinae Fowler, 1906:319. Type genus: *Pithecocharax* Fowler, 1906. Additional comments: Pithecocharacinae Fowler, 1906 is a junior objective synonym of Anostomatina Günther, 1864 because *Pithecocharax* Fowler, 1906 is an objective junior synonym of *Anostomus* Scopoli, 1777.

Leporellinae Eigenmann, 1910:427. Type genus: *Leporellus* Lütken, 1875.

Leporininae Eigenmann, 1912a:96. Type genus: *Leporinus* Agassiz, 1829.

ABRAMITES Fowler, 1906

Abramites Fowler, 1906:331. Type species: *Leporinus hypselonotus* Günther, 1868. Type by original designation. Gender: Masculine.

Abramites eques (Steindachner, 1878)

Leporinus eques Steindachner, 1878:90. Type locality: Magdalena-Stromes. [Río Magdalena, Colombia]. Lectotype: NMW 69549. [Designated by Vari, Williams (1987)].

Distribution: 302 (Steindachner, 1878).

Remarks: The species is rare in Colombia, where it is considered threatened (Mojica *et al.*, 2012).

Abramites hypselonotus (Günther, 1868)

Leporinus hypselonotus Günther, 1868a:480. Type locality: Xeberos. [Xeberos (= Jeberos) is a village in the Peruvian Amazon (Department of Loreto, Peru) near the Río Aipana, a small tributary that joins the Río Huallaga near the latter's confluence with Río Marañon]. Lectotype: BMNH 1867.6.13.40. [Designated by Vari, Williams (1987:97)].

Leporinus solarii Holmberg, 1891:187. Type locality: República Argentina, Misiones, Río Alto Paraná. [Lower Río Paraná basin in Misiones, Argentina]. No types known. [The holotype was deposited at Museo de la Escuela Normal de Profesoras de la Capital, but is currently considered lost].

Abramites microcephalus Norman, 1926:92. Type locality: near the mouth of river Amazon. [Brazil]. Holotype: BMNH 1926.3.2.571.

Abramites ternetzi Norman, 1926:93. Type locality: São Luís and Descalvados, Mato Grosso, Southern Brazil [São Luís refers to the city of Cáceres, and Descalvados refers to Fazenda Descalvado, at Cáceres, Brazil, Lectotype locality: São Luís]. Lectotype: BMNH 1895.5.17.156. [Designated by Vari, Williams (1987:97)].

Leporinus nigripinnis Meinken, 1935:193, fig. 1. Type locality: Corrientes/Argentinien. [Argentina]. Syntypes: ZMB 21916 (3). [(Zarske, 2012a:45)].

Distribution: 307, 314, 316, 318, 321, 319, 343, 324, 323 (Vari, Williams, 1987).

ANOSTOMOIDES Pellegrin, 1909

Anostomoides Pellegrin, 1909c:346. Type species: *Anostomoides atrianalis* Pellegrin, 1908. Type by monotypy. Gender: Masculine.

Anostomoides atrianalis Pellegrin, 1909

Anostomoides atrianalis Pellegrin, 1909c:346 [5]. Type locality: Orénoque. [Río Orinoco, Venezuela]. Lectotype: MNHN 1887-0761. [Designated by Assega, Birindelli (2019:132)].

Schizodontopsis laticeps Eigenmann, 1912a:299, Pl. 41 (fig. 4). Type locality: Crab Falls. [Crab Falls, Essequibo River, Guyana]. Holotype: FMNH 53359. [Assega, Birindelli (2019:132)]. Synonymy proposed by Assega, Birindelli, 2019:129.

Distribution: 307, 308, 310, 314, 316, 321, 324 (Mago Leccia, 1970; Assega, Birindelli, 2019).

ANOSTOMUS Scopoli, 1777

Anostomus Scopoli, 1777:451. Type species: *Salmo anostomus* Linnaeus, 1758. Type by tautonymy. Gender: Masculine.

Anostomus Cuvier, 1816:165. Type species: *Salmo anostomus* Linnaeus, 1758. Type by original designation. Gender: Masculine. Additional comments: Unjustified replacement name.

Mormyrinchus Swainson, 1839:186, 291. Type species: *Mormyrinchus gronoveii* Swainson, 1839. Type by monotypy. Gender: Masculine. Additional comments: Swainson 1839:291 argued this to be a replacement name because *Anostomus* was preoccupied by Lamarck 1822's *Anostoma*, a genus of Gastropoda.

Histiodromus Gistel, 1848:VIII. Type species: *Salmo anostomus* Linnaeus, 1758. Type by being a replacement name. Gender: Masculine. Additional comments: According to Jordan (1918:337) this was a replacement for *Anastomus* Illiger, 1835, a genus of birds.

Pithecocharax Fowler, 1906:319. Type species: *Salmo anostomus* Linnaeus, 1758. Type by being a replacement name. Gender: Masculine. Additional comments: Unneeded replacement name. Fowler argued that this was a replacement name because *Anostomus* Klein, in Walbaum, 1792, was preoccupied as *Anastomus* Bonnaterre, 1791, a genus of birds. However, Walbaum's classification did not fit the criteria of the ICZN and is currently considered invalid (Jordan, 1963:36).
Remarks: *Anostomus* was first described in Gronovius (1763:122) but it is considered invalid because the classification provided in that publication is not binomial.

Anostomus anostomus (Linnaeus, 1758)

Salmo anostomus Linnaeus, 1758:312. Type locality: Indiis. ["Indiis" may refer to Central and South America, however holotype is from Suriname]. Holotype: ZMUC 89.

Anostomus gronovii Schinz, 1822:279. Type locality: Sud-amerika. Holotype: ZMUC 89.

Mormyrinchus gronoveii Swainson, 1839:291. Type locality: Rivers of America. Holotype: ZMUC 89.

Anostomus gronovii Müller, Troschel, 1844:87. Type locality: [Suriname]. Holotype: ZMUC 89.

Anostomus salmoneus Gronovius, in Gray, 1854:153. Type locality: Habitat in Indiis. Holotype: ZMUC 89.

Distribution: 310, 311, 307, 308, 314, 316, 321, 323 (Winterbottom, 1980; Sidlauskas, Vari, 2012).

Remarks: *Salmo anostomus* Linnaeus, 1758, was based on the description and illustration given by Gronovius (1756 : 13, pl. VIII, fig. 2), who based his study on one specimen catalogued at ZMUC under catalog number 89, and labelled as collected in Suriname. The specimen was recognized as the holotype of *Salmo anostomus* Linnaeus by Wheeler (1989). All other nominal species (*Anostomus gronovii* Schinz, 1822, *Mormyrinchus gronoveii* Swainson, 1839, *Anostomus gronovii* Müller, Troschel, and *Anostomus salmoneus* Gronovius in Gray, 1854)

are objective synonyms as those names were proposed as unjustified replacement names based on Gronovius' (1756) description.

Anostomus brevior Géry, 1961

Anostomus brevior Géry, 1961b:499, fig. 1. Type locality: Guyane Française, Rivière Camopi, affluent de l'Oyapok. [French Guiana]. Holotype: MNHN 1901-0405. Distribution: 311 (Planquette *et al.*, 1996; Sidlauskas, Vari, 2012).

Anostomus longus Géry, 1961

Anostomus anostomus longus Géry, 1961b:502, fig. 1. Type locality: Amazone Péruvienne, Rio Nucuray, près de son confluent avec le Rio Marañon, à proximité de Concordia. Holotype: MHNG 2197.04.

Distribution: 316 (Winterbottom, 1980).

Remarks: The validity of this species is still debatable, as it may be a junior synonym of *Anostomus anostomus*, as discussed by Winterbottom (1980).

Anostomus ternetzi Fernández-Yépez, 1949

Anostomus ternetzi Fernández-Yépez, 1949a:293, figure. Type locality: Palital, Estado Guárico, Venezuela. Holotype: MHNLS 427.

Distribution: 310, 311, 307, 308, 314, 316, 321, 323 (Winterbottom, 1980).

GNATHODOLUS Myers, 1927

Gnathodolus Myers, 1927:108. Type species: *Gnathodolus bidens* Myers, 1927. Type by original designation. Gender: Masculine.

Gnathodolus bidens Myers, 1927

Gnathodolus bidens Myers, 1927:108. Type locality: Venezuela: Río Cassiquiari, Chemoni (near bifurcation). Holotype: CAS 20087.

Distribution: 307, 308, 314, 315, 316 (Winterbottom, 1980; Santos, Jégu, 1987).

HYPOMASTICUS Borodin, 1929

Hypomasticus Borodin, 1929:272. Type species: *Leporinus mormyrops* Steindachner, 1875. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Leporinus*.

Hypomasticus copelandi (Steindachner, 1875)

Leporinus copelandii Steindachner, 1875b:236 [26], Pl. 5. Type locality: Rio Parahyba und dessen Nebenflüsse bei Mendez, Juiz de fora; Rio doce, Rio S. Matheos, Rio Jequitinhonha und Rio Quenda bei Santa Cruz. [Brazil]. Syntypes: (many) MCZ 19773 (1), 19775 (1), 20359 (1), 20408–410 (3, 1, 4), 20420 (3), 20460 (1), 20490–91 (9, 1); MNHN 1913-0134 (1); NMW 68379–87 (2, 1, 1, 1, 2, 1, 1, 1, 3), 68391–94 (2, 1, 1, 3), 69592 (2); ZMUC 969 (1).

Distribution: 329, 328 (Steindachner, 1875b).

Remarks: Transferred to *Hypomasticus* by Birindelli *et al.*, 2020.

Hypomasticus despaxi (Puyo, 1943)

Leporinus despaxi Puyo, 1943:141 [1], fig. 1. Type locality: une crique de la rive gauche du Marouni supérieur. [French Guiana]. [The two syntypes (100 and 104

- mm of total length) are apparently lost (Birindelli *et al.*, 2013)].
 Distribution: 311 (Sidlauskas, Vari, 2012; Birindelli *et al.*, 2013).
 Remarks: The species was transferred to *Hypomasticus* by Géry (1960a: 28), Sidlauskas, Vari (2008:74).
- Hypomasticus julii*** (Santos, Jégu, Lima, 1996)
Leporinus julii Santos, Jégu, Lima, 1996:273, figure. Type locality: Rio Xingu, Cachoeira Kaituka. [Brazil]. Holotype: INPA 10987.
 Distribution: 322, 320, 316 (Santos *et al.*, 1996).
 Remarks: Transferred to *Hypomasticus* by Sidlauskas, Vari (2008).
- Hypomasticus lineomaculatus*** Birindelli, Peixoto, Wosiacki, Britski, 2013
Hypomasticus lineomaculatus Birindelli, Peixoto, Wosiacki, Britski, 2013:464, figs. 1, 3, 4. Type locality: Brazil, Pará, Almeirim, creek tributary of Rio Paru, 0°51'13.8"N, 53°57'05.8"W. Holotype: MGB 15573.
 Distribution: 315 (Birindelli *et al.*, 2013).
- Hypomasticus megalepis*** (Günther, 1863)
Leporinus megalepis Günther, 1863:443. Type locality: Essequibo, Guiana. Lectotype: BMNH 1864.1.21.45. [Designated by Géry *et al.*, 1988].
 Distribution: 310, 311 (Sidlauskas, Vari, 2012).
 Remarks: Transferred to *Hypomasticus* by Géry (1960).
- Hypomasticus mormyrops*** (Steindachner, 1875)
Leporinus mormyrops Steindachner, 1875b:240 [30], Pl. 6. Type locality: Rio Parahyba im oberen Laufe und dessen Nebenfluss Piabinha. [Rio Paraíba do Sul and its tributary Rio Piabinha in Brazil]. Syntypes: (several) MCZ 20366 (5), 20369 (1); ?MNHN 1913-0132 and 0133 (2) Río Doce; NMW 68350-54 (3, 1, 2, 2, 1); USNM 120420 (1).
 Distribution: 329, 328 (Steindachner, 1875b).
- Hypomasticus pachycheilus*** (Britski, 1976)
Leporinus pachycheilus Britski, 1976:87, figs. 1-2. Type locality: Rio Aripuanã, acima da cachoeira de Dardanelos, Estado do Mato Grosso. [Brazil]. Holotype: MZUSP 13074.
 Distribution: 324, 318, 316, 321 (Santos *et al.*, 1996).
 Remarks: Transferred to *Hypomasticus* by Sidlauskas, Vari (2008).
- Hypomasticus santanai*** Birindelli, Melo, 2020
Hypomasticus santanai Birindelli, Melo, 2020:417, figs. 1-2. Type locality: Brazil, Bahia, Dario Meira, Rio Gongogi, tributary of Rio de Contas, approximately 2 km above city, 14°27'44.2"S, 39°55'01.4"W. Holotype: MZUEL 18604.
 Distribution: 328 (Birindelli *et al.*, 2020).
- Hypomasticus steindachneri*** (Eigenmann, 1907)
Leporinus steindachneri Eigenmann, in Eigenmann, Ogle, 1907:9. Type locality: Rio Arassuahy, ein Nebenfluss des Rio Jequitinhonha in der brasilianischen Provinz Minas Geraes. [Brazil]. Holotype: NMW 68405. [Replacement for *Leporinus affinis* Steindachner, 1875].
Leporinus affinis Steindachner, 1875b:228 [18], Pl. 3. Type locality: Rio Arassuahy, ein Nebenfluss des Rio Jequitinhonha in der brasilianischen Provinz Minas Geraes. [Brazil]. Holotype: NMW 68405. Preoccupied by *Leporinus affinis* Günther, 1864. Replaced by *Leporinus steindachneri* Eigenmann, 1907.

Distribution: 328, 329 (Garavello, Britski, 2003).

Remarks: Transferred to *Hypomasticus* by Birindelli *et al.*, 2020.

Hypomasticus thayeri (Borodin, 1929)

Leporinus thayeri Borodin, 1929:273, Pl. 2. Type locality: Rio Paraíba, Brazil. [Rio Paraíba do Sul, Brazil]. Holotype: MCZ 20364.

Distribution: 329, 328 (Vieira, Birindelli, 2008).

Remarks: Notes on conservation status available in Vieira, Birindelli (2008).

INSPERANOS Assega, Sidlauskas, Birindelli, 2021

Insperanos Assega, Sidlauskas, Birindelli, 2021:649. Type species: *Leporinus nattereri* Steindachner, 1876. Type by original designation. Gender: Masculine.

Insperanos nattereri (Steindachner, 1876)

Leporinus nattereri Steindachner, 1876c:114 [66], Pl. 12 (fig. 1). Type locality: Mündung des Rio Negro und bei Teffé in den Ausständen des Amazonenstromes. Lectotype: NMW 68346. [Designated by Assega, Birindelli, 2019:138].

Anostomoides passionis Santos, Zuanon, 2006:60, figs. 1–3. Type locality: Brasil, State of Pará: rio Xingu, Viracebo do Arroz Cru (3°25'15.7"S, 51°55'08.3"W).

Holotype: INPA 13182. Synonymy proposed by Assega, Birindelli, 2019:136.

Distribution: 307, 308, 316, 314,320, 322, 324 (Assega, Birindelli, 2019:139).

LAEMOLYTA Cope, 1872

Laemolyta Cope, 1872:258. Type species: *Schizodon taeniatus* Kner, 1859. Type by monotypy. Gender: Feminine.

Schizodontopsis Garman, 1890a:16, 18. Type species: *Anostomus proximus* Garman, 1890. Type by subsequent designation by Jordan, 1920:451. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Anostomus*.

Laemolyta fernandesi Myers, 1950

Laemolyta fernandesi Myers, 1950:197. Type locality: Upper Orinoco. [Venezuela]. Holotype: SU 16126.

Laemolyta petiti Géry, 1964d:464, Pl. 4b. Type locality: Ilha do Bananal, haut Rio Araguaia, Brésil. [Brazil]. Holotype: MHNG 2229.01.

Distribution: 322, 324, 308, 309 (Mautari, Menezes, 2006).

Laemolyta garmani (Borodin, 1931)

Anostomus (Schizodontopsis) garmani Borodin, 1931:47, Pl. 4 (fig. 1). Type locality: Silva Lake, Saraca, Brazil. [Lake Saraca' at Silves (02°53'S, 58°21'W in Mautari, Menezes, 2006)]. Holotype: MCZ 19370.

Laemolyta garmani macra Géry, 1974:153, fig. 2. Type locality: Environs de Concordia, rio Nucuray, affluent du rio Marañon (en aval du confluent du Huallaga). [Peru]. Holotype: MHNG 2197.38.

Distribution: 323, 321, 316 (Mautari, Menezes, 2006).

Laemolyta orinocensis (Steindachner, 1879)

Anostomus orinocensis Steindachner, 1879b:150. Type locality: Orinoco bei Ciudad Bolivar. [Venezuela]. Lectotype NMW 62820. [Designated by Mautari, Menezes, 2006:36].

Distribution: 307, 308, 309 (Mautari, Menezes, 2006).

Laemolyta proxima (Garman, 1890)

Anostomus proximus Garman, 1890a:19. Type locality: Villa Bella and Ueranduba, Brazil. [According to Higuchi (1996), Villa Bella is Rio Amazonas at Parintins and Ueranduba is Lago de Iranduba]. Lectotype: MCZ 19331. [Designated by Mautari, Menezes, 2006:38].

Anostomus varius Garman, 1890a:19. Type locality: Gurupa, José Fernandez, Lake Hyanuary, Manaus, Obydos, Porto de Moz, Rio Negro. [Brazil]. Syntypes: MCZ 809 (1), 19335 (orig. 8, now 6), 19340–41 (3, 1), 19348 (orig. 3, now 2), 19378 (orig. 7, now 5), 19532 (1); USNM 120398 (1).

Anostomus varius var. *nitens* Garman, 1890a:20. Type locality: Iça. [Iça, Amazon River, Brazil]. Syntypes: MCZ 19367 (now 8); USNM 120242 (3).

Distribution: 323, 316, 314, 321, 320, 310, 315 (Mautari, Menezes, 2006).

Remarks: Géry (1974) proposed *Anostomus proximus* as senior synonym of *A. varius*, thus acting as first reviser.

Laemolyta taeniata (Kner, 1858)

Schizodon taeniatus Kner, 1858a:78. Type locality: [provided in Kner (1859) as Rio Guapore, Manaus, Mato Grosso]. Lectotype: NMW 81379 (1 of 2, 159.4 mm SL) [designated by Mautari, Menezes (2006:41)]

Distribution: 307, 308, 323, 316, 314, 324, 321, 318, 319 (Mautari, Menezes, 2006).

LEPORELLUS Lütken, 1875

Leporellus Lütken, 1875c:129. Type species: *Leporinus pictus* Kner, 1858. Type by monotypy. Gender: Masculine.

Leporinodus Eigenmann, 1922:116. Type species: *Leporinodus retropinnis* Eigenmann, 1922. Type by original designation. Gender: Masculine.

Remarks: The validity of nominal species of the wide-ranging genus *Leporellus* is still under debate. Currently, nominal species from the same basin have been considered synonyms of distinct valid species. Based on the the type locality of the nominal species of *Leporellus*, two species may be considered as valid, one for the Amazon/Magdalena and another for the São Francisco and upper Paraná.

Leporellus pictus (Kner, 1858)

Leporinus pictus Kner, 1858a:79. Type locality: [provided in Kner (1859) as Irisanga]. Holotype: NMW 81315.

Leporinodus retropinnis Eigenmann, 1922:116. Type locality: Piracicaba. [Brazil]. Holotype: FMNH 55174.

Leporellus timbore Eigenmann, 1922:117. Type locality: Rio das Velhas. [Brazil]. Holotype: FMNH 55175.

Leporellus cartledgei Fowler, 1941b:177, fig. 89. Type locality: Penedo, Rio São Francisco, Pernambuco. [Brazil]. Holotype: ANSP 69522. The species is considered a junior synonym of *Leporellus pictus* (Garavello, Britski, 2003).

Distribution: 332, 344, 345 (Garavello, Britski, 2003).

Leporellus vittatus (Valenciennes, 1850)

Leporinus vittatus Valenciennes, in Cuvier, Valenciennes, 1850:33. Type locality: l' Amazone. [Amazon river in Brazil]. Holotype: MNHN A-9802 (dry, poor condition).

Leporinodus sexdentatus Eigenmann, 1922:117. Type locality: Magdalena basin. [The species was described based on a specimen described by Steindachner (1880), reported by him as from "Cauca", and identified by him as *Leporellus vittatus*. Eigenmann, however, mentioned that Steindachner reported the specimen as from "Cauca near Caceres," but also from the "Magdalena basin"]. No types found.

Distribution: 307, 308, 309, 310, 314, 315, 316, 318, 319, 320, 321, 322, 323, 324. (Garavello, Britski, 2003).

LEPORINUS Agassiz, 1829

Leporinus Agassiz, in Spix, Agassiz, 1829:58, 65. Type species: *Leporinus novemfasciatus* Spix, Agassiz, 1829. Type by monotypy. Gender: Masculine.

Myocharax Fowler, 1914a:239. Type species: *Leporinus desmotes* Fowler, 1914. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Leporinus*.

Leporinops Géry, 1960e:308. Type species: *Leporinus moralesi* Fowler, 1942. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Leporinus*.

Leporinus acutidens (Valenciennes, 1837)

Curimatus acutidens Valenciennes, 1837:no p., Pl. 8 (fig. 1). Type locality: L'Amérique Méridionale. [unknown (type locality is South America)]. No types known.

Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 318, 321, 319, 320, 322, 323, 324, 343, 344, 332, 345 (Garavello, Britski, 2003).

Remarks: The species is possibly synonym of *Leporinus friderici* (Garavello, Britski, 2003).

Leporinus affinis Günther, 1864

Leporinus affinis Günther, 1864:308. Type locality: Rio Capin. [Rio Capim, Pará, Brazil]. Syntypes: BMNH 1849.11.8.52–53 (2) [Two syntypes deposited at the Zoological Society are currently lost].

Distribution: 324, 323 (Garavello, Britski, 2003).

Leporinus agassizii Steindachner, 1876

Leporinus agassizii Steindachner, 1876c:107 [59], Pl. 9 (fig. 4). Type locality: Amazonenstrom bei Tabatinga und Teffé, Rio Iça. [Brazil]. Syntypes: (5) NMW 68416–17 (2, 2).

Leporinus semivittatus Boulenger, 1895b:449. Type locality: Rio Negro, Manaus [Manaus], Brazil. Holotype: BMNH 1893.4.24.39.

Distribution: 314, 314, 316, 307, 308 (Garavello, Britski, 2003; Sidlauskas, Vari, 2012).

Leporinus altipinnis Borodin, 1929

- Leporinus fasciatus altipinnis* Borodin, 1929:280, Pl. 8. Type locality: Jatuarana, Brazil. Syntypes: MCZ 20487 (2).
- Leporinus falcipinnis* Mahnert, Géry, Muller, 1997:838, fig. 1. Type locality: Rio Arapiuns, 1 hr. by boat downstream of mouth of rio Arua, lower Tapajos basin, Para, Brazil, 2°04'S, 55°38'W. Holotype: MZUSP 51827. Status of species discussed by Britski, Birindelli, 2016.
- Distribution: 307, 308, 314, 316 (Britski, Birindelli, 2016).
- Remarks: Status of species discussed by Britski, Birindelli, 2016.
- Leporinus amae*** Godoy, 1980
- Leporinus amae* Godoy, 1980:23, fig. 14. Type locality: Rio Apuaê, cerca de 5 km acima de sua foz (no Rio Pelotas). [Brazil]. Holotype: MHNP. [Whereabouts unknown. The specimen was deposited in a private collection that is not accessible to researchers].
- Distribution: 332, 333 (Almirón *et al.*, 2013; Serra *et al.*, 2013).
- Leporinus amazonicus*** Santos, Zuanon, 2008
- Leporinus amazonicus* Santos, Zuanon, 2008:36, figs. 1–4. Type locality: Brasil, Amazonas: Lago Catalão (03°10'08"S, 59°55'01"W), Rio Amazonas at the confluence of rios Negro and Solimões. [Brazil]. Holotype: INPA 22861.
- Distribution: 316 (Santos, Zuanon, 2008; Sidlauskas *et al.*, 2011).
- Leporinus amblyrhynchus*** Garavello, Britski, 1987
- Leporinus amblyrhynchus* Garavello, Britski, 1987:154, fig. 1a. Type locality: Fazenda Pau D'Alho, Rio Tietê, Itu, SP. [Brazil]. Holotype: MZUSP 14411.
- Distribution: 344 (Garavello, Britski, 1987).
- Leporinus apollo*** Sidlauskas, Mol, Vari, 2011
- Leporinus apollo* Sidlauskas, Mol, Vari, 2011:[11], figs. 3–4. Type locality: Suriname: Saramacca: Coppename River, Sidonkrutu, sand island and channel (04°31'51"N, 56°30'56"W). Holotype: FMNH 116827.
- Distribution: 311 (Sidlauskas, Vari, 2012).
- Leporinus arcus*** Eigenmann, 1912
- Leporinus arcus* Eigenmann, 1912a:300, Pl. 42 (fig. 3). Type locality: Tukeit, Guyana. Holotype: FMNH 53366.
- Distribution: 310, 311 (Sidlauskas, Vari, 2012; Birindelli *et al.*, 2019).
- Leporinus arimaspi*** Burns, Frable, Sidlauskas, 2014
- Leporinus arimaspi* Burns, Frable, Sidlauskas, 2014:207, figs. 1–6. Type locality: Venezuela, Amazonas, Río Casiquiare, 152.92 km NE of San Carlos de Río Negro, 2°47'56"N, 66°00'23"W. Holotype: MBUCV-V-35695.
- Distribution: 307, 308 (Burns, Frable, Sidlauskas, 2014).
- Leporinus aripuanaensis*** Garavello, Santos, 1981
- Leporinus aripuanaensis* Garavello, Santos, 1981:188. Type locality: Rio Aripuanã, Mato Grosso, Brazil. Holotype: MZUSP 14495.
- Distribution: 321, 316 (Santos, Jégu, 1996).
- Remarks: A more detailed description is given by Garavello, Santos, 1992.
- Leporinus bahiensis*** Steindachner, 1875
- Leporinus bahiensis* Steindachner, 1875b:231 [21], Pl. 2 (fig. 2). Type locality: Bahia, Brazil. Syntypes: NMW 83411 (2).
- Distribution: 328 (Garavello, Britski, 2003).

Leporinus bistriatus Britski, 1997

Leporinus bistriatus Britski, 1997:28, fig. 1. Type locality: Igarapé Águas Claras, rio Itacaiunas, Caldeirão, Serra dos Carajás, PA. [Brazil]. Holotype: MZUSP 31477. Distribution: 324 (Britski, 1997).

Leporinus bleheri Géry, 1999

Leporinus bleheri Géry, 1999:108, figs. 5–8. Type locality: Bolivia, Rio Verde, tributary of the Iténez (Guaporé) at the border with Brazil, ca. 30 km from mouth, below cataract, coordinates ca 14°08'S, 60°30'W. Holotype: MHNG 2599.60.

Distribution: 318, 319 (Géry, 1999).

Leporinus boehlkei Garavello, 1988

Leporinus boehlkei Garavello, 1988:144, fig. 1A. Type locality: Colombia, Rio Meta system, stream into Lago Mozambique (Mozambique Ranch), N of the ranch house, ca. 3°58'N, 73°04'W, station number BF-8. Holotype: ANSP 136487.

Distribution: 307 (Garavello, 1988).

Leporinus britskii Feitosa, Santos, Birindelli, 2011

Leporinus britskii Feitosa, Santos, Birindelli, 2011:56, figs. 1–2. Type locality: rio Jamanxim, near Vila Mil, 7°43'51"S, 55°16'36"W, Novo Progresso, Pará. [Brazil]. Holotype: MZUSP 109771.

Distribution: 320, 315 (Feitosa *et al.*, 2011).

Leporinus brunneus Myers, 1950

Leporinus brunneus Myers, 1950:195. Type locality: Caxoeira Camanaos (Camanaos rapids), Rio Negro, Brazil. [Brazil]. Holotype: SU 16125.

Distribution: 316, 321, 320, 314, 307, 308 (Chernoff *et al.*, 1991; Santos, Jégu, 1996).

Leporinus cylindriformis Borodin, 1929

Leporinus cylindriformis Borodin, 1929:288, Pl. 10. Type locality: Porto do Moz, Brazil. Holotype: MCZ 20430.

Distribution: 316 (Sidlauskas *et al.*, 2011).

Leporinus desmotes Fowler, 1914

Leporinus desmotes Fowler, 1914a:239, fig. 5. Type locality: Rupununi River, British Guiana. [Guyana]. Holotype: ANSP 39324.

Distribution: 310, 308, 307, 314, 316, 315, 233, 324, 322, 320, 321, 318, 319 (Sidlauskas, Vari, 2012).

Leporinus ecuadorensis Eigenmann, Henn, 1916

Leporinus ecuadorensis Eigenmann, Henn, 1916:88. Type locality: Rio Barranca Alta near Naranjito, Ecuador. Holotype: CAS 18396.

Distribution: 301 (Eigenmann, Henn, 1916).

Leporinus enyae Burns, Chatfield, Birindelli, Sidlauskas, 2017

Leporinus enyae Burns, Chatfield, Birindelli, Sidlauskas, 2017:13, fig. 10. Type locality: Venezuela, Amazonas, río Iguapo, ca. 1 hour above the mouth, 03°08'59"N; 65°28'00"W. Holotype: MCNG 56681.

Distribution: 308, 314 (Burns *et al.*, 2017).

Leporinus fasciatus (Bloch, 1794)

Salmo fasciatus Bloch, 1794:96, Pl. 379. Type locality: [presumably Suriname. Bloch described *Leporinus friderici* in page 95 and noted that the fish was a resident of Suriname and sent to him by Friderici, then governor of Suriname. In the next

page, he described *Leporinus fasciatus* and noted that the specimen was also sent to him by Friderici. Therefore, the type locality is presumably the same as that of *Leporinus friderici*]. Holotype: ZMB 3543.

Leporinus novemfasciatus Spix, Agassiz, 1829:65, Pl. 37. Type locality: Habitat in Brasiliae aequinoctialis fluviis. [Brazil]. No types known. Author of species name is Agassiz according to Kottelat (1988); author as Spix, Agassiz in Garavello, Britski, 2003).

Leporinus holostictus Cope, 1878:690. Type locality: Peruvian Amazon. Lectotype: ANSP 21467. [Designated by Fowler (1906:330, fig. 20). Treated as holotype by Böhlke (1984:19) and Britski, Birindelli, 2016]. Status of species discussed by Britski, Birindelli, 2016.

Distribution: 307, 308, 310, 311, 314, 315, 316, 318, 321, 319 (Sidlauskas, Vari, 2012).

Leporinus friderici (Bloch, 1794)

Salmo friderici Bloch, 1794:94, Pl. 378. Type locality: Suriname. Holotype: ZMB 3552.

Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 318, 319, 320, 321, 322, 323, 324, 332, 333, 343, 344, , 345 (Garavello, Britski, 2003).

Leporinus geminis Garavello, Santos, 2009

Leporinus geminis Garavello, Santos, 2009:111, figs. 2, 4. Type locality: Brazil, Pará State, Marabá, Rio Tocantins. Holotype: MZUSP 14422.

Distribution: 324 (Garavello, Santos, 2009).

Leporinus gomesi Garavello, Santos 1981

Leporinus gomesi Garavello, Santos, 1981:188. Type locality: Rio Aripuanã, Mato Grosso, Brazil. Holotype: MZUSP 14436.

Distribution: 321 (Garavello, Santos, 1981).

Remarks: A more detailed description is given by Garavello, 1990.

Leporinus gossei Géry, Planquette, Le Bail, 1991

Leporinus gossei Géry, Planquette, Le Bail, 1991:15, Pl. 3 (fig. 2). Type locality: Crique Balaté, bassin du bas Maroni. [French Guiana]. Holotype: IRSNB 797.

Distribution: 311 (Géry *et al.*, 1991).

Leporinus granti Eigenmann, 1912

Leporinus granti Eigenmann, 1912a:307, Pl. 43 (fig. 3). Type locality: Maripicru creek. [Guyana]. Holotype: FMNH 53383.

Leporinus badueli Puyo, 1948:81 [4], fig. 2. Type locality: Prés da montagne à Baduel dans une petite crique à eua courante de l'île de Cayenne, ou encore dans une crique de la rive gauche de la Mana, près de la ville du même nom. [Creek near the "mountain" at Baduel and creek on the left bank of the Mana River, near the village of Mana, French Guiana]. Syntypes: (2) lost. Species considered as synonym of *Leporinus granti* by Géry *et al.* (1991) and Britski, Birindelli (2013).

Distribution: 310, 311, 321, 320 (Garavello, 1990; Sidlauskas, Vari, 2012; Britski, Birindelli, 2013).

Leporinus guttatus Birindelli, Britski, 2009

Leporinus guttatus Birindelli, Britski, 2009:2, figs. 1–2. Type locality: Brazil, Altamira, rio Curuá, Iriri drainage (rio Xingu basin), upstream from PCH (= small hydroelectric dam) Buriti, 08°46'28"S, 54°57'12"W. Holotype: MZUSP

97100.

Distribution: 322 (Birindelli, Britski, 2009).

Leporinus jamesi Garman, 1929

Leporinus jamesi Garman, in Borodin, 1929:281, Pl. 9. Type locality: Manacapuru. [Brazil]. Holotype: MCZ 20439.

Distribution: 316 (Garavello *et al.*, 2014).

Leporinus jatuncochi Ovchynnyk, 1971

Leporinus jatuncochi Ovchynnyk, 1971:100, figs. 8–9. Type locality: Ecuador, Prov. Napo, Lake Jatun Cocha (approx. 1°0'S, 75°27'W). Holotype: MUSM 5868.

Distribution: 316, 318, 319, 321, 314 (Garavello, Britski, 2003).

Leporinus klausewitzi Géry, 1960

Leporinus klausewitzi Géry, 1960c:279, Pl. 40 (fig. 2). Type locality: Mundurucú, Rio Manacapuru (Amazon basin, near Manaos). [Brazil]. Holotype: SMF 5090.

Distribution: 316, 314 (Géry, 1960c; Sidlauskas, Vari, 2012).

Leporinus lacustris Amaral Campos, 1945

Leporinus lacustris Amaral Campos, 1945c:155, figure. Type locality: Pirassununga (S. Paulo). [Brazil]. Holotype: MZUSP 3458.

Distribution: 343, 344 (Britski, Birindelli, 2008).

Leporinus lebaili Géry, Planquette, 1983

Leporinus lebaili Géry, Planquette, 1983:66, figs. 1, 2, 5a. Type locality: cours moyen du Maroni au Saut Laissé-Dédé. [French Guiana]. Holotype: MHNG 2152.48.

Distribution: 311 (Géry, Planquette, 1983).

Leporinus leschenaulti Valenciennes, 1850

Leporinus leschenaulti Valenciennes, in Cuvier, Valenciennes, 1850:30, Pl. 635. Type locality: envoyé de la Mana. [La Mana river, French Guiana]. Holotype: MNHN 0000–1694.

Distribution: 311 (Garavello, Britski, 2003).

Leporinus maculatus Müller, Troschel, 1844

Leporinus maculatus Müller, Troschel, 1844:86. Type locality: Hab. in fluviis Guianae. [Guyana]. Holotype: ZMB 3546.

Leporinus pellegrinii Steindachner, 1910:269. Type locality: Surinam. Lectotype: NMW 68174:2. [Designated by Géry *et al.* (1988a:704)].

Leporinus alternus Eigenmann, 1912a:307. Type locality: Tukeit, Guyana. Holotype: FMNH 53361.

Leporinus paralternus Fowler, 1914a:237, fig. 4. Type locality: Rupununi River, British Guiana. [Guyana]. Holotype: ANSP 39320.

Distribution: 324, 322, 320, 315, 310, 311 (Garavello, Britski, 2003; Sidlauskas, Vari, 2012).

Remarks: *Leporinus alternus*, *L. paralternus* *L. pellegrinii* were previously considered as possible synonyms of *Leporinus maculatus* (Géry *et al.*, 1988a; Sidlauskas, Vari, 2012). All four nominal species are herein corroborated as synonyms due to the proximity of their type localities and lack of any known morphological differences. Further investigation, especially involving DNA analyses, is needed to confirm this hypothesis.

Leporinus marcgravii Lütken, 1875

Leporinus marcgravii Lütken, 1875c:130,4. Type locality: Rio das Velhas et

- affluentibus. [Brazil]. Syntypes: USNM 44951 (1); ZMB 9191 (1); ZMUC 151 (1), 155–156 (2).
 Distribution: 327 (Garavello, Britski, 2003).
- Leporinus melanopleura*** Günther, 1864
Leporinus melanopleura Günther, 1864:310. Type locality: Bahia. Cipo River. [Type locality restricted to rio Una, Bahia, Brazil, according to Birindelli *et al.* (2013)].
 Lectotype: BMNH 1863:3.27.6. [Designated by Birindelli *et al.* (2013:14)].
 Distribution: 328 (Birindelli *et al.*, 2013).
- Leporinus melanopleurodes*** Birindelli, Britski, Garavello, 2013
Leporinus melanopleurodes Birindelli, Britski, Garavello, 2013:15, figs. 6–8. Type locality: Brazil, Bahia, Nilo Peçanha, rio das Almas, approximately 10 km from Nilo Peçanha on road Corredeiras do rio das Almas, 13° 36'27.8"S, 39° 08'38.8"W. Holotype: MZUSP 100987.
 Distribution: 328 (Birindelli *et al.*, 2013).
- Leporinus melanostictus*** Norman, 1926
Leporinus melanostictus Norman, 1926:94. Type locality: Approuague and Oyapock River, French Guiana. Syntypes: BMNH 1926.3.2.566–567 (2), 1926.3.2.568–569 (2).
 Distribution: 315, 311 (Garavello, Britski, 2003).
- Leporinus microphthalmus*** Garavello, 1989
Leporinus microphthalmus Garavello, 1989:498, fig. 1. Type locality: Rio Araguari, salto de Nova Ponte, Nova Ponte, MG. [Brazil]. Holotype: MZUSP 38535.
 Distribution: 344, 324 (Garavello, 1989; Birindelli, Britski, 2009).
- Leporinus microphysus*** Birindelli, Britski, 2013
Leporinus microphysus Birindelli, Britski, 2013:1130, fig. 1–3. Type locality: Brazil, Amapá, Laranjal do Jari, Rio Iratapuru, tributary of Rio Jari, at Cachoeira São Raimundo, 0° 33'59"S, 52° 34'40"W. Holotype: MZUSP 111001.
 Distribution: 315, 320, 322 (Birindelli, Britski, 2013).
- Leporinus moralesi*** Fowler, 1942
Leporinus muelleri Steindachner, 1876c:105 [57], Pl. 9 (fig. 5). Type locality: Amazonstrom bei Tabatinga und oberhalb dieser Stadt auf Peruanischen Gebiete, José Fernández, R. Ica, Lago Alexo. [Brazil]. Lectotype: NMW 90680.1. [Designated by Birindelli *et al.*, 2013:241]. Preoccupied by *Leporinus muelleri* Günther, 1859,
Leporinus moralesi Fowler, 1942:218, fig. 42. Type locality: Amazonstrom bei Tabatinga und oberhalb dieser Stadt auf Peruanischen Gebiete, José Fernández, R. Ica, Lago Alexo. [Brazil]. Lectotype: NMW 90680.1. [Designated by Birindelli *et al.*, 2013:241]. Replacement for *Leporinus mülleri* Steindachner, 1876.
Leporinus uatumaensis Santos, Jégu, 1996:164, figure. Type locality: Rio Uatumã, Cachoeira do Miriti, abaixo da cachoeira Balbina. [Brazil]. Holotype: INPA 10087. The species was considered junior synonym of *Leporinus moralesi* by Birindelli *et al.* (2013).
 Distribution: 316 (Birindelli *et al.*, 2013).
- Leporinus multimaculatus*** Birindelli, Teixeira, Britski, 2016
Leporinus multimaculatus Birindelli, Teixeira, Britski, 2016:98, figs. 1–3. Type locality: Brazil: Mato Grosso: Barra do Garças: Araguaia-Tocantins basin:

- Córrego Grande, tributary of rio das Mortes, approximately 30 km from the city, Brazil, 15°35'43"S, 52°22'39"W. Holotype: MZUSP 119000.
Distribution: 322, 323, 324 (Birindelli *et al.*, 2016).
- Leporinus niceforoi*** Fowler, 1943
Leporinus niceforoi Fowler, 1943d:227, figs. 7–9. Type locality: Florencia, Colombia. [Río Ortegusa, Florencia, Caquetá Dept., Colombia]. Holotype: ANSP 70491.
Distribution: 316 (Garavello, Britski, 2003).
- Leporinus nigrotaeniatus*** (Jardine, 1841)
Chalceus nigrotaeniatus Jardine, in Schomburgk, 1841:213, Pl. 13 (fig. 2). Type locality: Pedrero on the Rio Negro. No types known.
Leporinus margaritaceus Günther, 1864:309. Type locality: British Guiana. [Guyana]. Holotype: BMNH 2011.4.19.3.
Distribution: 310, 307, 308, 315, 314 (Garavello, Britski, 2003).
- Leporinus nijsseni*** Garavello, 1990
Leporinus nijsseni Garavello, 1990:163, fig. 1. Type locality: Suriname, district Brokopondo, Sara Creek, about 27 km South of Village Dam. Holotype: ZMA 107562.
Distribution: 311, 323 (Garavello, 1990).
- Leporinus octofasciatus*** Steindachner, 1915
Leporinus octofasciatus Steindachner, 1915c:28 [14], Pl. 3 (figs. 1–2). Type locality: Umgebung von Joinville im Staate Santa Catharina, Brasilien. [Brazil]. Syntypes: (2) NMW 68188.
Distribution: 331, 344 (Britski, Garavello, 1978).
- Leporinus octomaculatus*** Britski, Garavello, 1993
Leporinus octomaculatus Britski, Garavello, 1993:33, figs. 3–4. Type locality: Fazenda Sonho Dourado, riacho Formoso, estrada Nobres-Rio Novo, município de Nobres, MT. [Coordinates of type locality given as 14°25'05"S, 55°50'W, Brazil, same as for *Leporinus reticulatus*]. Holotype: MZUSP 44794.
Distribution: 320 (Birindelli, Britski, 2009).
- Leporinus ortomaculatus*** Garavello, 2000
Leporinus ortomaculatus Garavello, 2000:196, 1b. Type locality: Brazil, Roraima, Rio Surumu, Surumu, 3°35'N, 60°25'W. Holotype: MZUSP 5160.
Distribution: 307, 308, 324 (Garavello, 2000).
- Leporinus parae*** Eigenmann, 1907
Leporinus parae Eigenmann, in Eigenmann, Ogle, 1907:8, fig. 3. Type locality: Para, Brazil. Holotype: USNM 34613.
Distribution: 316, 307, 208, 323, 324 (Britski, Birindelli, 2008).
- Leporinus paranensis*** Garavello, Britski, 1987
Leporinus paranensis Garavello, Britski, 1987:156, fig. 1b. Type locality: Marimbondo, Rio Grande, SP. [Brazil]. Holotype: MZUSP 14453.
Distribution: 344 (Garavello, Britski, 1987).
- Leporinus parvulus*** Birindelli, Britski, Lima, 2013
Leporinus parvulus Birindelli, Britski, Lima, 2013:242, fig. 4. Type locality: Brazil, Pará, Itaituba, Rio Tapajós, São Luiz, approximately 4°30'S, 56°59'W. Holotype: MZUSP 110800.
Distribution: 316 (Birindelli *et al.*, 2013).

Leporinus pearsoni Fowler, 1940

Leporinus pearsoni Fowler, 1940b:84, figs. 44–45. Type locality: Boca Chapare, Río Chimore, Cochabamba, Bolivia. Holotype: ANSP 69069.

Distribution: 316 (Garavello, Britski, 2003).

Leporinus piau Fowler, 1941

Leporinus piau Fowler, 1941b:176, fig. 87. Type locality: Rio Salgade, Icó, Ceará. [Brazil]. Holotype: ANSP 69502.

Distribution: 325, 326, 327 (Britski *et al.*, 1984).

Leporinus pitingai Santos, Jégu, 1996

Leporinus pitingai Santos, Jégu, 1996:168, figure. Type locality: Rio Pitinga, Cachoeira 40 Ilhas, abaixo UHE Pitinga. [Brazil]. Holotype: INPA 10126.

Distribution: 315 (Santos, Jégu, 1996).

Leporinus punctatus Garavello, 2000

Leporinus punctatus Garavello, 2000:194, fig. 1a. Type locality: Venezuela, Bolivar, small caño tributary to Río do Mato (left bank), Río Orinoco system, 7°08'N, 65°10'W. Holotype: ANSP 174805.

Distribution: 307, 308 (Garavello, 2000).

Leporinus reticulatus Britski, Garavello, 1993

Leporinus reticulatus Britski, Garavello, 1993:30, figs. 1–2. Type locality: Fazenda Sonho Dourado, riacho Formoso, estrada Nobres-Rio Novo (14° 25'S, 55° 50'W), município de Nobres, MT. [Brazil]. Holotype: MZUSP 44781.

Distribution: 320 (Birindelli, Britski, 2009).

Leporinus santosi Britski, Birindelli, 2013

Leporinus santosi Britski, Birindelli, 2013:26, Fgs. 1–2. Type locality: Brazil, Pará, Parauapebas, igarapé de Pojuca, tributary of rio Itacaiúnas, at Caldeirão, approximately 5° 52'S, 50° 32'W. Holotype: MZUSP 110000.

Distribution: 324 (Britski, Birindelli, 2013).

Leporinus sexstriatus Britski, Garavello, 1980

Leporinus sexstriatus Britski, Garavello, 1980:254, figs. 1–2. Type locality: Rio Papagaio, acima de Utariti, Estado de Mato Grosso. [Brazil]. Holotype: MZUSP 9232.

Distribution: 320 (Birindelli, Britski, 2013).

Leporinus sidlauskasi Britski, Birindelli, 2019

Leporinus sidlauskasi Britski, Birindelli, 2019:184, figs. 1–3. Type locality: Brazil, Mato Grosso, Itaúba, creek tributary of the rio Teles Pires, at the margin of road, 11° 08'42"S, 55° 35'21"W. Holotype: MZUSP 123539.

Distribution: 320 (Britski, Birindelli, 2019).

Leporinus spilopleura Norman, 1926

Leporinus spilopleura Norman, 1926:94. Type locality: system, Fallawatra river at rapids, 5 km SSW of Stondansie Falls. Syntypes: BMNH 1926.3.2.564–565 (2).

Distribution: 311 (Garavello, Britski, 2003).

Leporinus steyermarki Inger, 1956

Leporinus steyermarki Inger, 1956:431, fig. 93. Type locality: Rio Abácapa on west side of Chimantá-tepui. [Venezuela]. Holotype: FMNH 45701.

Distribution: 307, 308 (Inger, 1956).

Leporinus striatus Kner, 1858

Leporinus striatus Kner, 1858a:79. Type locality: [provided in Kner (1859) as Irisanga und Caiçara in Matogrosso. Irisanga refers to the Rio Mogi Guaçu, or a tributary, at the city of Mogi Guaçu, São Paulo state, Brazil; Irisanga is a misspelling of Orissanga, an old train station located at Mogi Guaçu, present locality known as Estiva Gerbi (approximately at 22°16'S, 46°57'W; Vanzolini, 1993). Caicara refers to the Rio Paraguay, at Caiçara, Mato Grosso state (approximately at 16°3'S, 57°43'W), near Cáceres (Britski, Garavelo, 1980). As the type specimens are placed in a single jar and there is no indication of the locality of each specimen, it is impossible to restrict the type locality by selecting a lectotype (Birindelli, Britski, 2013)]. Syntypes: NMW 68048 (7).

Distribution: 344, 343, 319, 318, 316, 307, 302 (Birindelli, Britski, 2013).

Leporinus subniger Fowler, 1943

Leporinus subniger Fowler, 1943d:228, figs. 10–12. Type locality: Florencia, Colombia. [Río Ortegusa, Florencia, Caquetá Dept., Colombia]. Holotype: ANSP 70493.

Distribution: 316 (Garavello, Britski, 2003).

Leporinus taeniatus Lütken, 1875

Leporinus taeniatus Lütken, 1875c:129 [3]. Type locality: Habitat in flumine Rio das Velhas et affluentibus. [Brazil]. Syntypes: MNHN 0000-9591 (2); SMNS 2041 (1), ZMB 9190 (2); ZMUC 132–133 (2), 139 (1), 143 (1), 150 (1).

Distribution: 327 (Britski *et al.*, 1984).

Leporinus taeniofasciatus Britski, 1997

Leporinus taeniofasciatus Britski, 1997:32, fig. 3. Type locality: rio Maranhão, na altura de Cachoeira do Machadinho, divisa dos municípios de Barro Alto e Niquelândia, GO. [Brazil]. Holotype: MZUSP 51073.

Distribution: 324 (Britski, 1997).

Leporinus tepui Birindelli, Britski, Provenzano, 2019

Leporinus tepui Birindelli, Britski, Provenzano, 2019:2, fig. 1. Type locality: Venezuela, Bolívar, río Orinoco basin, Chimantá-tepuí, ca. 5°18'N, 62°10'W. Holotype: FMNH 45711.

Distribution: 308 (Birindelli *et al.*, 2019).

Leporinus tigrinus Borodin, 1929

Leporinus fasciatus tigrinus Borodin, 1929:280. Type locality: Goyaz, Brazil. Syntypes: MCZ 20446 (2).

Distribution: 324, 344, 322, 320 (Garavello, Britski, 2003).

Leporinus torrenticola Birindelli, Teixeira, Britski, 2016

Leporinus torrenticola Birindelli, Teixeira, Britski, 2016:106, figs. 5–8. Type locality: Brazil: Pará: Altamira: Xingu basin: rio Curuá, tributary of rio Iriri, at Castelo dos Sonhos, 8°19'06"S, 55°05'24"W. Holotype: MNRJ 34071.

Distribution: 322 (Birindelli *et al.*, 2016).

Leporinus trimaculatus Garavello, Santos, 1992

Leporinus trimaculatus Garavello, Santos, 1992:111, fig. 1a. Type locality: Aripuanã river, Humboldt, Aripuanã, Mato Grosso. [Brazil]. Holotype: MZUSP 14459.

Distribution: 321 (Garavello, Santos, 1992).

Leporinus tristriatus Birindelli, Britski, 2013

Leporinus tristriatus Birindelli, Britski, 2013:1135, figs. 7–9. Type locality: Brazil,

Mato Grosso, Peixoto de Azevedo, tributary of Rio Peixoto de Azevedo, at Cachoeira da Neblina, Rio Teles Pires basin, 10°23'10"S, 54°18'22"W.

Holotype: MZUSP 96800.

Distribution: 320,322, 324 (Birindelli, Britski, 2013).

Leporinus unitaeniatus Garavello, Santos, 2009

Leporinus unitaeniatus Garavello, Santos, 2009:110, figs. 1, 3. Type locality: Mato Grosso State: Santa Terezinha, Rio Araguaia. [Brazil]. Holotype: MZUSP 14427.

Distribution: 324 (Garavello, Santos, 2009).

Leporinus vanzoi Britski, Garavello, 2005

Leporinus vanzoi Britski, Garavello, 2005:77. Type locality: Rio Tapajós, cachoeira Lombo de Anta, perto de São Luís, Pará (4°26'S, 56°14'W). [Brazil]. Holotype: MZUSP 21833.

Distribution: 316, 320 (Britski, Garavello, 2005).

Leporinus venerei Britski, Birindelli, 2008

Leporinus venerei Britski, Birindelli, 2008:46, fig. 1a. Type locality: Mato Grosso, São Felix, Lake in Fazenda Entre-Rios (approx. 11°35'S, 50°40'W). [Brazil].

Holotype: MZUSP 93124.

Distribution: 324 (Britski, Birindelli, 2008).

Leporinus villasboasorum Burns, Chatfield, Birindelli, Sidlauskas, 2017

Leporinus villasboasorum Burns, Chatfield, Birindelli, Sidlauskas, 2017:8, fig. 2, 6.

Type locality: Brazil, Mato Grosso, Campinópolis, rio Culuene, tributary of rio Xingu, at cofferdam of PCH Paranatinga 2, 13°51'01"S, 53°15'33"W. Holotype: MZUSP 116530.

Distribution: 320, 322 (Burns *et al.*, 2017).

Leporinus y-ophorus Eigenmann, 1922

Leporinus y-ophorus Eigenmann, 1922:233, Pl. 20 (fig. 4). Type locality: Barrigón. [Rio Meta basin, Orinoco basin, Venezuela]. Holotype: CAS 61680.

Distribution: 307 (Géry, 1999).

Species inquirendae (Leporinus)

Anostomus pearsoni Ahl, 1937c:136. Type locality: Laggons, Lake Rogoagua. [Bolivia]. Syntypes: (2) CAS 61846.

Remarks: Replacement for *Laemolyta fasciata* Pearson, 1924, secondarily preoccupied by *Anostomus fasciatus* (Spix, Agassiz, 1829) when both were in *Anostomus* (see Garavello, Britski, 2003:72; Mautari, Menezes, 2006:30).

Charax leucometopon Zuiew, 1789:275, Pl. 5. Type locality: not given. [According to Zuiew (1789) the specimen used as the basis for the species description belonged to the collection of [Carl Gustaf] Dhalberg, a Swedish military who worked and lived in Suriname, and used to bring zoological and botanical specimens as presents on his many visits to Sweden (Papavero, 1971). Therefore, sometimes the type locality is referred to as Suriname]. Holotype: whereabouts unknown. [Specimens from Dahlberg's collection were sent to the Zoological Museum of the Russian Academy of Sciences Zoological Institute - RAS (Holthuis, 1959; Brandt (1864) and were also donated to King Adolf Fredrik of Sweden (Holthuis, 1959; (Kullander, pers. comm.). So far, no specimens from Dahlberg's collections

were located in institutional collections at Stockholm or Upsala (Kullander, pers. comm.), so the specimen on which Zuiew based the description of *C. leucometopon* could be in St. Petersburg]. Information of this nominal species was provided by C. Lucena (pers. comm.).

Remarks: The figure provided by Zuiew (1789) shows a specimen possessing a terminal mouth and body shape consistent with species of *Leporinus*. He described eight strong teeth on premaxillary, six (likely eight) on the dentary, 13 dorsal-fin rays (in total), 16 pectoral-fin rays, 10 pelvic-fin rays and 10 anal-fin rays. The coloration was described as body marked here and there with inconspicuous blotches (or spots). This description is not completely consistent with any species inhabiting Suriname in particular, and could best fit *Leporinus friderici* or *Leporinus fasciatus*.

Laemolyta fasciata Pearson, 1924:29, Pl. 10 (fig. 1). Type locality: Laggons, Lake Rogoagua [Bolivia]. Syntypes: (2) CAS 61846 (1).

Remarks: The only known specimen of *Laemolyta fasciata* is a juvenile (15.7 mm SL) in very poorly condition, making it difficult to determine its validity. It may belong to *Leporinus* due to the coloration described in the original description of the species (Mautari, Menezes, 2006:30).

Leporinus bimaculatus Castelnau, 1855:58, Pl. 29 (fig. 1). Type locality: Rio Vermelho de Goyaz [Lectotype locality: Rio Vermelho de Goyaz, Brazil]. Lectotype: MNHN A9797. [Designated by Britski *et al.*, (2012:470)].

Remarks: The species is possibly junior synonym of *Leporinus friderici* (Britski *et al.*, 2012).

Leporinus multifasciatus Cope, 1878:690. Type locality: Peruvian Amazon. Lectotype: ANSP 21448. [Designated by Fowler (1906:329, fig. 19). Treated as holotype by Böhlke (1984:19)].

Remarks: The only known specimens of *Leporinus multifasciatus* (*i.e.*, the lectotype and two paralectotypes, ANSP 21449) are juveniles (40–52 mm SL) in very poor condition, making it difficult to determine the validity of this species name. Géry (1977:159) considered as a probable synonym of *Leporinus fasciatus* (Bloch, 1794).

Pithecocharax ucayalensis Fowler, 1906:320, fig. 16. Type locality: Peruvian Amazon or Ucayale River. Holotype: ANSP 21997.

Remarks: Status of species based on Garavello, Britski (2003:81) who also suggested it as a possible synonym of a *Leporinus* species.

MEGALEPORINUS Ramirez, Birindelli, Galetti, 2017

Megaleporinus Ramirez, Birindelli, Galetti, 2017:312. Type species: *Curimatus obtusidens* Valenciennes, 1837. Type by original designation. Gender: Masculine.

Megaleporinus brinco (Birindelli, Britski, Garavello, 2013)

Leporinus brinco Birindelli, Britski, Garavello, 2013:16, figs. 10–12. Type locality: Brazil, Bahia, Itajibá, rio Gongogi, tributary of rio de Contas, 14°21'16.5"S 39°46'23.9"W. Holotype: MZUSP 105166.

Distribution: 328 (Birindelli *et al.*, 2013).

Megaleporinus conirostris (Steindachner, 1875)

Leporinus conirostris Steindachner, 1875b:233 [23], Pl. 4. Type locality: Rio Parahyba at Mendez, Juiz de Fora, Palmeira; Rio Doce; Rio Mucuri; Paraíba Valley, Brazil. Syntypes: (many) MCZ 20371–73 (4, 19, 33), 20407 (8), 20411–13 (1, 2, 7), 25690 (1), 31599 (1); MNHN 1913–0131 (1); NMW 68199 (1), 68395–97 (2, 1, 1), 68399–400 (2, 2), 68693–98 (2, 1, 2, 2, 1); USNM 120275 (2), ZMUC 970 (1).

Distribution: 329, 328 (Ramirez *et al.*, 2017).

Megaleporinus elongatus (Valenciennes, 1850)

Leporinus elongatus Valenciennes, in Cuvier, Valenciennes, 1850:37. Type locality: Rio San-Francisco du Brésil. Dans la Plata à Buéno-Ayers. [Type locality (Rio São Francisco) considered an error by Britski *et al.* (2012), and the type specimen considered to be possibly collected in the rio Jequitinhonha, Brazil]. Lectotype: MNHN 8624. [Designated by Géry *et al.* (1987:396)].

Leporinus crassilabris Borodin, 1929:274, Pl. 4. Type locality: Rio Jequitinhonha, Brazil. Holotype: MCZ 20423.

Leporinus crassilabris breviceps Borodin, 1929:275. Type locality: Rio Arassuahy. [Rio Araçuaí, tributary of Rio Jequitinhonha, Brazil]. Holotype: MCZ 20419.

Distribution: 328 (Britski *et al.*, 2012; Ramirez *et al.*, 2017).

Megaleporinus gaiero Birindelli, Britski, Ramirez, 2020

Megaleporinus gaiero Birindelli, Britski, Ramirez, 2020:3, figs. 1–4, 9a. Type locality: Brazil, Bahia, Itagibá, Rio Gongogi, tributary of Rio de Contas, 14°21'16.5"S, 39°46'23.9"W. Holotype: MZUSP 112112.

Distribution: 328 (Birindelli *et al.*, 2020).

Megaleporinus garmani (Borodin, 1929)

Leporinus garmani Borodin, 1929:272, Pl. 3. Type locality: Araçuaí, Brazil. Holotype: MCZ 20420.

Distribution: 328 (Ramirez *et al.*, 2016).

Remarks: The species was transferred to *Hypomasticus* by Borodin (1929:272), and Sidlauskas, Vari (2008:74), and to *Megaleporinus* by Ramirez *et al.*, 2017).

Megaleporinus macrocephalus (Garavello, Britski, 1988)

Leporinus macrocephalus Garavello, Britski, 1988:68, fig. 1A. Type locality: Rio Cuiabá, Barão de Melgaço, MT. [Brazil]. Holotype: MZUSP 36586.

Distribution: 343, 344 (Ramirez *et al.*, 2017).

Remarks: The species was introduced in distinct basins including the upper Paraná and Tocantins river basins.

Megaleporinus muyscorum (Steindachner, 1900)

Leporinus muyscorum Steindachner, 1900:206. Type locality: Rio Lebrija, einem östlichen nebenflusse des mittleren Rio Magdalena, bei Santander, Columbien. [Colombia]. Holotype: ZSM (old collection) destroyed in WWII.

Distribution: 301, 302 (Garavello, 1990; Ramirez *et al.*, 2017).

Megaleporinus obtusidens (Valenciennes, 1837)

Curimatus obtusidens Valenciennes, 1837:no p., Pl. 8 (fig. 2). Type locality: L'Amérique Méridionale. Holotype: MNHN 0000–1693.

Leporinus silvestrii Boulenger, 1902a:284. Type locality: Rio Coxipo, Matto Grosso. [Brazil]. Syntypes: (several) BMNH 1902.2.10.32 (1), MSNG 14866 (3).

Salmo 11-radiatus Larrañaga, 1923:387. Type locality: Communis in hoc flumine de la Plata. No types known. Appeared as *Salmo boops vel 11-radiatus* and *Salmo 11-radiatus* in Devincenzi, 1925:312, 322, respectively and treated as a synonym of *Leporinus obtusidens* [= *Megaleporinus obtusidens*] Valenciennes, 1847. Considered species *inquirenda* in *Leporinus* by Garavello, Britski, 2003:79).

Salmo boops Larrañaga, 1923:377. Type locality: Uruguay. No types known. Appeared as *Salmo boops vel 11-radiatus* and *Salmo boops* in Devincenzi, 1925:312, 322, respectively and treated as a synonym of *Leporinus obtusidens* [= *Megaleporinus obtusidens*] Valenciennes, 1847. Considered species *inquirenda* in *Leporinus* by Garavello, Britski, 2003:79).

Leporinus aguapeiensis Amaral Campos, 1945c:154, figure. Type locality: Rio Aguapeí, Estado de São Paulo. [Brazil]. Holotype: MZUSP 3040.

Distribution: 325, 327, 344, 343, 345, 332, 334 (Britski *et al.*, 2012; Ramirez *et al.*, 2016).

Megaleporinus piavussu (Britski, Birindelli, Garavello, 2012)

Leporinus piavussu Britski, Birindelli, Garavello, 2012:462, fig. 12–13. Type locality: Rio Mogi Gauçu, at Cachoeira de Emas (21° 55'35"S, 47° 21'59"W), Pirassununga, São Paulo. [Brazil]. Holotype: MZUSP 109999.

Distribution: 344 (Britski *et al.*, 2012; Ramirez *et al.*, 2017).

Megaleporinus reinhardti (Lütken, 1875)

Leporinus reinhardti Lütken, 1875c:129 [3]. Type locality: Hab. In flumine Rio d. Velhas nec non in lacu Lagoa Santa. [Brazil]. Syntypes: MNHN 0000–9590 (1); NMW 68196 (1); SMNS 2040 (1); ZMB 9189 (1); ZMUC 123 (1), 126 (1), 128 (1), 131 (1).

Distribution: 327 (Ramirez *et al.*, 2017).

Megaleporinus trifasciatus (Steindachner, 1876)

Leporinus trifasciatus Steindachner, 1876c:112 [64]. Type locality: Teffé. [Brazil]. Holotype: NMW.

Leporinus wolfei Fowler, 1940a:261, fig. 58. Type locality: Ucayali river basin, Boca Chica, Peru. Holotype: ANSP 68674. Synonymy proposed by Ramirez *et al.*, 2017:312.

Distribution: 316, 318, 321, 319, 324, 314, 323 (Ramirez *et al.*, 2017).

Species inquirenda (Megaleporinus)

Leporinus pachyurus Valenciennes, in Cuvier, Valenciennes, 1850:36. Type locality: l'Amazone. No types known. [The two syntypes were not located in the collections of MNHN and are therefore considered lost (Britski *et al.*, 2012)].

Remarks: The drawing provided by Castelnau (1855: plate 30) shows a large specimen (over 400 mm SL), that possesses three dentary teeth, features that are consistent with species of *Megaleporinus*. However, there is not enough information to unequivocally identify the species (Britski *et al.*, 2012).

PETULANOS Sidlauskas, Vari, 2008

Petulanos Sidlauskas, Vari, 2008:167. Type species: *Anostomus plicatus* Eigenmann,

1912. Type by original designation. Gender: Masculine.

Petulanos intermedius (Winterbottom, 1980)

Anostomus intermedius Winterbottom, 1980:14, fig. 11. Type locality: Brazil, Amazon River system, upper Xingu River, below the cataracts near Suya-Missu or Paranajuba. Holotype: SMF 10651.

Distribution: 321, 320, 322 (Sidlauskas, Santos, 2005).

Petulanos plicatus (Eigenmann, 1912)

Anostomus plicatus Eigenmann, 1912a:296, Pl. 41 (fig. 3). Type locality: Crab Falls, Essequibo River, Guyana. Holotype: FMNH 53393.

Distribution: 310, 311 (Winterbottom, 1980).

Petulanos spiloclistron (Winterbottom, 1974)

Anostomus spiloclistron Winterbottom, 1974:154, figs. 1, 5a–b, 6. Type locality: Suriname, Nickerie river system, Fallawatra river at rapids, 5 km SSW of Stondansie Falls. Holotype: ZMA 112685.

Distribution: 311 (Winterbottom, 1980).

PSEUDANOS Winterbottom, 1980

Pseudanos Winterbottom, 1980:24. Type species: *Schizodon trimaculatus* Kner, 1858. Type by original designation. Gender: Masculine.

Pseudanos gracilis (Kner, 1858)

Schizodon gracilis Kner, 1858a:78. Type locality: [provided in Kner (1859) as Rio Guapore, Brazil (see Birindelli *et al.*, 2012)]. NMW 57119.

Distribution: 321, 316, 314, 315 (Birindelli *et al.*, 2012).

Pseudanos trimaculatus (Kner, 1858)

Schizodon trimaculatus Kner, 1858a:78. Type locality: [provided in Kner (1859) as Brazil (see Birindelli *et al.*, 2012)]. Holotype: NMW 62692.

Pseudanos irinae Winterbottom, 1980:27, figs. 7c, 21, 45b. Type locality: Venezuela. Orinoco River system, Orinoco River at bifurcation with Casiquiare River, Laja Tama Tama. Holotype: SU 58809.

Distribution: 307, 314, 316, 318, 321, 319, 310, 315 (Birindelli *et al.*, 2012).

Pseudanos varii Birindelli, Lima, Britski, 2012

Pseudanos varii Birindelli, Lima, Britski, 2012:56, figs. 1–2, 3a–b. Type locality: Brazil, Amazonas, Manaus, Igarapé Sirinau, tributary of Rio Cuieiras (tributary of Rio Negro), ca. 2°42'S, 60°20'W. Holotype: MZUSP 109800.

Distribution: 307, 308, 314 (Birindelli *et al.*, 2012).

Pseudanos winterbottomi Sidlauskas, Santos, 2005

Pseudanos winterbottomi Sidlauskas, Santos, 2005:110, figs. 1, 2B, 3–4, 5B. Type locality: Venezuela, Amazonas, Río Ventuari, pool behind beach on south side of river, approximately 0.5h (approximately 12 km) above mouth of Río Orinoco, Laguna Pavon (4°04'N, 66°56'W). Holotype: MBUCV-V-32210.

Distribution: 307, 308, 320 (Birindelli *et al.*, 2012).

RHYTIODUS Kner, 1858

Rhytiodus Kner, 1858a:78. Type species: *Rhytiodus microlepis* Kner, 1858. Type by subsequent designation by Eigenmann, 1910:425. Gender: Masculine.

Garmanina Fowler, 1906:326. Type species: *Rhytiodus argenteofuscus* Kner, 1858. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Rhytiodus*.

Rhytiodus argenteofuscus Kner, 1858

Rhytiodus argenteofuscus Kner, 1858a:79. Type locality: [provided in Kner (1859) as Rio Negro, Brazil]. Holotype: NMW 56879.

Schizodon sagittarius Cope, 1878:689. Type locality: Peruvian Amazon. Holotype: ANSP 21474. [Fowler (1906:326); Böhlke (1984:19)].

Rhytiodus argenteofuscus var. *unifasciatus* Steindachner, 1915c:24 [10]. Type locality: Mündung des Rio Negro. Holotype: not found at NMW.

Distribution: 316 (Géry, 1987).

Rhytiodus elongatus (Steindachner, 1908)

Anostomus elongatus Steindachner, 1908a:62. Type locality: Rio Purús. [Brazil]. Holotype: NMW 62612.

Distribution: 316 (Géry, 1987).

Rhytiodus lauzannei Géry, 1987

Rhytiodus lauzannei Géry, 1987:367, figs. 1–2, 4 (upper). Type locality: Zone d'inondation du rio Tijamuchi près de Trinidad, bassin du rio Mamoré, Bolivie. [Bolivia]. Holotype: MNHN 1987-1063.

Distribution: 318 (Géry, 1987).

Remarks: The status of this species awaits to be confirmed as it may be a junior synonym of *Rhytiodus microlepis* (Sidlauskas, Vari, 2008).

Rhytiodus microlepis Kner, 1858

Rhytiodus microlepis Kner, 1858a:79. Type locality: [provided in Kner (1859) as Manaus, Brazil]. Syntypes: NMW 56881 (2).

Distribution: 316 (Géry, 1987).

SARTOR Myers, Carvalho, 1959

Sartor Myers, Carvalho, 1959:148. Type species: *Sartor respectus* Myers, Carvalho, 1959. Type by original designation. Gender: Masculine.

Sartor elongatus Santos, Jégu, 1987

Sartor elongatus Santos, Jégu, 1987:183, fig. 1. Type locality: Rio Trombetas, Cachoeira Porteira, foz do rio Mapuera, estado do Pará, Brasil (1°6'S e 57°W), em área de pedral, no começo do embasamento do Planalto das Guianas. [Brazil]. Holotype: INPA 1167.

Distribution: 316 (Santos, Jégu, 1987).

Sartor respectus Myers, Carvalho, 1959

Sartor respectus Myers, Carvalho, 1959:149, figs. 1–3. Type locality: Jacaré, Rio Kuluene (Culuene), about 40 kilometers above its mouth (its junction with the Rio Tamitotoala, which forms the Rio Xingu). [Jacaré lies at approximately 12 degrees South Latitude, in the State of Mato Grosso, Brazil. It is (or was) an

encampment of the Fundação Brasil Central, and is shown on plate 117 of the Times Atlas of the World, vol. 5, 1957, although not present on earlier maps. The Culuene drains the northern slopes of the Serra do Roncador, which forms part of the Planalto of Mato Grosso]. Holotype: MNRJ 11355.

Distribution: 322 (Santos, Jégu, 1987).

Sartor tucuruense Santos, Jégu, 1987

Sartor tucuruense Santos, Jégu, 1987:184, fig. 3. Type locality: Rio Tocantins, cidade de Tucuruí, estado do Pará, Brasil (3° 45'S, 49° 12'W), cerca de 2 km abaixo da barragem de Tucuruí. [Brazil]. Holotype: INPA 1165.

Distribution: 324 (Santos, Jégu, 1987).

SCHIZODON Agassiz, 1829

Schizodon Agassiz, in Spix, Agassiz, 1829:58, 66. Type species: *Schizodon fasciatus* Spix, Agassiz, 1829. Type by monotypy. Gender: Masculine. Additional comments: Author of genus name is Agassiz according to Kottelat (1988), author as Spix, Agassiz in (Garavello, Britski, 2003).

Lahilliella Eigenmann, Kennedy, in Eigenmann, 1903:144. Type species: *Schizodon nasutus* Kner, 1858. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Anostomus*.

Schizodon altoparanae Garavello, Britski, 1990

Schizodon altoparanae Garavello, Britski, 1990:158, fig. 1A. Type locality: Rio Paraná, em frente a Jupiá, Mato Grosso do Sul, Brazil. Holotype: MZUSP 41102.

Distribution: 344 (Garavello, Britski, 1990).

Schizodon australis Garavello, 1994

Schizodon australis Garavello, 1994:182, fig. 1a. Type locality: Rio Uruguai, no Porto de Santo Izidro, município de São Nicolau, estado do Rio Grande do Sul, Brasil. Holotype: MCP 12931.

Distribution: 332 (Garavello, 1994).

Schizodon borellii (Boulenger, 1900)

Anostomus borellii Boulenger, 1900a:2. Type locality: Carandasiño. [Carandazinho is a municipality near Corumba, Rio Paraguay, Mato Grosso, Brazil]. Holotype: at BMNH. [Garavello, Britski, 2003:80].

Distribution: 343 (Garavello, Britski, 2019).

Schizodon dissimilis (Garman, 1890)

Anostomus dissimilis Garman, 1890a:22. Type locality: Rio Puty. [Rio Poti, Piauí, Brazil]. Lectotype: MCZ 19383. [Designated by Garavello, Britski, 2019:6].

Distribution: 323, 325, 326 (Garavello, Britski, 2019:6).

Schizodon fasciatus Spix, Agassiz, 1829

Schizodon fasciatus Spix, Agassiz, 1829:66, Pl. 36. Type locality: Habitat in Brasiliae fluviis. [Brazil]. Holotype: MHNN 781.

Piabuca schizodon Valenciennes, in Cuvier, Valenciennes, 1850:112. Type locality: Nous les tenons de l'Amazone; de l'Esséquiibo... golfe du Mexique, près de la lagune de Maracaïbo. Syntypes: MNHN A-8643 (1, dry) Maracaïbo, A-9839 (2) Amazon, A-9840 (1) Essequibo; RMNH (1).

Schizodon fasciatum corti Schultz, 1944:269, figs. 30–31a. Type locality: Río Palmar near Totuma, about 100 km southwest of Maracaibo. [Venezuela]. Holotype: USNM 121300.

Distribution: 310, 311, 315, 314, 316, 321, 318, 319, 320, 322, 324, 323 (Garavello, Britski, 2003).

Remarks: Author of species name is Agassiz according to Kottelat (1988), author as Spix, Agassiz in (Garavello, Britski, 2003).

Schizodon intermedius Garavello, Britski, 1990

Schizodon intermedius Garavello, Britski, 1990:159, fig. 1B. Type locality: Ribeirão afluyente do Rio Itaqueri, tributário do Rio Piracicaba, Águas de São Pedro, SP. [Brazil]. Holotype: MZUSP 41123.

Distribution: 344 (Garavello, Britski, 1990).

Schizodon isognathus Kner, 1858

Schizodon isognathus Kner, 1858a:78. Type locality: [provided in Kner (1859) as Rio Cuiaba, Brazil]. Lectotype: NMW 58855. [Designated by Sidlauskas *et al.*, (2007:717)].

Distribution: 343 (Sidlauskas, Garavello, Jellen, 2007).

Schizodon jacuiensis Bergmann, 1988

Schizodon jacuiensis Bergmann, 1988:15, figs. 1, 4, 6, 7, 9. Type locality: Rio Guaíba, Ilha Balceira, Porto Alegre. [Brazil]. Holotype: MCZ 5889.

Distribution: 334 (Garavello, Britski, 2003).

Remarks: This species is possibly junior synonym of *Schizodon platae*, according to DNA analysis Ramirez *et al.*, 2020.

Schizodon knerii (Steindachner, 1875)

Anostomus knerii Steindachner, 1875b:211 [1], Pl. 1. Type locality: Rio grande do Sul, Rio San Francisco. [Brazil]. Lectotype: NMW 62840:2. [Designated by Bergmann, 1988:18. Catalog number of specimen corrected by Sidlauskas *et al.*, 2007].

Distribution: 327 (Garavello, Britski, 2003).

Schizodon nasutus Kner, 1858

Schizodon nasutus Kner, 1858a:78. Type locality: [provided in Kner (1859) as Irisanga]. Syntypes: NMW 16223 (2).

Distribution: 344, 332, 333 (Garavello, Britski, 2003).

Schizodon platae (Garman, 1890)

Anostomus platae Garman, 1890a:23. Type locality: Rosario, La Plata. [Argentina]. Holotype: MCZ 833 [not 1833 or 2833].

Distribution: 345 (Garavello, Britski, 2003).

Schizodon rostratus (Borodin, 1931)

Anostomus rostratus Borodin, 1931:50, Pl. 4 (fig. 2). Type locality: Rio Puty, Brazil. [Rio Poti, possibly at Teresina, Piauí, Brazil]. Holotype: MCZ 19380.

Distribution: 325 (Garavello, Britski, 2003).

Schizodon scotorhabdotus Sidlauskas, Garavello, Jellen, 2007

Schizodon scotorhabdotus Sidlauskas, Garavello, Jellen, 2007:712, figs. 1–3. Type locality: Venezuela, Guárico, Río Aguaro N of Cabruta on cattle ranch on E side of Río Guarico, 7°50'28"N, 66°30'28"W. Holotype: MBUCV-V-32950.

Distribution: 307, 308 (Sidlauskas *et al.*, 2007).

Schizodon succinctus Burmeister, 1861

Schizodon succinctus Burmeister, 1861:535. Type locality: Rio Paraná, bei Rozario. [Argentina]. Syntypes: whereabouts unknown.

Distribution: 345 (Garavello, Britski, 2003).

Schizodon trivittatus Garavello, Ramirez, Oliveira, Britski, Birindelli, Galetti, 2021

Schizodon trivittatus Garavello, Ramirez, Oliveira, Britski, Birindelli, Galetti, 2021:18, fig. 8. Type locality: Brazil, Mato Grosso, São José do Couto, Culuene River, a tributary of Xingu River, 13° 49'01"S 53° 14'45"W. Holotype: MZUSP 115362.

Distribution: 361, 320, 322, 323 (Garavello *et al.*, 2021).

Schizodon vittatus (Valenciennes, 1850)

Piabuca vittata Valenciennes, in Cuvier, Valenciennes, 1850:115. Type locality: l' Amazone. [type locality restricted to the Araguaia river Brazil.]. Holotype: MNHN A-1067 (dry).

Distribution: 324 (Garavello *et al.*, 2021).

Remarks: Species redescribed by Garavello *et al.*, 2021.

Species inquirenda (Schizodon)

Leporinus platycephalus Meinken, 1935:196, fig. 3. Type locality: Corrientes/Argentinien. Syntypes: ZMB 21915 (2) [Zarske, 2021a]. .

Remarks: The species is possibly a junior synonym of *Schizodon borellii* (Garavello, Britski, 2003).

SYNAPTOLAEMUS Myers, Fernández-Yépez, 1950

Synaptolaemus Myers, Fernández-Yépez, in Myers, 1950:190. Type species: *Synaptolaemus cingulatus* Myers, Fernández-Yépez, 1950. Type by original designation. Gender: Masculine.

Synaptolaemus latofasciatus (Steindachner, 1910)

Leporinus latofasciatus Steindachner, 1910:268. Type locality: ...aus dem Orinoco [Venezuela]. Holotype: NMW 68187.

Synaptolaemus cingulatus Myers, Fernández-Yépez, in Myers, 1950:190. Type locality: Laja Supira, upper Rio Orinoco, Venezuela. Holotype: SU 16122.

Distribution: 308, 316, 320, 322, 321, 314 (Britski *et al.*, 2011).

BRYCONIDAE Eigenmann, 1912

Bryconinae Eigenmann, 1912a:370. Type genus: *Brycon* Müller, Troschel, 1844.

Salminini Cockerell, 1915:156. Type genus: *Salminus* Agassiz, 1829.

Chalcinopsidi Fowler, 1958:10. Type genus: *Chalcinopsis* Kner, 1863.

Henochilidi Fowler, 1958:8. Type genus: *Henochilus* Garman, 1890.

BRYCON Müller, Troschel, 1844

FCT Lima

- Brycon** Müller, Troschel, 1844:90. Type species: *Brycon falcatus* Müller, Troschel, 1844. Type by subsequent designation by Eigenmann, 1910:430. Gender: Masculine.
- Chalcinopsis** Kner, 1863:226. Type species: *Chalcinopsis striatulus* Kner, 1863. Type by subsequent designation by Eigenmann, 1910:430. Gender: Feminine.
- Megalobrycon** Günther, 1869:423. Type species: *Megalobrycon cephalus* Günther, 1869. Type by monotypy. Gender: Masculine.
- Catabasis** Eigenmann, Norris, 1900:358. Type species: *Catabasis acuminatus* Eigenmann, Norris, 1900. Type by original designation. Gender: Feminine.
- Bryconodon** Eigenmann, 1903:146. Type species: *Brycon orthotaenia* Günther, 1864. Type by original designation. Gender: Masculine.
- Othonophanes** Eigenmann, 1903:145. Type species: *Brycon labiatus* Steindachner, 1879. Type by original designation. Gender: Masculine.
- Holobrycon** Eigenmann, 1909a:33. Type species: *Brycon pesu* Müller, Troschel, 1845. Type by original designation. Gender: Masculine.
- Triurobrycon** Eigenmann, 1909a:33. Type species: *Brycon lundii* Lütken, 1875. Type by original designation. Gender: Masculine.

Brycon alburnus (Günther, 1860)

Chalceus alburnus Günther, 1860a:419. Type locality: Western Andes of Ecuador. Syntypes: BMNH 1860.6.16.167 (1), 1860.6.16.180 (1), 1860.6.16.201–202 (2), 1860.6.16.204 (1).

Brycon acutus Böhlke, 1958:67, Pl. 4 (fig. 1). Type locality: Near the mouth of Rio Quinindé at 60 m. [Ecuador, Esmeraldas, c. 0°20'16"N, 79°28'4"W]. Holotype: SU 49757.

Distribution: 301 (Howes, 1982).

Remarks: See Howes (1982) and Prado *et al.* (2015:162–163) for comments on the species.

Brycon amazonicus (Agassiz, 1829)

Chalceus amazonicus Agassiz, in Spix, Agassiz, 1829:68, Pl. 35. Type locality: Habitat in fluvio Amazonum [Neotype locality: Brazil, Pará, rio Trombetas, igarapé Caxipacoré, ca. 0°34'S, 56°45'W.] Neotype: INPA 3415. [Designated by Lima (2017:122)].

Chalceus carpophaga Valenciennes, in Cuvier, Valenciennes, 1850:252. Type locality: l'Esséquibo. [Guyana]. Lectotype: MNHN A-9832. [Designated by Gery, Mahnert (1992:811)].

Megalobrycon cephalus Günther, 1869:423, fig. 1. Type locality: Upper Amazon. [See Lima (2017:122) for comments on the type locality]. Syntypes: BMNH 1869.5.21.1 (1), 1869.5.21.2 (1). Synonymy proposed in Lima (2017:122–123).

Brycon capito Cope, 1872:261. Type locality: Ambyiacu. [Peru, Loreto, Rio Ampyiacu, trib. Rio Amazonas, ca. 3°21'S, 71°41'W]. Holotype: ANSP 8058. Synonymy proposed in Lima (2017:123).

Brycon longiceps Steindachner, 1879b:150. Type locality: Orinoco bei Ciudad Bolívar. [Venezuela, Estado Bolívar, approximately 8°8'N, 63°34'W]. Syntypes: (several) NMW 62944 (3).

Brycon siebenthalae Eigenmann, 1912a:372, Pl. 54 (fig. 3). Type locality: Mud Creek, Aruka River. [Guyana, approximately 8°13'N, 59°44'W]. Holotype: FMNH 53353.

Brycon pellegrini Holly, 1929:208. Type locality: Manaos. [Manaus, Brazil]. Holotype: NMW 8963.

Brycon siebenthalae iquitensis Nakashima, 1941:69, figure. Type locality: Cercanías del Puerto de Iquitos. [Peru]. Holotype: whereabouts unknown. [Holotype lost (see Lima, 2017:124)].

Distribution: 307, 308, 309, 314, 316, 318, 322 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species. Author of species name is Agassiz according to Kottelat (1988); followed by Lima (2017); author as Spix, Agassiz in Lima, 2003:175.

Brycon argenteus Meek, Hildebrand, 1913

Brycon argenteus Meek, Hildebrand, 1913:84. Type locality: Río Aruza, Aruza, Panama. [Panama, Darién, Río Aruza, trib. Río Tuyra, approximately 8°22'N, 77°56'W]. Holotype: FMNH 7588.

Distribution: 210, 301 (Hildebrand, 1938; Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2012:148–149) for an account on the species.

Brycon atrocaudatus (Kner, 1863)

Chalceus atrocaudatus Kner, 1863:227, “fig. 14” (unpublished). Type locality: Westabhänge der Andes in Staate Ecuador. Holotype: ZSM 143 [old collection] destroyed in WWII.

Brycon scapularis Fowler, 1911b:502, fig. 3. Type locality: Affluent of the Chimbo River near Bucay, Province of Guayas, Ecuador. [Approximately 2°12'S, 79°10'W]. Holotype: ANSP 39105.

Brycon ecuadoriensis Eigenmann, Henn, in Eigenmann, 1918a:687. Type locality: Río Barranca Alta from Naranjito, Ecuador. [Ecuador, Depto. Guayas, approximately 2°10'S, 79°28'W]. Holotype: CAS 39436.

Distribution: 301 (Böhlke, 1958a; Howes, 1982).

Remarks: See Böhlke (1958a), Howes (1982), and Prado *et al.* (2015:164–165) for comments on the species.

Brycon behreae Hildebrand, 1938

Brycon behreae Hildebrand, 1938:278, fig. 5. Type locality: Rio Chiriquí del Tire, above Caldera, Pacific slope, western Panama. [Panama, Chiriqui, approximately 8°40'N, 81°21'W]. Holotype: CAS 5582.

Distribution: 206 (Hildebrand, 1938; Bussing, 1998).

Remarks: See Bussing (1998:92–94) for an account on the species.

Brycon chagrensis (Kner, 1863)

Chalcinopsis chagrensis Kner, 1863:226, “fig. 13” (unpublished). Type locality: Chagres an der Nordseite von Panama. [Panama, Río Chagres (canal zone)]. Syntypes: NMW 22106 (1), 62661 (2); ZSM no. 3, 16, 47, 129, 234 [old collection] (orig. 5?) destroyed in WWII.

Distribution: 209 (Hildebrand, 1938).

Brycon coquenani Steindachner, 1915

Brycon coquenani Steindachner, 1915c:37 [23], Pl. 1 (figs. 1–2). Type locality:

Coquenanflusse in Venezuela. [Venezuela, Estado Bolívar, Río Kukenan, upper Río Caroní basin, approximately 5° 12'N, 60° 46'W (Lima, 2017:35–36)].
Lectotype: NMW 62702. [Designated by Lima (2017:35)].

Distribution: 308 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon costaricensis Angulo, Gracian-Negrete, 2013

Brycon costaricensis Angulo, Gracian-Negrete, 2013: 258, fig. 2. Type locality: Costa Rica, Atlantic slope, Heredia, Sarapiquí drainage, La Virgem de Sarapiquí, Río Sarapiquí, at the Tirimbina Biological Reserve, 149 m, 10° 24'56.84"N, 84° 07'18.70"W. Holotype: UCR 2936-01.

Distribution: 205 (Angulo, Gracian-Negrete, 2013).

Brycon coxeyi Fowler, 1943

Brycon coxeyi Fowler, 1943a:3, fig. 2. Type locality: Hacienda las mascotas, mouth of Río Pastaza, basin of the Río Marañon, Ecuador. [Type locality corrected by Lima (2017:26) for “Ecuador, Provincia Tungurahua, Hacienda Mascota, Río Pastaza, near mouth of Río Topo, 1° 25'S, 78° 11'W”]. Holotype: ANSP 70156.

Distribution: 313 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon dentex Günther, 1860

Brycon dentex Günther, 1860b:240 [8]. Type locality: Freshwaters of Esmeraldas. [Ecuador, Depto. Esmeraldas]. Syntypes: BMNH 1860.6.16.156–159 (4), SMNS 762 (1).

Distribution: 301 (Böhlke, 1958a; Howes, 1982).

Remarks: See Böhlke (1958a), Howes (1982), and Prado *et al.* (2015:166–167) for comments on the species.

Brycon dulcis Lima, Vieira, 2017

Brycon dulcis Lima, Vieira, in Lima, 2017: 53, figs. 30–31. Type locality: Brazil, Minas Gerais, Marliéria, Lago Dom Helvécio, Rio Doce State Park, Rio Doce system, 19° 46'S, 42° 36'W. Holotype: MZUSP 58911.

Distribution: 328 (Lima, 2017).

Brycon falcatus Müller, Troschel, 1844

Brycon falcatus Müller, Troschel, 1844:90. Type locality: In Guyana et Surinam. Syntypes: BMNH 1969.12.12.1–3 (3) Guyana; ZMB 3601–03 (2, 1, 1).

Chalceus labrosus Jardine, in Schomburgk, 1841:212, Pl. 13 (fig. 1). Type locality: River Paduiri. [River Paduari, Rio Negro basin, Amazonas, Brazil]. No types known. Description corresponds to that of *Brycon falcatus* Müller, Troschel, 1844. Considered as nomen oblitum and as such does not have precedence over *Brycon falcatus* (Lima, 2017:155).

Brycon schomburgkii Müller, Troschel, 1844:91. Type locality: Guiana. [Guyana]. Holotype: ZMB 3604. Considered a junior synonym of *Brycon falcatus* Müller, Troschel, 1844 by Eigenmann (1912a:372) and therefore, acting as first reviser.

Brycon brevicauda Günther, 1864:335. Type locality: Rio Jocintins, River Capin. [Brazil, Pará, rio Tocantins and Rio Capim (cf. Lima, 2017:156)]. Syntypes: BMNH 1849.11.8.48–49 (2), 1842.4.20.13 (right half skin).

Brycon stuebelii Steindachner, 1882c:176. Type locality: Amazonenstrom. [Type-locality specified to “Rio Amazonas (Iquitos)” by Steindachner (1882a:13–14)].

Holotype: MTD F 380.

Brycon bicolor Pellegrin, 1909a:12. Type locality: Orénoque. [See Lima (2017:157) for comments on the type locality]. Syntypes: MNHN 1887-0746 to 0748 (3). Synonymy proposed in Lima (2017:157).

Brycon matrinchao Fowler, 1941b:192, fig. 102. Type locality: Rio Parnahyba, Therezina, Piauhy. [Type locality very probably incorrect; see Lima (2017:157)]. Holotype: ANSP 69619.

Distribution: 307, 308, 310, 311, 314, 315, 316, 319, 320, 321, 322, 323, 324 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon ferox Steindachner, 1877

Brycon ferox Steindachner, 1877:583 [25], Pl. 4 (figs. 1–1a). Type locality: Rio Mucuri. [Minas Gerais or Bahia state, Brazil]. Lectotype: NMW 62930. [Designated by Lima (2017:62)].

Distribution: 328 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon fowleri Dahl, 1955

Brycon fowleri Dahl, 1955:19. Type locality: Chibogadó, Colombia. [Colombia, Depto. Córdoba, upper Río Sinú, approximately 8°0'N, 76°13'W]. Holotype: whereabouts unknown.

Distribution: 301, 302 (Maldonado-Ocampo *et al.*, 2005).

Remarks: See Maldonado-Ocampo *et al.* (2005:79–80) for an account on the species.

Brycon gouldingi Lima, 2004

Brycon gouldingi Lima, 2004:280, figs. 1–2. Type locality: Brazil; Pará; Parauapebas, Igarapé da Boa Vista, tributary of rio Itacaiúnas, Serra dos Carajás ca. 5°52'S, 50°29'W. Holotype: MZUSP 61400.

Distribution: 324 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon guatemalensis Regan, 1908

Brycon guatemalensis Regan, 1908a:168. Type locality: Guatemala, Río Chisoy, Río Usumancita, Río Motagua and Lake Yzabal. Syntypes: (6) BMNH 1864.1.26.226–229 (4), 1865.4.29.40 (1), 1869.1.26.387 (1), ?1869.2.23.8 (1).

Distribution: 201, 202 (Angulo, Gracian-Negrete, 2013; Miller *et al.*, 2005).

Remarks: See Miller *et al.* (2005:157) and Angulo, Gracian-Negrete (2013) for an account on the species.

Brycon henni Eigenmann, 1913

Brycon henni Eigenmann, 1913:26. Type locality: Caldas. [Colombia, Depto. Valle del Cauca, Río Cauca basin (precise locality uncertain: Maldonado-Ocampo *et al.*, 2012:150)]. Holotype: FMNH 56384.

Distribution: 301, 302 (Maldonado-Ocampo *et al.*, 2005, Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2005:80–81; 2012:150–151) for accounts on the species.

Brycon hilarii (Valenciennes, 1850)

Chalceus hilarii Valenciennes, in Cuvier, Valenciennes, 1850:246. Type locality: Río San Francisco. [Type locality very probably incorrect; see Lima (2017:105)].

Lectotype: MNHN A-8616-81-25-71.

Megalobrycon erythropterum Cope, 1872:263, Pl. 10 (fig. 2). Type locality: Ambyiacu. [Peru, Loreto, Rio Ampyiacu, trib. Rio Amazonas, ca. 3°21'S, 71°41'W]. Holotype: ANSP (not found). [Böhlke (1984:45; Lima (2017:105)]. Synonymy proposed in Lima (2017:106).

Brycon microlepis Perugia, 1897:149 [3]. Type locality: Puerto 14 de Mayo, dipartimento di Bahia Negra, nel Chaco boreale. [Paraguay]. Holotype: MSNG 36916.

Distribution: 313, 316, 317, 342, 343, 345 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon howesi Lima, 2017

Brycon howesi Lima, 2017: 47, figs. 28–29. Type locality: Brazil, Minas Gerais, Araçuaí, rio Jequitinhonha, confluence with rio Araçuaí, below village of Itira, 16°45'S, 42°0'W. Holotype: MZUSP 103075.

Distribution: 328 (Lima, 2017).

Brycon insignis Steindachner, 1877

Brycon insignis Steindachner, 1877:587 [29], Pl. 4 (figs. 2–2a). Type locality: Rio Parahyba bei Campos und Mendez. [Type locality restricted by Lima (2017:42) to “Rio Parahyba”, *i.e.*, Brazil, Rio de Janeiro, rio Paraíba do Sul at Campos or Mendes]. Lectotype: NMW 62925: 2. [Designated by Lima (2017:41)].

Catabasis acuminatus Eigenmann, Norris, 1900:358. Type locality: Rio Tieté. [Type locality probably incorrect; see Lima (2017:42)]. Holotype: CAS 11894.

Megalobrycon piabanha Miranda-Ribeiro, 1902:5. Type locality: Cataguazes, rio Pomba. [Brazil, Minas Gerais, Rio Paraíba do Sul basin]. Holotype: MNRJ (apparently lost).

Distribution: 329, 352 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon medemi Dahl, 1960

Brycon medemi Dahl, 1960b:461, figure. Type locality: Quebrada La Noche, upper Atrato. [Colombia, Depto. Chocó]. Holotype: ICN-MHN 41. [Mojica, Agudelo-Zamora, 2018:8].

Distribution: 301 (Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2012:152–153) for an account on the species.

Brycon meeki Eigenmann, Hildebrand, 1918

Brycon meeki Eigenmann, Hildebrand, in Eigenmann, 1918a:688. Type locality: Originally “Ríos San Juan, Dagua, Patia, western Colombia”, restricted by Eigenmann (1922:322) to “Barbacoas, Colombia”. [Colombia, Depto. Nariño, Río Telembi, approximately 1°40'30"N, 78°8'30"W]. Lectotype: CAS 13467. [Designated by Eigenmann (1922:322)].

Brycon juanensis Rendahl, 1941:10, figs. 2–3. Type locality: Río San Juan, Cabeceras. [Colombia, Depto. Chocó]. Holotype: NRM 10688.

Brycon juradoensis Fowler, 1944:232, figs. 5–6. Type locality: Río Juradó, Chocó Province, Colombia. [Colombia, Depto. Chocó, approximately 7°10'N, 77°46'W]. Holotype: ANSP 71426.

Brycon tovari Dahl, 1960b:465, figure. Type locality: Mouth of Río Sandó, tributary

to the Baudó. [Colombia, Depto. Chocó, approximately 5°3'7"N, 77°3'9"W].
Holotype: ICN-MHN 110. [(Mojica, Agudelo-Zamora 2018:10)].

Distribution: 301 (Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2012:154–155) for an account on the species.

Brycon melanopterus (Cope, 1872)

Megalobrycon melanopterus Cope, 1872:262, Pl. 13 (fig. 1). Type locality: Ambyiacu. [Peru, Loreto, Rio Ampyiacu, trib. Rio Amazonas, ca. 3°21'S, 71°41'W].
Lectotype: ANSP 8035. [Designated by Fowler (1907:447). Treated as holotype by Böhlke (1984:51), see Lima, 2017 (:140)].

Distribution: 316, 318, 321, 313, 314 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon moorei Steindachner, 1878

Brycon moorei Steindachner, 1878:91. Type locality: Cienega (...) Magdalenen-Strom. [Colombia, Depto. Magdalena, approximately 10°58'N, 74°15'W].
Syntypes: at NMW (yet to be located).

Othonophanes bolivarensis Dahl, 1943:216 [2], figure. Type locality: Pool communicating with Río Batatal (also called Río Uré) tributary to Río San Jorge, Magdalena system, Altitude approximately 800 m. Municipal of Ayapel, department of Bolivar, Republic of Colombia. [Colombia, Depto. Cordoba, ca. 7°57'S, 75°31'W]. Holotype: at ZMUL (yet to be located).

Distribution: 302 (Maldonado-Ocampo *et al.*, 2005).

Remarks: See Maldonado-Ocampo *et al.* (2005:82) for an account on the species.

Brycon nattereri Günther, 1864

Brycon nattereri Günther, 1864:334. Type locality: Irisanga. [Brazil, São Paulo, Oriçanga (now Estiva Gerbi), rio Grande basin, 22°16'S, 46°57'W (cf. Lima, 2017:81)]. Holotype: NMW 16396.

Brycon reinhardtii Lütken, 1875c:134 [8]. Type locality: Flumine Rio das Velhas. [Brazil, Minas Gerais, rio São Francisco basin]. Syntypes: BMNH 1878.1.10.36 (1); MNHN 0000-9589 (1); NMW 59761 (2); SMNS 2049 (1); USNM 44955 (1); ZMB 9194 (1); ZMUC 216 (1), 222 (1), 224 (1), 225 (1).

Distribution: 327, 324, 344 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon obscurus Hildebrand, 1938

Brycon obscurus Hildebrand, 1938:283, fig. 6. Type locality: Creek in El Valle, Pacific slope, Panama. [Panama, Coclé, approximately 8°40'N, 80°7'W]. Holotype: USNM 106512.

Distribution: 210 (Hildebrand, 1938).

Brycon oligolepis Regan, 1913

Brycon oligolepis Regan, 1913b:462. Type locality: Río Condoto and western Ecuador. ["Río Condoto" at Colombia, Depto. Chocó]. Syntypes: (9) BMNH 1913.10.1.8–9 (2).

Distribution: 301, 302 (Maldonado-Ocampo *et al.*, 2005, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2005:83; 2012:156–157), and Prado *et al.* (2015: 168–169) for accounts on the species.

Brycon opalinus (Cuvier, 1819)

Chalceus opalinus Cuvier, 1819:351, Pl. 26 (fig. 1). Type locality: Brésil [Brazil]. [Restricted by Eigenmann (1921: 294–295) to “Rio de Janeiro”; see comments by Lima (2017:73)]. Holotype: MNHN A-8613 (dry).

Brycon bahiensis Günther, 1864:334. Type locality: Bahia. [See Lima (2017:73) for comments on the type locality]. Holotype: BMNH 1862.11.23.26.

Distribution: 329, 328 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon orbignyanus (Valenciennes, 1850)

Chalceus orbignyanus Valenciennes, in Cuvier, Valenciennes, 1850:249. Type locality: Buénos-Ayres, la Plata. [Argentina, Buenos Aires, Rio de La Plata]. Lectotype: MNHN A-9835 (larger specimen). [Designated by Gery, Mahnert (1992:811)].

Chalceus rodopterus Valenciennes, in Cuvier, Valenciennes, 1850:249. Type locality: Buénos-Ayres. [Argentina]. Syntypes: MNHN A-9834 (2, poor condition).

Brycon lineatus Steindachner, 1866:19. Type locality: La-Plata Strom. [Argentina]. Holotype: NMW 62943. [Holotype apparently lost (see Lima, 2017:96)].

Brycon travassosi Amaral Campos, 1950:141, fig. 1. Type locality: Rio Bodoquena, Est. Mato Grosso. [Type locality probably incorrect; see Lima (2017:96–97)]. Holotype: MZUSP 3811.

Distribution: 344, 345, 332, 333 (Lima, 2017).

Remarks: Géry, Mahnert (1992: 807) acted as first revisers when placing *Chalceus rodopterus* Valenciennes as junior synonym of *Brycon orbignyanus* (Valenciennes, 1850). See Lima (2017) for a full account on the species.

Brycon orthotaenia Günther, 1864

Brycon orthotaenia Günther, 1864:335. Type locality: River Cipo. [Brazil, Minas Gerais, Rio Cipó (a tributary of Rio das Velhas)]. Holotype: BMNH 1861.5.16,71 (half skin).

Brycon lundii Lütken, 1875c:135 [9]. Type locality: Fluminen Rio das Velhas. [Brazil, Minas Gerais, Rio das Velhas]. Syntypes: ZMUC 227 Lagoa Santa, ZMUC 228–229 (skulls), ZMUC 232 Rio das Velhas.

Distribution: 327 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon pesu Müller, Troschel, 1845

Brycon pesu Müller, Troschel, 1845:16, 30, Pl. 7 (fig. 1). Type locality: Guiana. [Presumably Essequibo River]. Holotype: ZMB 3605.

Distribution: 311, 310, 308, 315, 323, 324, 322, 320, 321, 319, 307 (Steindachner, 1917; Planquette *et al.*, 1996; Géry, Zarske, 2004; Lima *et al.*, 2013; Arrington, Winemiller, 2003).

Remarks: A species complex (Arruda *et al.*, 2019; A.M. Zanata, F.C.T. Lima, unpubl. data).

Brycon petrosus Meek, Hildebrand, 1913

Brycon petrosus Meek, Hildebrand, 1913:84. Type locality: Upper Chagres. [Panama, Río Chagres (canal zone)]. Holotype: FMNH 7589.

Distribution: 209 (Hildebrand, 1938).

Brycon polylepis Mosco Morales, 1988

Brycon polylepis Mosco Morales, 1988:9, figs. 2, 3, 5. Type locality: Río Yasa, afluente del Río Negro, estación biomédica Kasma, Sierra de Perijá, zona de reserva de

los indios Parirías, Estado Zulia, Venezuela. [Approximately 9° 57'S, 72° 43'W].

Holotype: MBLUZ 1273.

Distribution: 303, 307, 308, 316, 318, 324 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon posadae Fowler, 1945

Brycon posadae Fowler, 1945c:103, fig. 5. Type locality: Ricaurte, on the Río Guebo, tributary of the Río Mira, Nariño, at 3000 feet elevation, Pacific Slope of Colombia. [Colombia, Depto. Nariño, approximately 1° 12'30"N, 77° 59'30"W].

Holotype: ANSP 71695.

Distribution: 301 (Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2012:158), and Prado *et al.* (2015:170–171) for an account on the species.

Brycon rubricauda Steindachner, 1879

Brycon rubricauda Steindachner, 1879c:195. Type locality: der Cauca, der grösste Nebenfluss des Magdalenan-Stromes. [Colombia, Depto. Antioquia]. Holotype: at NMW. [Holotype still need to be identified at NMW collection].

Chalceus rodopterus Posada, 1909:303. Type locality: Medellín, Colombia. Holotype: whereabouts unknown. [probably never preserved]. Homonym of *Chalceus rodopterus* Valenciennes.

Distribution: 302 (Maldonado-Ocampo *et al.*, 2005).

Remarks: See Maldonado-Ocampo *et al.* (2005:83–84) for an account on the species.

Brycon sinuensis Dahl, 1955

Brycon moorei sinuensis Dahl, 1955:18, figure. Type locality: Lorica, Cereté, Betancí, Tierra Alta and the mouth of Nain. [Colombia, Depto. Córdoba, Río Sinu basin]. Syntypes: lost.

Distribution: 302 (Dahl, 1971).

Remarks: See Dahl (1971:124) for comments on the species (as *Brycon moorei sinuensis*).

Brycon stolzmanni Steindachner, 1879

Brycon stolzmanni Steindachner, 1879b:152. Type locality: Chota. [Peru, Cajamarca, Río Marañón basin, ca. 6° 33'S, 78° 39'W]. Lectotype: NMW 62731: 1. [Designated by Lima (2017:21)].

Distribution: 312 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon striatulus (Kner, 1863)

Chalcinopsis striatulus Kner, 1863:226, “fig. 12” (unpublished). Type locality: Panama. [Panama, Río Chagres (canal zone)]. Syntypes: ZSM no. 15, 117, 200, 204, 206 [old collection] (5) destroyed in WWII.

Distribution: 210, 301 (Hildebrand, 1938; Maldonado-Ocampo *et al.*, 2012).

Remarks: See Maldonado-Ocampo *et al.* (2012:159–160) for an account on the species.

Brycon unicolor Mosco Morales, 1988

Brycon unicolor Mosco Morales, 1988:16, fig.4, 5. Type locality: Lagunas de piscicultura del Centro de Aprendizaje Agropecuaria Don Bosco, Carrasquero, Estado Zulia, Venezuela. Holotype: MBLUZ 1254.

Distribution: 303 (Mosco Morales, 1988).

Brycon vermelha Lima, Castro, 2000

Brycon vermelha Lima, Castro, 2000:156, figs. 1–2. Type locality: Brazil. Minas Gerais, município de Carlos Chagas, rio Mucuri, approximately 9 km W of village of Presidente Pena, along a dirt road on Fazenda Gavião (17°42'S, 40°58'W). Holotype: MZUSP 53303.

Distribution: 328 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Brycon vonoi Lima, 2017

Brycon vonoi Lima, 2017:63, figs. 36–37. Type locality: Brazil, Minas Gerais, Taiobeiras, rio Pardo, fazenda Tabatinga, ca. 15°43'S, 42°14'W. Holotype: MZUSP 58297.

Distribution: 328 (Lima, 2017).

Brycon whitei Myers, Weitzman, 1960

Brycon whitei Myers, Weitzman, 1960:99, fig. 1. Type locality: Vicinity of Los Micos, and the north end of the Cordillera Macarena, at approximately 3°20'N, 73°56'W. This locality is the headwaters of the Río Guaviare (Río Orinoco system) just east of the Cordillera Oriental in Colombia. Holotype: SU 48818.

Distribution: 307 (Lima, 2017).

Remarks: See Lima (2017) for a full account on the species.

Species inquirendae (Brycon)

Brycon labiatus Steindachner, 1879c:195. Type locality: der Cauca, der grösste Nebenfluss des Magdalenan-Stromes. [Colombia, Depto. Antioquia]. Holotype: NMW. [Holotype still need to be identified in NMW collection].

Chalceus devillei Castelnau, 1855:69, Pl. 36 (fig. 2). Type locality: Bahia. [See Lima (2017:52–53) for comments on the type locality]. Holotype: MNHN 0000–4517.

Remarks: Taxonomic status of species discussed by Lima (2017:52).

CHILOBRYCON Géry, de Rham, 1981

FCP Dagosta

Chilobrycon Géry, de Rham, 1981:7. Type species: *Chilobrycon deuterodon* Géry, de Rham, 1981. Type by original designation. Gender: Masculine.

Chilobrycon deuterodon Géry, de Rham, 1981

Chilobrycon deuterodon Géry, de Rham, 1981:8, figs. 2–6. Type locality: Nord du Pérou, Département Tumbès, Rio Trapazol, petite rivière affluente du Rio Tumbès et réduite à quelques mares à la fin de la saison sèche. [Peru]. Holotype: MHNG 2045.13.

Distribution: 301 (Géry, Rham, 1981).

Remarks: Name appeared first in title on page 7.

HENOCHILUS Garman, 1890

FCT Lima

Henochilus Garman, 1890e:49. Type species: *Henochilus wheatlandii* Garman, 1890. Type by monotypy. Gender: Masculine.

Henochilus wheatlandii Garman, 1890

Henochilus wheatlandii Garman, 1890e:49 [1], Pl. 1. Type locality: Santa Clara on the Rio Mucury. [The type locality is probably incorrect; the species was never collected again in the rio Mucuri, but instead, in the rio Santo Antônio, an upper tributary of the rio Doce, Minas Gerais state, Brazil (Vieira *et al.*, 2000; Castro *et al.*, 2004)]. Holotype: MCZ 21109.

Distribution: 328 (Castro *et al.*, 2004).

SALMINUS Agassiz, 1829

FCT Lima

Salminus Agassiz, in Spix, Agassiz, 1829:76. Type species: *Hydrocyon brevidens* Cuvier, 1819. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Hydrocyon*.

Salminus affinis Steindachner, 1880

Salminus affinis Steindachner, 1880:80 [28], Pl. 7 (figs. 2–2a). Type locality: der Cauca, der grösste Nebenfluss des Magdalenan–Stromes. [Colombia, Depto. Antioquia]. Lectotype: NMW 78042.2. [Designated by Géry, Lauzanne (1990:122)].

Distribution: 302 (Lima, 2022:16).

Remarks: Species redescribed by Lima, 2022.

Salminus brasiliensis (Cuvier, 1816)

Hydrocynus brasiliensis Cuvier, 1816:167. Type locality: Brésil. [Brazil, presumably from the rio Paraguay basin (Géry, Lauzanne, 1990:114)]. Holotype: MNHN A-8555 (dry).

Hydrocyon brevidens Cuvier, 1819:364, Pl. 27 (fig. 1). Type locality: Brésil. [Brazil]. Holotype: MNHN A-8555 (dry). [Based on the same holotype of *Hydrocyon brasiliensis*, and consequently, its objective synonym (Géry, Lauzanne, 1990:114)].

Salminus cuvieri Valenciennes, in Cuvier, Valenciennes, 1850:56. Type locality: Brésil. [Brazil]. Holotype: MNHN A-8555 (dry). [Based on the same holotype of *Hydrocyon brasiliensis*, and consequently, its objective synonym (Géry, Lauzanne, 1990:115)].

Salminus maxillosus Valenciennes, in Cuvier, Valenciennes, 1850:62. Type locality: l'Amazone. [Type locality certainly incorrect, holotype presumably collected at the rio Paraguai basin in Brazil]. Holotype: MNHN A-8550 (dry).

Salminus orbignyanus Valenciennes, in Cuvier, Valenciennes, 1850:65. Type locality: les Missions jusqu'à Buénos Ayres, Argentina; dans tous les affluents du Parana ou de l'Uruguay. Holotype: MNHN A-8551.

Salmo 27-radiatus Larrañaga, 1923:388. Type locality: Uruguay. No types known. Appeared as *Salmo auratus vel 27-radiatus* and *Salmo 27-radiatus* in Devincenzi, 1925:313, 322, respectively and treated as synonym of *Salminus maxillosus* Valenciennes (= *S. brasiliensis* Cuvier). As a synonym of *Salminus brasiliensis* in Lima *et al.* 2003:156); Litz, Koerber, 2014:12; Mirande, Koerber, 2015b:20; Koerber *et al.*, 2017:32.

Salmo auratus Larrañaga, 1923:378. Type locality: Uruguay. No types known. Devincenzi (1925:322) considered it as a synonym of *Salminus maxillosus*

Valenciennes; Included as a synonym of *Salminus brasiliensis* (Cuvier) in Lima *et al.*, 2003:156.

Distribution: 342, 342, 345, 332, 333, 334, 344, 318, 312 (Géry, Lauzanne, 1990; Lima, 2006).

Salminus franciscanus Lima, Britski, 2007

Salminus franciscanus Lima, Britski, 2007:238, figs. 1–3. Type locality: Brazil, Minas Gerais, Pedro Leopoldo, stream tributary to rio das Velhas, at Igreja Quebrada, near Jaguara (19°27'S, 43°57'W). Holotype: MZUSP 89625.

Distribution: 327 (Lima, Britski, 2007).

Salminus hilarii Valenciennes, 1850

Salminus hilarii Valenciennes, in Cuvier, Valenciennes, 1850:64. Type locality: Rio San Francisco. [Brazil, presumably Minas Gerais]. Lectotype: MNHN A-8658. [Designated by Géry, Lauzanne (1990:117)].

Brycon erythrura Fowler, 1941b:191, fig. 101. Type locality: Rio Jaguaribe, Orós, Ceará. [Brazil, Ceará, approximately 6°14'S, 38°55'W]. Holotype: ANSP 69608.

Distribution: 344, 327, 326 (Lima, 2022:28).

Remarks: Species redescribed by Lima, 2022.

Salminus iquitensis (Nakashima, 1941)

Holobrycon iquitensis Nakashima, 1941:72, figure. Type locality: Cercanías del Puerto de Iquitos. [Neotype locality: Peru, Loreto, Mazan, río Napo, upstream mouth of río Mazan, near Mazan, 3°29'10"S, 73°6'24"W]. Neotype: ANSP 178157 [Designated by Lima, 2022:41].

Distribution: 307, 308, 315, 316, 318 (Lima, 2022).

Remarks: Species revalidated and redescribed by Lima, 2022.

Salminus santosi Lima, 2022

Salminus santosi Lima, 2022:44, figs 15–16. Type locality: Brazil, Pará, Parauapebas, igarapé do Cinzento, rio Itacaiúnas, ca. 5°51'S, 50°32'W. Holotype: MZUSP 34916.

Distribution: 324 (Lima, 2022).

CHALCEIDAE Fowler, 1958

AM Zanata

Chalceidi Fowler, 1958:9. Type genus: *Chalceus* Cuvier, 1818.

Plethodectidi Fowler, 1958:9. Type genus: *Plethodectes* Cope, 1870.

CHALCEUS Cuvier, 1818

Chalceus Cuvier, 1818:454. Type species: *Chalceus macrolepidotus* Cuvier, 1818. Type by monotypy. Gender: Masculine.

Plethodectes Cope, 1870:563. Type species: *Plethodectes erythrurus* Cope, 1870. Type by monotypy. Gender: Masculine.

Pellegrinina Fowler, 1907:442. Type species: *Pellegrinina heterolepis* Fowler, 1907. Type by original designation. Gender: Feminine.

Chalceus epakros Zanata, Toledo-Piza, 2004

Chalceus epakros Zanata, Toledo-Piza, 2004:124, figs. 18–19. Type locality: Brazil, Pará, Rio Tapajós, São Luís, above Itaituba (4°25'S, 56°10'W). Holotype: MZUSP 33392.

Distribution: 307, 308, 310, 314, 315, 316, 320, 321, 322, 323, 324 (Zanata, Toledo-Piza, 2004).

Chalceus erythrurus (Cope, 1870)

Plethodectes erythrurus Cope, 1870:563, figures. Type locality: Pebas, Ecuador. [currently, Peru]. Holotype: ANSP 8032. [specimen in poor condition (Zanata, Toledo-Piza, 2004). [Fowler, 1907:441; Böhlke, 1984:55].

Pellegrinina heterolepis Fowler, 1907:442, fig. 39. Type locality: Probably some part of West Africa. [Type locality is wrong, based on incorrect information of original label in Géry (1977:18)]. Holotype: ANSP 8150 (caudal damaged). Status of species discussed by Zanata, Toledo-Piza (2004).

Chalceus macrolepidotus iquitensis Nakashima, 1941:76, figure. Type locality: Cercanías del puerto de Iquitos. [Peru]. Syntypes: ?MHNJP [= MUSM] (lost).

Distribution: 314, 316 (Zanata, Toledo-Piza, 2004).

Chalceus guaporensis Zanata, Toledo-Piza, 2004

Chalceus guaporensis Zanata, Toledo-Piza, 2004:128, fig. 22–23. Type locality: Bolívia, Beni, Río Itenez at mouth of Río Baures, 6 km SW of Costa Marques; 12°31'S, 64°19'W. Holotype: UMMZ 239851.

Distribution: 319 (Zanata, Toledo-Piza, 2004).

Chalceus macrolepidotus Cuvier, 1818

Chalceus macrolepidotus Cuvier, 1818:454, Pl. 21 (fig. 1). Type locality: Brésil. [Brazil]. Holotype: MNHN 2634.

Chalceus ararapeera Valenciennes, in Cuvier, Valenciennes, 1850:244. Type locality: Essequibo. [Guyana]. Syntypes: MNHN A-9830 (2). Status of species discussed by Zanata, Toledo-Piza (2004).

Creagrutus pellegrini Puyo, 1943:143 [3], fig. 2. Type locality: Um des spécimens a été recueilli dans le haut Itany, l'autre dans le cours supérieur du Marouni. [French Guiana]. Syntypes: (lost). Status of species discussed by Zanata, Toledo-Piza (2004).

Distribution: 307, 308, 310, 314, 319 (Zanata, Toledo-Piza, 2004).

Remarks: The correct year of publication is 1818 and not 1816 (Lima *et al.*, 2003) or 1817 (Zanata, Toledo-Piza, 2004).

Chalceus spilogyros Zanata, Toledo-Piza, 2004

Chalceus spilogyros Zanata, Toledo-Piza, 2004:121, figs. 15–17. Type locality: Brazil, Pará, Igarapé Jacaré, right margin of Rio Tapajós, near Boim. (3°0'S, 55°15'W). Holotype: MZUSP 20314.

Distribution: 316 (Zanata, Toledo-Piza, 2004).



FIGURE 3 | Map of Central America with area delimitation based on Abell *et al.*, 2008 (Freshwater ecoregions of the world): 201 Chiapas–Fonseca; 202 Quintana Roo–Motagua; 203 Mosquitia; 204 Estero Real–Tempisque; 205 San Juan (Nicaragua and Costa Rica); 206 Chiriqui; 207 Isthmus Caribbean; 208 Santa Maria; 209 Chagres; 210 Rio Tuira; 211 Cuba–Cayman Islands; 212 Bahama Archipelago; 213 Jamaica; 214 Hispaniola; 215 Puerto Rico–Virgin Islands; 216 Windward and Leeward Islands; 217 Cocos Island (Costa Rica). Not all the regions indicated on the map have records of characiforms.

CHARACIDAE Latreille, 1825

Characini Latreille, 1825:119. Type genus: *Charax* Scopoli, 1777. Additional comments:

In some works, family name also appeared as Characinidae based on *Characinus*. Myers (1949) extensively discussed this complex issue.

Stewardiana Gill, 1858 (correct spelling Stevardiinae):62. Type genus: *Stewardia* Gill, 1858. Additional comments: Gill (1858) spelled Stewardiana. Eigenmann (1917:27) corrected the name to Stevardiinae. Fowler (1943e:317) misspelled Stevardinae.

Tetragonopterinae Gill, 1858:54. Type genus: *Tetragonopterus* Cuvier, 1816.

Acestrorhamphinae Eigenmann, 1907:154. Type genus: *Acestrorhamphus* Eigenmann, Kennedy, 1903.

Stethaprioninae Eigenmann, 1907:771. Type genus: *Stethaprion* Cope, 1870.

Aphyocharacinae Eigenmann, 1909b (correct spelling Aphyocharacinae):254. Type genus: *Aphyocharax* Günther, 1868. Additional comments: Eigenmann (1909b) misspelled Aphyocharacinae. Eigenmann (1912a:311) corrected the name to Aphyocharacinae.

Diapominae Eigenmann, 1909b:254. Type genus: *Diapoma* Cope, 1894.

Gymnocharacininae Eigenmann, 1909b (correct spelling Gymnocharacinae):254. Type



FIGURE 4 | Map of southern North America with area delimitation based on Abell *et al.*'s 2008 (Freshwater ecoregions of the world): 101 Alaskan Coastal; 102 Upper Yukon; 103 Alaska and Canada Pacific Coastal; 104 Upper Mackenzie; 105 Lower Mackenzie; 106 Central Arctic Coastal; 107 Upper Saskatchewan; 108 Middle Saskatchewan; 109 English–Winnipeg Lakes; 110 Southern Hudson Bay; 111 Western Hudson Bay; 112 Canadian Arctic Archipelago; 113 Eastern Hudson Bay–Ungava; 114 Gulf of St. Lawrence Coastal Drainages; 115 Canadian Atlantic Islands; 116 Laurentian Great Lakes; 117 St. Lawrence; 118 Northeast US and Southeast Canada Atlantic Drainages; 119 Scotia–Fundy; 120 Columbia Glaciated; 121 Columbia Unglaciated; 122 Upper Snake; 123 Oregon and Northern California Coastal; 124 Oregon Lakes; 125 Sacramento–San Joaquin; 126 Lahontan; 127 Bonneville; 128 Death Valley; 129 Vegas–Virgin; 130 Colorado; 131 Gila; 132 Upper Rio Grande–Bravo; 133 Pecos; 134 Rio Conchos; 135 Lower Rio Grande–Bravo; 136 Cuatro Ciénegas; 137 Rio Salado; 138 Rio San Juan (Mexico); 139 West Texas Gulf; 140 East Texas Gulf; 141 Sabine–Galveston; 142 Upper Missouri; 143 Middle Missouri; 144 US Southern Plains; 145 Ouachita Highlands; 146 Central Prairie; 147 Ozark Highlands; 148 Upper Mississippi; 149 Lower Mississippi; 150 Teays–Old Ohio; 151 Cumberland; 152 Tennessee; 153 Mobile Bay; 154 West Florida Gulf; 155 Apalachicola; 156 Florida Peninsula; 157 Appalachian Piedmont; 158 Chesapeake Bay; 159 Southern California Coastal–Baja California; 160 Sonora; 161 Guzman–Samalayuca; 162 Sinaloa; 163 Mayran–Viesca; 164 Rio Santiago; 165 Lerma–Chapala; 166 Llanos El Salado; 167 Panuco; 168 Ameca–Manantlan; 169 Rio Balsas; 170 Sierra Madre del Sur; 171 Papaloapan; 172 Coatzacoalcos; 173 Grijalva–Usumacinta; 174 Upper Usumacinta; 175 Yucatan; 176 Bermuda. Not all the regions indicated on the map have records of characiforms.

- genus: *Gymnocharacinus* Steindachner, 1903. Additional comments: Eigenmann (1909b) misspelled Gymnocharacininae. Eigenmann (1917:38) corrected the name to Gymnocharacinae.
- Stichanodontinae Eigenmann, 1910 (correct spelling Stichonodontinae):441. Type genus: *Stichonodon* Eigenmann, 1903. Additional comments: Eigenmann (1910) misspelled Stichanodon. Eigenmann (1917:50) corrected the name to Stichonodontinae.
- Rhoadsinae Fowler, 1911b (correct spelling Rhoadsiinae):497. Type genus: *Rhoadsia* Fowler, 1911. Additional comments: Fowler (1911b) misspelled Rhoadsinae. Eigenmann, Myers (1929:457), corrected the name to Rhoadsiinae.
- Brachycalcininae Eigenmann, 1912a (correct spelling Brachychalcininae):97. Type genus: *Brachychalcinus* Boulenger, 1892. Additional comments: Eigenmann (1912a) misspelled Brachycalcininae. Fowler (1958:10) corrected the name in proposing the tribe Brachychalcinidi.
- Pterobryconinae Eigenmann, 1913:3. Type genus: *Pterobrycon* Eigenmann, 1913.
- Glandulocaudinae Eigenmann, 1914c:32. Type genus: *Glandulocauda* Eigenmann, 1911. Additional comments: Glandulocaudinae appeared first in the text on page 33, but the title of page 32 is clear in proposing the new name.
- Hysteronotinae Eigenmann, 1914c:35. Type genus: *Hysteronotus* Eigenmann, 1911.
- Pseudocorynopominae Eigenmann, 1914c:34. Type genus: *Pseudocorynopoma* Perugia, 1891.
- Cheirodontinae Eigenmann, 1915:2. Type genus: *Cheirodon* Girard, 1855. Additional comments: Eigenmann (1915) proposed the subfamily Cheirodontinae to allocate these fishes apart from Aphyocharacinae. As noted by Malabarba (1998), if Cheirodontinae is considered a synonym of the Aphyocharacinae, it has no priority over the latter and Aphyocharacinae should be the correct name used to refer to the group Eigenmann created that includes both nominal genera *Cheirodon* and *Aphyocharax*.
- Cynopotamini Cockerell, 1915:156. Type genus: *Cynopotamus* Valenciennes, 1850.
- Corynopominae Eigenmann, 1927:395. Type genus: *Corynopoma* Gill, 1858.
- Oligosarginae Fowler, 1932 (correct spelling Oligosarcinae):361. Type genus: *Oligosarcus* Günther, 1864. Additional comments: Fowler (1975:117) remarked that the name Oligosarginae is undefined. Géry (2013) used as Oligosarcinae.
- Creagrutinae Miles, 1943:41. Type genus: *Creagrutus* Günther, 1864.
- Xenobryconini Myers, Böhlke 1956:6. Type genus: *Xenobrycon* Myers, Miranda-Ribeiro, 1945.
- Exodonidi Fowler, 1958 (correct spelling Exodontidi):10. Type genus: *Exodon* Müller, Troschel, 1844. Additional comments: Fowler (1958) misspelled Exodonidi. Géry (1964d:459) corrected the name to Exodontidi.
- Grundulidi Fowler, 1958:8. Type genus: *Grundulus* Valenciennes, 1846.
- Roeboididi Fowler, 1958:10. Type genus: *Roeboides* Günther, 1864.
- Scissorini Fowler, 1958:8. Type genus: *Scissor* Günther, 1864.
- Pristellidi Géry, Boutière, 1964:482. Type genus: *Pristella* Eigenmann, 1908.
- Hemibryconini Géry, 1966b:218. Type genus: *Hemibrycon* Günther, 1864.
- Pseudochalceini Géry, 1966b:219. Type genus: *Pseudochalceus* Kner, 1863.
- Aphyoditeini Géry, 1972c:16. Type genus: *Aphyodite* Eigenmann, 1912.

- Paragoniatinae Géry, 1972a:57. Type genus: *Paragoniates* Steindachner, 1876.
- Stigichthyini Géry, 1972a (correct spelling Stygichthyini):50. Type genus: *Stygichthys* Brittan, Böhlke, 1965. Additional comments: Although this correction was not formally noticed by the authors, Van Der Laan *et al.* (2014) were the first to correct the spelling of the tribe to Stygichthyini.
- Compsurini Malabarba, Weitzman, Burns in Malabarba, 1998:200. Type genus: *Compsura* Eigenmann, 1915.
- Landonini Weitzman, Menezes, 1998:180. Type genus: *Landonia* Eigenmann, Henn, 1914. Additional comments: According to Van Der Laan *et al.* (2014) the correct stem is Landoni-. Landonini appeared first in the abstract on page 171, but the new name is formally proposed only on page 180.
- Phenacobryconini Weitzman, Menezes, 1998:186. Type genus: *Phenacobrycon* Eigenmann, 1922. Additional comments: Phenacobryconini appeared first in the abstract on page 171, but the new name is formally proposed only on page 186.
- Trochilocharacini Zarske, 2010:92. Type genus: *Trochilocharax* Zarske, 2010. Additional comments: Trochilocharacini appeared first in the abstract on page 75, but the new name is formally proposed only on page 92.
- Phenacogasterini Mattox, Toledo-Piza, 2012 (correct stem would be Phenacogastr-):882. Type genus: *Phenacogaster* Eigenmann, 1907.
- Pseudocheirodontini Mariguela, Ortí, Avelino, Abe, Oliveira, 2013:30. Type genus: *Pseudocheirodon* Meek, Hildebrand, 1916.
- Eretmobryconini Thomaz, Arcila, Ortí, Malabarba, 2015:13. Type genus: *Eretmobrycon* Fink, 1976. Additional comments: Name appeared first in cladogram on page 9, but the new name is formally defined on page 13.
- Protocheirodontini Vari, Melo, Oliveira, 2016:e150154. Type genus: *Protocheirodon* Vari, Melo, Oliveira, 2016.
- Spintherobolinae Mirande, 2018:14. Type genus: *Spintherobolus* Eigenmann, 1911.

ACANTHOCHARAX Eigenmann, 1912

CAS Lucena

Acanthocharax Eigenmann, 1912a:258, 404. Type species: *Acanthocharax microlepis* Eigenmann, 1912. Type by original designation. Gender: Masculine.

Acanthocharax microlepis Eigenmann, 1912

Acanthocharax microlepis Eigenmann, 1912a:405, Pl. 61 (fig. 1). Type locality: Tumatumari. [Guyana]. Holotype: FMNH 54475.
Distribution: 310 (Eigenmann, 1912a).

ACESTROCEPHALUS Eigenmann, 1910

V Giovannetti

Acestrocephalus Eigenmann, 1910:447. Type species: *Xiphorhamphus anomalus* Steindachner, 1880. Type by original designation. Gender: Masculine.

Acestrocephalus acutus Menezes, 2006

Acestrocephalus acutus Menezes, 2006:397, fig. 13. Type locality: Brazil, Pará: Caldeirão, Igarapé do Cinzento, rio Itacaiúnas. Holotype: MZUSP 31650.

Distribution: 320, 324 (Menezes, 2006).

Acestrocephalus anomalus (Steindachner, 1880)

Xiphorhamphus anomalus Steindachner, 1880:84 [32]. Type locality: Cauca. [Colombia]. Holotype: NMW 57983.

Distribution: 302 (Menezes, 1976).

Acestrocephalus boehlkei Menezes, 1977

Acestrocephalus boehlkei Menezes, 1977:186, fig. 1. Type locality: Rio Punino, a tributary of the Rio Payamino (Napo river system), above Coca, Ecuador. Holotype: MCZ 51473.

Distribution: 316, 317 (Menezes, 2006).

Acestrocephalus maculosus Menezes, 2006

Acestrocephalus maculosus Menezes, 2006:393, fig. 10. Type locality: Brazil, Goiás: Minaçu, córrego Água Parada, tributary of rio do Peixe, Serra da Mesa. Holotype: MZUSP 53974.

Distribution: 324 (Menezes, 2006).

Acestrocephalus nigrifasciatus Menezes, 2006

Acestrocephalus nigrifasciatus Menezes, 2006:395, fig. 12. Type locality: Brazil, Mato Grosso: Porto dos Gaúchos, rio Arinos, rio Tapajós basin, 11°31'51"S, 57°25'8"W. Holotype: MCP 30420.

Distribution: 320 (Menezes, 2006).

Acestrocephalus pallidus Menezes, 2006

Acestrocephalus pallidus Menezes, 2006:398, fig. 14. Type locality: Brazil, Amazonas: rio Madeira, ilha do Puruzinho. Holotype: MZUSP 35624.

Distribution: 316, 321 (Menezes, 2006).

Acestrocephalus sardina (Fowler, 1913)

Charax sardina Fowler, 1913b:566, fig. 21. Type locality: Madeira River, about 200 miles east of W. Long 60°20', Brazil. Holotype: ANSP 39307.

Acestrocephalus ginesi Lasso, Taphorn, 2000:443, fig. 1. Type locality: Venezuela, Apure State, Rio Cinaruco, playa em frente de Laguna Larga, Distrito Muñoz (06°33'45"N, 67°24'W). Holotype: MCNG 34681. Taxonomic status discussed in Menezes (2006).

Distribution: 308, 314, 316, 321 (Menezes, 2006).

Acestrocephalus stigmatus Menezes, 2006

Acestrocephalus stigmatus Menezes, 2006:394, fig. 11. Type locality: Brazil, Mato Grosso: Nova Xavantina, rio das Mortes, rio Araguaia basin, 14°40'9"S, 52°21'12"W. Holotype: MNRJ 28718.

Distribution: 322, 324 (Menezes, 2006).

ACINOCHEIRODON Malabarba, Weitzman, 1999

FC Jerep, LR Malabarba, J Chuctaya

Acinocheiroduon Malabarba, Weitzman, 1999:413. Type species: *Acinocheiroduon melanogramma* Malabarba, Weitzman, 1999. Type by original designation. Gender: Masculine.

Acinocheiroduon melanogramma Malabarba, Weitzman, 1999

Acinocheiroidon melanogramma Malabarba, Weitzman, 1999:413, figs. 1–7. Type locality: Brazil, Minas Gerais, rio São Francisco drainage. Município de Bocaiúva, córrego Cachoeira, tributary to rio Jequitá, km 413 of highway BR 135, approximately 17°28'S, 44°02'W. Holotype: MNRJ 16455.

Distribution: 327, 328 (Malabarba, Weitzman, 1999).

Remarks: Malabarba, Weitzman, 1999 restricted type specimens to Rio São Francisco basin and referred specimens from rio Jequitinhonha as *Acinocheiroidon* cf. *melanogramma*.

ACROBRYCON Eigenmann, Pearson, 1924

NA Menezes, P Camelier

Acrobrycon Eigenmann, Pearson, in Pearson, 1924:44. Type species: *Tetragonopterus ipanquianus* Cope, 1877. Type by original designation. Gender: Masculine.

Acrobrycon ipanquianus (Cope, 1877)

Tetragonopterus ipanquianus Cope, 1877:44 [28]. Type locality: Upper waters of the Urubamba, one of the sources of the Ucayale. [Peru]. Lectotype: ANSP 21114. [Designated by Fowler (1906:337, fig. 25). Treated as holotype by Böhlke (1984:49), and Arcila *et al.* (2013:607)].

Distribution: 317, 318 (Cope, 1877; Weitzman, 2003).

Acrobrycon ortii Arcila, Vari, Menezes, 2013

Acrobrycon ortii Arcila, Vari, Menezes, 2013:609, fig. 5. Type locality: Bolivia, Villamontes, Río Pilcomayo, Río Paraguay basin, 21°20'S, 63°37'W. Holotype: CBF 13305. [Previously USNM 305496].

Distribution: 342 (Arcila *et al.*, 2013).

Acrobrycon starnesi Arcila, Vari, Menezes, 2013

Acrobrycon starnesi Arcila, Vari, Menezes, 2013:606, fig. 4. Type locality: Bolivia, Chuquisaca, Río Thyumayu, tributary of Río Azero, by road 30 air km SE of Padilla, 19°34'S, 64°08'W. Holotype: CBF 13307. [Previously USNM 319277].

Distribution: 318 (Arcila *et al.*, 2013).

Acrobrycon tarijae Fowler, 1940

Acrobrycon tarijae Fowler, 1940b:50, figs. 5–6. Type locality: Rio Lipeo, Bolivia. Holotype: ANSP 68775.

Distribution: 342 (Briñoccoli *et al.*, 2022).

AMAZONSPINTHER Bührnheim, Carvalho, Malabarba, Weitzman, 2008

FC Jerep, LR Malabarba, J Chuctaya

Amazonspinther Bührnheim, Carvalho, Malabarba, Weitzman, 2008:664. Type species: *Amazonspinther dalmata* Bührnheim, Carvalho, Malabarba, Weitzman, 2008. Type by monotypy. Gender: Masculine.

Amazonspinther dalmata Bührnheim, Carvalho, Malabarba, Weitzman, 2008

Amazonspinther dalmata Bührnheim, Carvalho, Malabarba, Weitzman, 2008:665, figs. 1–5, 6a, 7, 11, 12. Type locality: Brazil, Amazonas, Humaitá-Canutama, stream crossing road Transamazônica about 12 km west of Humaitá to Lábrea,

rio Madeira basin, 07°34'25"S, 63°06'39"W. Holotype: MCP 38623.
Distribution: 316 (Bührnheim *et al.*, 2008).

ANDROMAKHE Terán, Benitez, Mirande, 2020

M Toledo-Piza

Andromakhe Terán, Benitez, Mirande, 2020 Type species: *Astyanax latens* Mirande, Aguilera, Azpelicueta, 2004. Type by original designation. Gender: Feminine.

Andromakhe latens (Mirande, Aguilera, Azpelicueta, 2004)

Astyanax latens Mirande, Aguilera, Azpelicueta, 2004:215, figs. 1–4. Type locality: Argentina, Salta, río Bermejo basin, arroyo El Oculito (23°07'S, 64°30'W). Holotype: CI-FML 3400.

Distribution: 342 (Mirande *et al.*, 2004).

Remarks: Placed in *Andromakhe* by Terán *et al.* (2020:10).

Andromakhe paris (Azpelicueta, Almirón, Casciotta, 2002)

Astyanax paris Azpelicueta, Almirón, Casciotta, 2002:1052, figs. 1–3. Type locality: Argentina, province of Misiones, río Uruguay basin, headwater of arroyo Yabotí-Guazú, arroyo Fortaleza (26°45'S, 54°10'W). Holotype: MLP 9584.

Distribution: 333 (Azpelicueta *et al.*, 2002; Lucena *et al.*, 2013).

Remarks: Placed in *Andromakhe* by Terán *et al.* (2020:10).

Andromakhe saguazu (Casciotta, Almirón, Azpelicueta, 2003)

Astyanax saguazu Casciotta, Almirón, Azpelicueta, 2003:330, figs. 1–2. Type locality: Argentina: Misiones: río Uruguay basin, headwater of arroyo Once Vueltas (27°38'S, 55°12'W). Holotype: MLP 9603.

Distribution: 332, 333 (Lucena *et al.*, 2013).

Remarks: Placed in *Andromakhe* by Terán *et al.* (2020:10).

Andromakhe stenohalina (Messner, 1962)

Astyanax stenohalinus Messner, 1962:4. Type locality: Laguna Mazangano, Uruguay. Syntypes: MHNM CI 845 (2), 1066 (1), 1186 (1), 1646 (2).

Distribution: 332, 334 (Almirón *et al.*, 2010).

Remarks: Placed in *Andromakhe* by Terán *et al.* (2020:10).

Andromakhe tupi (Azpelicueta, Mirande, Almirón, Casciotta, 2003)

Astyanax tupi Azpelicueta, Mirande, Almirón, Casciotta, 2003:3, figs. 1–2. Type locality: Argentina, province of Misiones, arroyo Cuñapirú in Balneario de Aristóbulo del Valle. Holotype: MACN-Ict 8646.

Distribution: 345 (Azpelicueta *et al.*, 2003).

Remarks: Placed in *Andromakhe* by Terán *et al.* (2020:10).

APHYCHARACIDIUM Géry, 1960

MMF Marinho

Aphycharacidium Géry, 1960f:24. Type species: *Odontostilbe melandetus* Eigenmann, 1912. Type by original designation. Gender: Neuter.

Aphycharacidium bolivianum Géry, 1973

Aphycharacidium bolivianum Géry, 1973:101, figs. 12–14. Type locality: Brook between upper rios Chaparé and Chimoré (or Ichilo), tributaries of the rio

Mamoré (into rio Madeira), east of Todos Santos, Central Bolivia, approximately 16° 47'S, 65° W. Holotype: ZFMK 2933.

Distribution: 318 (Géry, 1973).

Aphyocharacidium melandetum (Eigenmann, 1912)

Odontostilbe melandetus Eigenmann, 1912a:312, Pl. 44 (fig. 3). Type locality: British Guiana. [Guyana]. Holotype: CM 1878 (missing from FMNH).

Distribution: 311 (Géry, 1960f).

Remarks: The original description of *Aphyocharacidium melandetum* did not specify the exact location where the types were collected in Guyana. Géry (1960f) erected *Aphyocharacidium* and transferred the species to the genus, presenting a redescription based on four specimens from French Guiana. Apparently, the author did not examine the types. *Aphyocharacidium melandetum* remains poorly known and a taxonomic revisionary study is necessary for this taxon. See Planquette *et al.* (1966) for additional comments.

APHYOCHARAX Günther, 1868

R Souza-Lima

Aphyocharax Günther, 1868a:480. Type species: *Aphyocharax pusillus* Günther, 1868. Type by monotypy. Gender: Masculine.

Holoprion Eigenmann, 1903:145. Type species: *Chirodon agassizii* Steindachner, 1882. Type by original designation. Gender: Masculine.

Phoxinopsis Regan, 1907a:262. Type species: *Phoxinopsis typicus* Regan, 1907. Type by monotypy. Gender: Feminine. Additional comments: Status of genus discussed by Malabarba, 1998:229.

Notropocharax Marini, Nichols, La Monte, 1933:6. Type species: *Notropocharax difficilis* Marini, Nichols, La Monte, 1933. Type by monotypy. Gender: Masculine. Additional comments: Status of genus discussed by Malabarba, 1998:231.

Aphyocharax agassizii (Steindachner, 1882)

Chirodon agassizii Steindachner, 1882c:180. Type locality: Jatuarana. [According to Higuchi (1996) the locality is probably an igarape or lagoa SW of Parintins, near Barreirinha, Amazonas, Brazil. There are at least five places named Jatuarana in the Amazon region, including a locality called Barreirinha near Parintins (former locality of Villa Bella). However, most probably, the locality is the Jatuarana igarape, about 50 km downstream (east) of Manaus, in front of Marimbá and Rei lakes and next to the igarape of the same name]. Syntypes: NMW 62686 (2).

Distribution: 316 (Souza-Lima, 2003).

Remarks: A more detailed diagnosis is provided in the publication of the same name and year: Steindachner (1882a).

Aphyocharax anisitsi Eigenmann, Kennedy, 1903

Aphyocharax anisitsi Eigenmann, Kennedy, 1903:517. Type locality: Asuncion. Holotype: CAS 59697.

Phoxinopsis typicus Regan, 1907a:262, 1 fig. Type locality: Aquarium fishes from Argentina. Holotype: BMNH 1907.6.28.51.

Aphyocharax rubropinnis Pappenheim, 1922:36. Type locality: Rosario (Argentinien). [Argentina]. Syntypes: ZMB 20497 (4).

Aphyocharax affinis Ahl, 1924a:33. Type locality: Ohne Fundort. [Zarske, Géry (1995:104) mentioned “(Fundort: Florida, 150 km südlich Asuncion)”. The locality is most probably “Villa Florida”, which is 163 km southeastern from Assunção, Paraguay, next to Tebicuary river (circa 26.404162 S, 57.129725 W)]. Lectotype: ZMB 31645. [Designated by Zarske, Géry (1995)]. Although Ahl has sent his article for publication in June 1923, it was actually published in 1924.

Aphyocharax ipacarayensis Ahl, 1924a:32. Type locality: Lagune Ipacaray, Paraguay. Holotype: ZMB 20605 [or 23605]. Although Ahl has sent his article for publication in June 1923, it was actually published in 1924.

Distribution: 332, 333, 334, 342, 343, 344, 345, 347 (Souza-Lima, 2003).

***Aphyocharax avary* Fowler, 1913**

Aphyocharax avary Fowler, 1913b:532, fig. 8. Type locality: Madeira River, about 200 miles east of Long. 62°20'W, Brazil. Holotype: ANSP 39217.

Distribution: 316 (Brito *et al.*, 2018:397).

Remarks: Previously considered a synonym *Aphyocharax alburnus* (Günther, 1869). Treated as valid by Brito *et al.*, 2018:398.

***Aphyocharax brevicaudatus* Brito, Guimarães, Carvalho-Costa, Ottoni, 2019**

Aphyocharax brevicaudatus Brito, Guimarães, Carvalho-Costa, Ottoni, 2019:510, figs. 1, 2. Type locality: Brazil, Maranhão state, Maracaçumé municipality, Maracaçumé River, 2°3'14"S, 45°57'16"W. Holotype: CICCAA 02293.

Distribution: 323 (Brito *et al.*, 2019).

***Aphyocharax colifax* Taphorn, Thomerson, 1991**

Aphyocharax colifax Taphorn, Thomerson, 1991:113, fig. 1. Type locality: Venezuela, Estado Bolívar, Distrito Heres, parte media del Río Oris, um afluente del Río Paraguá, em el Campamento Turumbán de la CVG, (aprox. 06°18' N, 63°54'W). Holotype: MCNG 17127.

Distribution: 308 (Souza-Lima, 2003).

***Aphyocharax dentatus* Eigenmann, Kennedy, 1903**

Aphyocharax dentatus Eigenmann, Kennedy, 1903:516–517. Type locality: Asuncion, rio Paraguay (Laguna). [Paraguay]. Holotype: CAS 59722.

Aphyocharax pappenheimi Ahl, 1924a:33. Type locality: Ascuncion, Paraguay. Lectotype: ZMB 23607. [Designated by Zarske, Géry (1995)]. Although Ahl has sent his article for publication in June 1923, it was actually published in 1924.

Notropocharax difficilis Marini, Nichols, La Monte, 1933:6–7, fig. 3. Type locality: Rio Mogy-guassú, southeastern Brazil. Holotype: AMNH 12247.

Aphyocharax nasutus Ahl, 1936:20–22. Type locality: Rosario de Sta Fé, Argentinien. [Argentina]. Lectotype: ZMB 20795 (1). [Designated by Zarske, Géry (1995)].

Distribution: 342, 343, 344a, 345 (Souza-Lima, 2003; Souza-Lima, 2004).

***Aphyocharax erythrurus* Eigenmann, 1912**

Aphyocharax erythrurus Eigenmann, 1912a:313, Pl. 44 (fig. 4). Type locality: Rockstone sand-bank. [Guyana]. Holotype: FMNH 53579.

Distribution: 310 (Souza-Lima, 2003).

***Aphyocharax gracilis* Fowler, 1940**

Aphyocharax gracilis Fowler, 1940b:61, figs. 16–17. Type locality: Villa Montes, Rio Pilcomayo, Bolivia. Holotype: ANSP 68864.

Distribution: 342 (Souza-Lima, 2003).

Aphyocharax nattereri (Steindachner, 1882)

Chirodon nattereri Steindachner, 1882c:180. Type locality: Villa bella. [Currently Parintins, Amazonas, Brazil (Dick, 1977:24; Higuchi, 1996:44)]. Syntypes: whereabouts unknown.

Chirodon pulcher Steindachner, 1882a:39–40. Type locality: Villa bella (Amazonenstrom). [Brazil]. Syntypes: (several) NMW 62541–42 (6, 4), 77969 (3). [Steindachner (1882) only mentioned: “Zahlreiche” (= numerous)]. Secondarily preoccupied by *Tetragonopterus pulcher* Gill, 1883 when both are in *Cheirodon*, replaced by *Cheirodon steindachneri* Eigenmann, Eigenmann, 1891.

Cheirodon steindachneri Eigenmann, Eigenmann, 1891:54. Type locality: Villa bella (Amazonenstrom). [Brazil]. Syntypes: NMW 62541–42 (6, 4), 77969 (3). Replacement for *Chirodon pulcher* Steindachner, 1882.

Aphyocharax paraguayensis Eigenmann, 1915:33–34, fig. 10, Pl. 2 (fig. 2). Type locality: Rio Paraguay, Cáceres. [Brazil]. Holotype: FMNH 57922.

Distribution: 318, 319, 342, 343 (Souza-Lima, 2003).

Remarks: Priority of *Chirodon nattereri* Steindachner, 1882 over *Chirodon pulcher* Steindachner, 1882 is given by date of publication.

Aphyocharax pusillus Günther, 1868

Aphyocharax pusillus Günther, 1868a:480. Type locality: Huallaga and Xeberos. [Peru]. Syntypes: (1) BMNH 1867.6.13.46 (1); BMNH 1867.6.13.58–59 (2). [Brito *et al.*, 2018:394].

Chirodon alburnus Günther, 1869:424, fig. 2. Type locality: Peruvian Amazons. Lectotype: BMNH 1869.5.21.10. [Designated by Brito *et al.*, 2018:396]. Synonymy proposed by Brito *et al.*, 2018; Souza-Lima, 2004).

Distribution: 316, 318a, 319a, 321a (Souza-Lima, 2003; 2004).

Remarks: A more detailed diagnosis is provided in the publication of the same year: Günther (1868b). Taxonomic status discussed by Brito *et al.*, 2018:394.

Aphyocharax rathbuni Eigenmann, 1907

Aphyocharax rathbuni Eigenmann, in Eigenmann, Ogle, 1907:10–11. Type locality: Arroyo Chagalalina, Paraguay basin. Holotype: CAS 76467.

Aphyocharax stramineus Eigenmann, in Eigenmann, Ogle, 1907:11. Type locality: Arroyo Trementina. [Paraguay]. Holotype: CAS 76472.

Distribution: 343 (Souza-Lima, 2003).

Remarks: Eigenmann (1915:31–32): listed *Aphyocharax stramineus* as a junior synonym of *A. rathbuni* and thus acted as first reviser.

Aphyocharax yekwanae Willink, Chernoff, Machado-Allison, 2003

Aphyocharax yekwanae Willink, Chernoff, Machado-Allison, in Willink, Chernoff, Machado-Allison, Provenzano, Petry, 2003:2, fig. 1. Type locality: Venezuela: Bolivar: Río Erebató, 5 km upstream from Entreríos, 5°53'59"N, 64°28'43"W. Holotype: MBUCV-V-30140.

Distribution: 308 (Willink *et al.*, 2003).

APHYOCHEIRODON Eigenmann, 1915 **FC Jerep, LR Malabarba, J Chuctaya**

Aphyocheiroduon Eigenmann, 1915:58. Type species: *Aphyocheiroduon hemigrammus* Eigenmann, 1915. Type by original designation. Gender: Masculine.

***Aphyocheiroduon hemigrammus* Eigenmann, 1915**

Aphyocheiroduon hemigrammus Eigenmann, 1915:58, fig. 18, Pl. 9 (fig. 2). Type locality: Jaquara. [Type locality in Brazil specified in Haseman, Eigenmann (1911) as: Jaguará, Rio Grande, into Rio Paraná; creeks and lagoons of the Rio Grande. Aug. 18–19, 1908]. Holotype: FMNH 57819. Distribution: 344 (Eigenmann, 1915).

APHYODITE Eigenmann, 1912

MMF Marinho

***Aphyodite* Eigenmann, 1912a:255, 314.** Type species: *Aphyodite grammica* Eigenmann, 1912. Type by original designation. Gender: Feminine.

***Aphyodite apiaka* Esguícero, Castro, 2017**

Aphyodite apiaka Esguícero, Castro, 2017:758, fig. 5. Type locality: Brazil, Amazonas State, Nova Aripuanã Municipality, Rio Madeira, Rio Aripuanã, ressaca (= wetlands) of Lago Jenipapo, 06°09'08"S, 60°13'29"W. Holotype: INPA 52541. Distribution: 321 (Esguícero, Castro, 2017).

***Aphyodite grammica* Eigenmann, 1912**

Aphyodite grammica Eigenmann, 1912a:314, Pl. 44 (fig. 5). Type locality: Konawaruk, Guyana. Holotype: FMNH 53408. Distribution: 310, 316, 321 (Eigenmann, 1912a; Lima *et al.*, 2013). Remarks: Redescription in Géry (1973) and Esguícero, Castro (2017). Taxonomic accounts in Lima *et al.* (2013).

***Aphyodite tupebas* Esguícero, Castro, 2017**

Aphyodite tupebas Esguícero, Castro, 2017:760, fig. 7. Type locality: Brazil, Amazonas State, Tefé Municipality, Rio Solimões, Rio Tefé, Jurupari, capim-praia (= flooded grasses and beach), approximately 03°22'S, 64°43'W. Holotype: MZUSP 119760. Distribution: 316 (Esguícero, Castro, 2017).

ARGOPLEURA Eigenmann, 1913

NA Menezes, P Camelier

***Argopleura* Eigenmann, 1913:10.** Type species: *Bryconamericus magdalenensis* Eigenmann, 1913. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as subgenus of *Bryconamericus* Eigenmann, McAtee, Ward.

***Xenurocharax* Regan, 1913b:463.** Type species: *Xenurocharax spurrellii* Regan, 1913. Type by monotypy. Gender: Masculine.

Remarks: Priority of *Argopleura* over *Xenurobrycon* (dates of publication June *vs.* November 1913, respectively) discussed by Weitzman, 2003:223.

***Argopleura chocoensis* (Eigenmann, 1913)**

Bryconamericus chocoensis Eigenmann, 1913:14. Type locality: Istmina. [Colombia]. Holotype: FMNH 56235.

Xenurocharax spurrellii Regan, 1913b:463. Type locality: Condoto. [Colombia].

Holotype: BMNH 1913.10.1.33.

Distribution: 301 (Eigenmann, 1913; Weitzman, 2003:223).

Remarks: Priority of *Bryconamericus chocoensis* over *Xenurobrycon spurrellii* given by date of publication (June 1913 vs. November 1913, respectively). See Weitzman (2003:223).

Argopleura conventus (Eigenmann, 1913)

Bryconamericus conventus Eigenmann, 1913:13. Type locality: Soplaviento. [(Colombia)]. Holotype: FMNH 56261.

Distribution: 302 (Eigenmann, 1913; Weitzman, 2003:223).

Argopleura diquensis (Eigenmann, 1913)

Bryconamericus diquensis Eigenmann, 1913:14. Type locality: Soplaviento. [(Colombia)]. Holotype: FMNH 56272.

Distribution: 302 (Eigenmann, 1913; Weitzman, 2003:223).

Argopleura magdalenensis (Eigenmann, 1913)

Bryconamericus magdalenensis Eigenmann, 1913:14. Type locality: Girardot. [(Colombia)]. Holotype: FMNH 56263.

Distribution: 302 (Eigenmann, 1913; Weitzman, 2003:223).

ASTYANACINUS Eigenmann, 1907

FCP Dagosta

Astyanacinus Eigenmann, 1907:769. Type species: *Tetragonopterus moorii* Boulenger, 1892. Type by original designation. Gender: Masculine.

Remarks: *Astyanacinus* is herein maintained as valid since its synonymization within *Astyanax* proposed by Ruiz-C. *et al.* (2018:3) seems to be premature. Regardless of being part of *Astyanax* or not, the species included in *Astyanacinus* were proposed as a monophyletic group by Dagosta (2011) based on characters that are exclusive among *Astyanax* species and their combination is, at least, unusual among other Tetragonopterinae. *Astyanax* is a genus markedly known as polyphyletic, lacking a phylogenetic definition. In addition, the relationships of *Astyanacinus* with species currently included in the genus *Astyanax* is not well understood yet. Dagosta (2011) provided evidence for a close relationship of *Astyanacinus* with *Oligosarcus*, *Hollandichthys*, and *Rachoviscus* or, alternatively, as the sister of *Astyanax*. Terán *et al.* (2020) found the type-species of *Astyanacinus* as being part of the *Astyanax* clade, corroborating the decision of Ruiz-C. *et al.* (2018:3). Alternatively, Melo *et al.* (2022) pointed out the same species as sister of *Grundulus bogotoensis* and part of a trans-Andean clade composed also by *Carlana*, *Nematobrycon*, and *Rhoadsia*. Aiming at the taxonomic stability and the maintenance of a name representing a phylogenetically corroborated clade and morphologically recognized group, the genus *Astyanacinus* is herein considered as valid until the phylogenetic position of its type-species is confidently addressed.

Astyanacinus moorii (Boulenger, 1892)

Tetragonopterus moorii Boulenger, 1892:11, Pl. 2 (fig. 1). Type locality: Chapala plateau, Matto Grosso, Brazil. [Probably Chapada dos Guimarães, Mato Grosso].

Syntypes: BMNH 1892.4.20.50–51 (2). [One specimen in poor condition].

Distribution: 318, 343 (Pearson, 1937).

***Astyanacinus multidentis* Pearson, 1924**

Astyanacinus multidentis Pearson, 1924:41, Pl. 9 (fig. 4). Type locality: Rio Colorado, Lower Bopi, Bolivia. [(= Boopi) affluent of the Beni river]. Lectotype: CAS 38955. [Designated by Ruiz-C *et al.*, 2018:18. Originally, the type series of *Astyanacinus multidentis* was represented only by the lot IU 17323 with 22 specimens. Six of the 22 syntypes were later donated to UMMZ (UMMZ 66510) and the other 16 specimens received the number CAS 38955. Lots MCZ 21064 (1), MCZ 89559 (27), and MCZ 20826 (1) were tentatively assigned to *Astyanacinus multidentis* by Lima *et al.*, 2003:107 which is not confirmed here. The first two lots are part of the type series of *Astyanax multidentis* Eigenmann, 1908 and the latter is a non-type specimen of the same species collected with MCZ 89559 (see Marinho, Birindelli, 2013 for details).

Astyanax bopiensis Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018:16, fig. 7. Type locality: Rio Colorado, Lower Bopi, Bolivia. Lectotype: CAS 38955. [96.9 mm SL; incorrectly listed as CAS 39955 in Ruiz-C. *et al.*, 2018:16]. Replacement for *Astyanacinus multidentis* Pearson, 1924 when preoccupied in *Astyanax* by *Astyanax multidentis* Pearson, 1924.

Distribution: 318 (Pearson, 1924).

Remarks: *Astyanax bopiensis* was proposed by Ruiz-C. *et al.*, 2018:16 as replacement for *Astyanacinus multidentis* Pearson, 1924 when they included the latter species in *Astyanax* and therefore it became a secondary junior homonym of *Astyanax multidentis* Eigenmann, 1908. If *Astyanacinus* is considered a valid genus, then *Astyanax bopiensis* is to be considered a junior synonym of *Astyanacinus multidentis*. Ruiz-C. *et al.*, 2018:16 incorrectly listed lot CAS 38955 under “Non type material” (information provided for this lot is also incorrect).

***Astyanacinus yariguies* Torres-Mejia, Hernández, Senechal, 2012**

Astyanacinus yariguies Torres-Mejia, Hernández, Senechal, 2012:502, fig. 1–2. Type locality: Colombia, Santander, El Carmen, Río Magdalena system, Río Cascajales system, Río Sucio, under bridge on road from El Carmen to Vereda Islandia, 6°41'14.6"N, 73°35'15.1"W. Holotype: UIST 1752.

Distribution: 302 (Torres-Mejia *et al.*, 2012).

ASTYANAX Baird, Girard, 1854**AM Zanata, VA Bertaco**

Astyanax Baird, Girard, 1854:26. Type species: *Astyanax argentatus* Baird, Girard, 1854. Type by monotypy. Gender: Masculine.

Poecilurichthys Gill, 1858:414, 417. Type species: *Poecilurichthys brevoortii* Gill, 1858. Type by subsequent designation by Eigenmann, 1910:432. Gender: Masculine. Additional comments: Synonym of *Astyanax* Baird, Girard, but a valid subgenus *Poecilurichthys* in Géry, 1977:426. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108 and Terán *et al.*, 2020:9.

Bramocharax Gill, in Gill, Bransford, 1877:189. Type species: *Bramocharax bransfordii* Gill, 1877. Type by monotypy. Gender: Masculine. Additional comments: Synonymy with *Astyanax* proposed and discussed by Schmitter-Soto (2016:101;

- 2017:1373). Listed as a synonym of *Astyanax* Baird, Girard in Terán *et al.*, 2020:9.
- Zygogaster** Eigenmann, 1913:22. Type species: *Zygogaster filiferus* Eigenmann, 1913. Type by original designation. Gender: Feminine. Additional comments: Synonym of *Astyanax* Baird, Girard, but a valid subgenus *Zygogaster* in Géry, 1977:430. Synonym of *Astyanax* Baird, Girard in Taphorn, 1992:110. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108. *Zygogaster* Eigenmann is a “candidate genus to be resurrected” in Terán *et al.*, 2020:8.
- Aequidens** Steindachner, 1915c:34. Type species: *Tetragonopterus (Aequidens) fasslii* Steindachner, 1915. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Tetragonopterus*. Preoccupied by *Aequidens* Eigenmann, Bray, 1894, in fishes; replaced by *Evenichthys* Whitley, 1935. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108.
- Bertoniolus** Fowler, 1918:141. Type species: *Bertoniolus paraguayensis* Fowler, 1918. Type by original designation. Gender: Masculine. Additional comments: Synonym of *Astyanax* Baird, Girard in Böhlke, 1984:52. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108 and Terán *et al.*, 2020:9.
- Evenichthys** Whitley, 1935:250. Type species: *Tetragonopterus (Aequidens) fasslii* Steindachner, 1915. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Aequidens* Steindachner, 1915, preoccupied by *Aequidens* Eigenmann, Bray, 1894. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108.
- Anoptichthys** Hubbs, Innes, 1936:3. Type species: *Anoptichthys jordani* Hubbs, Innes, 1936. Type by original designation. Gender: Masculine. Additional comments: Synonym of *Astyanax* Baird, Girard in Géry, 1977:418. Listed as a synonym of *Astyanax* Baird, Girard in Lima *et al.*, 2003:108.
- Catemaco** Contreras-Balderas, Rivera-Teillery, 1985:9. Type species: *Bramocharax caballeroi* Contreras-Balderas, Rivera-Teillery, 1985. Type by original designation. Gender: Masculine. Additional comments: Listed as a synonym of *Astyanax* Baird, Girard in Terán *et al.*, 2020:9.

Astyanax abramis (Jenyns, 1842)

Tetragonopterus abramis Jenyns, 1842:123, Pl. 23 (figs. 1, 1a). Type locality: Rio Parana, South America. No types known.

Bertoniolus paraguayensis Fowler, 1918:141, figure. Type locality: Puerto Bertoni, Paraguay. Holotype: ANSP 47686. Synonymy proposed by Lucena, Soares (2016).

Distribution: 332, 343, 345 (Lucena, Soares, 2016).

Astyanax acatlanensis Schmitter-Soto, 2017

Astyanax acatlanensis Schmitter-Soto, 2017:34, figs. 9(b), 15, 22, 23. Type locality: Río Acatlán, Puebla, Mexico. Holotype: UMMZ 25028.

Distribution: 171 (Schmitter-Soto, 2017).

Astyanax aeneus (Günther, 1860)

Tetragonopterus aeneus Günther, 1860c:319 [4]. Type locality: Fresh waters of Oaxaca (Mexico). Lectotype: BMNH 1860.6.17.41. [Designated by Schmitter-Soto (2021).

Tetragonopterus humilis Günther, 1864:327. Type locality: Lake of Amatitlan.

[Guatemala]. Syntypes: (at least 4) BMNH 1865.4.29.45–50 (6). Synonymy proposed by Schmitter-Soto, 2017.

Tetragonopterus microphthalmus Günther, 1864:324. Type locality: Pacific coast of Guatemala; Lake of Amatitlán; Rio Rimac. Syntypes: (9) BMNH 1863.2.3.8–12 (5) Rio Rimac, ?1864.1.26.349–350 (2) Panama or Guatemala, ?1865.4.29.43–44 (2) Lake Amatitlán. Synonymy proposed by Schmitter-Soto, 2017.

Distribution: 170, 172, 175, 201, 202, 205 (Günther, 1860c; Schmitter-Soto, 1998; Bussing, 2008).

Astyanax alleni (Eigenmann, McAtee, 1907)

Tetragonopterus alleni Eigenmann, McAtee, in Eigenmann, McAtee, Ward, 1907:126, Pl. 40 (fig. 2). Type locality: Corumba [Mato Grosso do Sul, Brazil]. Holotype: CAS 57616.

Distribution: 343, 345 (Menni, 2004; Lopes, 2009).

Astyanax altior Hubbs, 1936

Astyanax fasciatus altior Hubbs, 1936:176, Pl. 1 (fig. 1). Type locality: roadside pool 3 km. south of Progreso, Yucatan. [Mexico]. Holotype: UMMZ 102144.

Distribution: 175 (Schmitter-Soto, 1998; Schmitter-Soto, 2017).

Astyanax anai Angulo, Santos, López, Langeani, McMahan, 2018

Astyanax anai Angulo, Santos, López, Langeani, McMahan, 2018:1870:figs. 1,3. Type locality: Stream 1.6 km south-east of Shiroles near Suretka, on Bratsi-Shiroles road, province of Limón, Costa Rica, 9° 34'50"N, 82° 56'44"W, 60 m. Holotype: UCR 1298-06.1.

Distribution: 207 (Angulo, Santos, López, Langeani, McMahan, 2018).

Astyanax angustifrons (Regan, 1908)

Tetragonopterus angustifrons Regan, 1908a:172, Pl. 26 (fig. 5). Type locality: Mexico. Syntypes: (3) BMNH 1857.7.31.9 (1).

Distribution: 173, 174 (Regan, 1908a; Schmitter-Soto, 2017).

Astyanax aramburui Protogino, Miquelarena, López, 2006

Astyanax aramburui Protogino, Miquelarena, López, 2006:2, figs. 1–4. Type locality: Villaguay Creek at Balneario (31° 55'S, 59° 03'W), Gualaguay River basin, Entre Ríos Province, Argentina. Holotype: CFA-IC-11712. [Bogan *et al.*, 2019:11].

Distribution: 332, 345 (Protogino *et al.*, 2006).

Astyanax argentatus Baird, Girard, 1854

Astyanax argentatus Baird, Girard, 1854:27. Type locality: Upper tributaries of Rio Nueces. [Texas, U.S.A.]. Syntypes: BMNH 1883.12.14.107 (1), MCZ 858 (3), USNM 869 (28).

Distribution: 139 (Baird, Girard, 1854; Schmitter-Soto, 2017).

Astyanax argyrimarginatus Garutti, 1999

Astyanax argyrimarginatus Garutti, 1999:586, fig. 1. Type locality: Aragarças, Córrego Jaraguá, bacia do Rio Araguaia, GO (aproximadamente 15° 55'S, 52° 15'W). [Brazil]. Holotype: MZUSP 48268.

Distribution: 322, 324 (Garutti, 1999; Andrade *et al.*, 2012).

Astyanax atratoensis Eigenmann, 1907

Astyanax atratoensis Eigenmann, in Eigenmann, Ogle, 1907:28, fig. 5. Type locality: Truando, Colombia. Holotype: USNM 1659 (missing).

Distribution: 301 (Eigenmann, 1907; Ruiz-C. *et al.*, 2011).

Astyanax bacalarensis Schmitter-Soto, 2017

Astyanax bacalarensis Schmitter-Soto, 2017:10, figs. 11 – 12. Type locality: southern end of Lake Bacalar, Quintana Roo, Mexico. Holotype: UMMZ 250289.

Distribution: 202 (Schmitter-Soto, 2017).

Astyanax bagual Bertaco, Vigo, 2015

Astyanax bagual Bertaco, Vigo, 2015:266, figs. 1–2. Type locality: Brazil, Rio Grande do Sul State, Dois Lajeados, rio Carreiro downstream to hydroelectric plant PCH Linha Emília, rio Taquari-Antas basin, rio Jacuí drainage, laguna dos Patos system, 28°56'30"S 51°46'30"W. Holotype: UFRGS 19525.

Distribution: 334 (Bertaco, Vigo, 2015).

Astyanax bahiensis (Steindachner, 1877)

Tetragopterus bahiensis Steindachner, 1877:571 [13]. Type locality: Bahia. [Brazil].

Syntypes: NMW 57251–52 (2,1).

Distribution: 328 (Steindachner, 1877; Lucena, Soares, 2016).

Remarks: Taxonomic status discussed in Lucena, Soares, 2016.

Astyanax baileyi (Rosen, 1972)

Bramocharax baileyi Rosen, 1972:4, figs. 1–6. Type locality: Rio San Simon, 6 km. due west of Chisec, Alta Verapaz, Guatemala. Holotype: AMNH 30197.

Distribution: 174 (Schmitter-Soto, 2017).

Astyanax belizianus (Bocourt, 1868)

Tetragopterus belizianus Bocourt, 1868:62. Type locality: Environs de Belize. [Belize]. Lectotype: MNHN 2016–320. [Designated by Schmitter-Soto (2017:1371)]. See Schmitter-Soto (2021 for comments on type series).

Distribution: 202, 203 (Schmitter-Soto, 2017).

Astyanax bimaculatus (Linnaeus, 1758)

Salmo bimaculatus Linnaeus, 1758:311. Type locality: America meridionali. Syntypes: BMNH 1853.11.12.34 (1), ?NRM 7236 (2). [Types discussed by Fernholm, Wheeler, 1983:215 and Wheeler, 1989:210].

Tetragopterus maculatus Müller, Troschel, 1845:14, Pl. 3 (fig. 4). Type locality: Brasilia, Guiana et Surinam. Syntypes: MSNG 9226 (2).

Tetragopterus gronovii Valenciennes, in Cuvier, Valenciennes, 1850:143. Type locality: Surinam; Guyane. Syntypes: MNHN 0000–4402 (1), 4414 (1), A–9810 (1), A–9812 (2). Considered a provisional synonym by Lima *et al.*, 2003.

Tetragopterus linnaei Valenciennes, in Cuvier, Valenciennes, 1850:142. Type locality: Cayenne. Holotype: MNHN A–9809. Considered a provisional synonym by Lima *et al.*, 2003:153. Type locality: Not listed in the original description. Holotype: MNHN 0000–2636. [In the original description it is mentioned that specimen was donated by Schomburgk]. Considered a provisional synonym by Lima *et al.*, 2003:108.

Tetragopterus bartlettii Günther, 1866:30. Type locality: Upper Amazons. Syntypes: BMNH 1866.2.15.17–18 (2). Considered a provisional synonym by Lima *et al.*, 2003:108, not from Suriname.

Tetragopterus orientalis Cope, 1870:559. Type locality: Para. [Brazil]. No types known. [No types of the species were found in the ANSP collection according to Böhlke, 1984:52]. Considered a provisional synonym by Lima *et al.*, 2003:108; not from Suriname.

Distribution: 311 (Garutti, Britski, 2000).

Remarks: According to Garutti, Britski (2000) the species name should be applied only to specimens from Suriname, but the species probably also occurs in the Amazon basin.

Astyanax biotae Castro, Vari, 2004

Astyanax biotae Castro, Vari, 2004:331, fig. 1. Type locality: Brazil, Paraná State, Upper Rio Paraná system, Rio Paranapanema basin, Município de Diamante do Norte, Fazenda Água Mole, Córrego Água Mole (22°38'31.7"S, 52°48'59.0"W). Holotype: LIRP 4009.

Distribution: 344 (Castro, Vari, 2004).

Astyanax boliviensis Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018

Astyanax boliviensis Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018:10, fig. 5. Type locality: Bolivia, La Paz, Iturrealde Province, Amazon River basin, Madeira-Beni-Madidi-Candelaria River drainages, Candelaria River at La Candelaria, 13°35'21.88"S, 68°41'31.06"W, 304 m a.s.l. Holotype: CBF 13504.

Distribution: 318 (Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018).

Astyanax bourgeti Eigenmann, 1908

Astyanax bourgeti Eigenmann, 1908:95. Type locality: Tabatinga. [Brazil]. Holotype: MCZ 89557.

Distribution: 316 (Eigenmann, 1908).

Astyanax brachypterygium Bertaco, Malabarba, 2001

Astyanax brachypterygium Bertaco, Malabarba, 2001:228, figs. 9–11. Type locality: Brazil: Rio Grande do Sul: Bom Jesus, arroio Água Branca (28°36'S, 50°24'W), alt. 1050 m. Holotype: MCP 26094.

Distribution: 333, 334 (Bertaco, Malabarba, 2001).

Astyanax bransfordii (Gill, 1877)

Bramocharax bransfordii Gill, in Gill, Bransford, 1877:190. Type locality: Lake Nicaragua. [Nicaragua]. Lectotype: USNM 16885. [Designated by Schmitter-Soto, 2017:1373].

Bramocharax elongatus Meek, 1907:110. Type locality: Lake Managua, Managua, Nicaragua. Holotype: FMNH 5922.

Distribution: 205 (Schmitter-Soto, 2017).

Astyanax brevimanus (Günther, 1864)

Tetragonopterus brevimanus Günther, 1864:325. Type locality: Yzabal; Rio S. Geronimo; Guatemala. Syntypes: (8) BMNH 1861.8.12.20–21 (2) Guatemala, ?1864.1.24.177 (1) Rio S. Geronimo, 1864.1.26.388 (1) Yzabal; RMCA 7057 (1).

Tetragonopterus cobanensis Bocourt, 1868:62. Type locality: Rivière de Coban. Syntypes: BMNH 1907.4.10.2 (1); MNHN 0000–5219–5220 (19).

Distribution: 173, 174, 202 (Schmitter-Soto, 2017).

Astyanax brevirhinus Eigenmann, 1908

Astyanax brevirhinus Eigenmann, 1908:96. Type locality: Rio Jequitinhonha. [Brazil]. Holotype: MCZ 20905.

Distribution: 328 (Eigenmann, 1908).

Astyanax brevoortii (Gill, 1858)

Poecilurichthys brevoortii Gill, 1858:417 [57]. Type locality: Island of Trinidad. Syntypes: USNM 1113 (2). [Vari, Howe, 1991:34].

Distribution: 304 (Ruiz-C. *et al.*, 2022).

Remarks: Species revalidated and redescribed by Ruiz-C. *et al.*, 2022.

Astyanax brucutu Zanata, Lima, Di Dario, Gerhard, 2017

Astyanax brucutu Zanata, Lima, Di Dario, Gerhard, 2017:491, fig. 1–8. Type locality: Brazil, Bahia State, Iraquara, Fazenda Pratinha, rio Pratinha, tributary of rio Santo Antônio, rio Paraguaçu basin, 12°21'13"S, 41°32'51"W. Holotype: ZUEC 12765.

Distribution: 328 (Zanata *et al.*, 2017).

Astyanax caballeroi (Contreras-Balderas, Rivera-Teillery, 1985)

Bramocharax (Catemaco) caballeroi Contreras-Balderas, Rivera-Teillery, 1985:10. Type locality: NW del Lago Catemaco, Veracruz, Mexico. Holotype: UANL 5681.

Distribution: 171 (Schmitter-Soto, 2017).

Astyanax caucanus (Steindachner, 1879)

Tetragonopterus caucanus Steindachner, 1879f:189 [71]. Type locality: Cauca. [Colombia]. Syntypes: (several) NMW 57372–76 (2, 3, 2, 2, 2); SMNS 2833 (2); ZMUC 993 (1).

Distribution: 302 (Ruiz-C. *et al.*, 2011).

Astyanax chaparae Fowler, 1943

Astyanax chaparae Fowler, 1943c:3, fig. 2. Type locality: Todos Santos, Bolivia. Holotype: ANSP 69194.

Distribution: 318 (Fowler, 1943c).

Astyanax clavitaeniatus Garutti, 2003

Astyanax clavitaeniatus Garutti, 2003:3, fig. 2. Type locality: Surumu, rio Surumu (aprox. 03°30'N, 60°25'W), Roraima, Brasil. Holotype: MZUSP 5146.

Distribution: 315 (Garutti, 2003).

Astyanax cocibolca Bussing, 2008

Astyanax cocibolca Bussing, 2008:1362, figs. 1, 3. Type locality: Isletas de Granada, Lake of Nicaragua, elevation 31 m, depth 1.5 m. Holotype: LACM 56648-1.

Distribution: 205 (Bussing, 2008; Schmitter-Soto, 2017).

Astyanax cordovae (Günther, 1880)

Tetragonopterus cordovae Günther, 1880:12. Type locality: Río de Cordova. [Argentina]. Syntypes: BMNH 1872.4.4.4–11 (8).

Distribution: 339 (Miquelarena *et al.*, 2005).

Astyanax courensis Bertaco, Carvalho, Jerep, 2010

Astyanax courensis Bertaco, Carvalho, Jerep, 2010:269, figs. 5–6. Type locality: rio dos Couros at Parque Portal da Chapada, tributary of rio Tocantinzinho, upper rio Tocantins basin, Alto Paraíso de Goiás, Goiás State, Brazil, 14°09'58"S, 47°35'43"W elevation 1135 meters. Holotype: UFRGS 11499.

Distribution: 324 (Bertaco *et al.*, 2010).

Astyanax cremnobates Bertaco, Malabarba, 2001

Astyanax cremnobates Bertaco, Malabarba, 2001:224, figs. 2–4, 7. Type locality: Brazil: Rio Grande do Sul: São Francisco de Paula, tributary of rio Santa Cruz (29°23'S, 50°32'W), alt. 850 m. Holotype: MCP 26093.

Distribution: 334, 335 (Bertaco, Malabarba, 2001).

Astyanax cubilhuitz Schmitter-Soto, 2017

- Astyanax cubilluitz* Schmitter-Soto, 2017:50, figs. 24, 32. Type locality: “spring origin of short stream with underground drainage to Río Dolores, Cubilluitz, elevation 300 m, Icbolay”, Alta Verapaz, Guatemala. Holotype: UMMZ 250290. Distribution: 174 (Schmitter-Soto, 2017).
- Astyanax depressirostris*** Miranda-Ribeiro, 1908
Astyanax depressirostris Miranda-Ribeiro, 1908:[3]. Type locality: Ribeira. [Brazil]. Lectotype: MNRJ 18241. [Designated by Miranda-Ribeiro (1953)]. Distribution: 330 (Miranda-Ribeiro, 1908).
- Astyanax dissimilis*** Garavello, Sampaio, 2010
Astyanax dissimilis Garavello, Sampaio, 2010:859, fig. 8. Type locality: Rio Canoinhas, tributary of rio Rio Iguaçu near the bridge on highway BR 280 from Mafra to Itaiópolis, Canoinhas, Santa Catarina, Brazil. Holotype: MZUSP 105969. Distribution: 346 (Garavello, Sampaio, 2010).
- Astyanax dolinae*** da Graça, Oliveira, Lima, da Silva, Fernandes, 2017
Astyanax dolinae da Graça, Oliveira, Lima, da Silva, Fernandes, 2017:1125, figs. 1,2,4. Type locality: Brazil, Mato Grosso State, município de Cáceres, Dolina Água Milagrosa, Rio Paraguai basin, 16°02'34"S, 57°31'40"W. Holotype: MCP 49961. Distribution: 343 (da Graça, Oliveira, Lima, da Silva, Fernandes, 2017).
- Astyanax dorioni*** (Rosen, 1970)
Bramocharax transfordi dorioni Rosen, 1970:3, figs. 1, 2, 4, 6–9. Type locality: Rio Semococh, tributary to the Rio Chajmaic, a headwater source of the Rio de la Pasion (Rio Usumacinta Basin) 15 kilometers by road south of Sebol, Alta Verapaz, Guatemala. Holotype: AMNH 29411. Distribution: 202 (Schmitter-Soto, 2017).
- Astyanax douradilho*** Bertaco, 2014
Astyanax douradilho Bertaco, 2014:493, figs. 1–2. Type locality: Brazil, Rio Grande do Sul State, municipality of Maquiné, Barra do Ouro District, rio Maquiné basin, rio Tramadaí system, arroio Encantado, 29°36'28"S 50°12'15"W. Holotype: MCN 19858. Distribution: 335 (Bertaco, 2014).
- Astyanax elachylepis*** Bertaco, Lucinda, 2005
Astyanax elachylepis Bertaco, Lucinda, 2005:390, figs. 2–3. Type locality: ribeirão Arara about 500 m of the mouth of rio Maranhão at Rosariana, Niquelândia, Goiás, Brazil, approx. 14°02'S, 48°26'W. Holotype: MCP 37568. Distribution: 324 (Bertaco, Lucinda, 2005).
- Astyanax embera*** Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018
Astyanax embera Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018:6, fig. 2. Type locality: Colombia: Nariño Department, Barbacoas Municipality, Patía River Basin (Pacific Coast), Telembí River drainage, in Telembí River at mouth of Yamunde River, 1 km below Barbacoas, 01°39'56"N, 78°09'12"W, elevation 61 m a.s.l. Holotype: IUQ 3614. Distribution: 301 (Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018).
- Astyanax epiagos*** Zanata, Camelier, 2008
Astyanax epiagos Zanata, Camelier, 2008:29, fig. 1. Type locality: Brazil, Bahia,

Morro do Chapéu, rio Ferro Doido, above Cachoeira do Ferro Doido, tributary of rio Jacuípe, Paraguaçu drainage, 11°37'34.0"N, 41°00'11.5"W. [11°37'34.0"S. Erroneously given as 11°37'34.0"N in the original description]. Holotype: MZUSP 89568.

Distribution: 328 (Zanata, Camelier, 2008).

Astyanax eremus Ingenito, Duboc, 2014

Astyanax eremus Ingenito, Duboc, 2014:282, figs. 1–5. Type locality: Brazil, Paraná, Balsa Nova, rio Canivete, at Fazenda Amola-Faca/Registro, tributary to the rio Iguaçu, 25°35'09"S 49°44'01"W. Holotype: MNRJ 39677.

Distribution: 346 (Ingenito, Duboc, 2014).

Astyanax fasslii (Steindachner, 1915)

Tetragonopterus (Aequidens) fasslii Steindachner, 1915c:48 [34], Pl. 4 (fig. 7). Type locality: Westkolumbien. [Western Colombia]. Holotype: NMW.

Distribution: 302 (Steindachner, 1915c).

Remarks: Distribution not precisely known. Information based on original description: "Western Colombia".

Astyanax filiferus (Eigenmann, 1913)

Zyggaster filiferus Eigenmann, 1913:23. Type locality: Apulo. [Colombia]. Holotype: CAS 62258.

Distribution: 302 (Eigenmann, 1913; Ruiz-C. *et al.*, 2011).

Astyanax finitimus (Bocourt, 1868)

Tetragonopterus finitimus Bocourt, 1868:62. Type locality: Environs d'Orizaba. [Mexico]. Comments about type locality in Schmitter-Soto, 2017:1387]. Lectotype: MNHN 2016-321. [Designated by Schmitter-Soto, 2017:1386].

Tetragonopterus streetsii Cope, 1872a:217. Type locality: Head-waters of Coatzacoalcos River among the Cordilleras. [Mexico]. Syntypes: ANSP 15598–608 (11), 32371–74 (4). [Fowler (1906:346); Böhlke(1984:54)]. Synonymy proposed by Schmitter-Soto, 2017.

Tetragonopterus macrophthalmus Regan, 1908a:171, Pl. 26 (fig. 4). Type locality: Mexico, Motzorongo in Vera Cruz. Syntypes: (several) BMNH 1857.7.31.10 (1), 1905.12.6.19–22 (4), 1906.6.1.268 (1), 1906.6.1.269–278 (10?). Synonymy proposed by Schmitter-Soto, 2017.

Astyanax arandoi Lozano-Vilano, Contreras-Balderas, 1990:97, figs. 2 (top), 3a. Type locality: unnamed creek flowing through Penjamo, near Palenque, Chiapas, Mexico. Holotype: UANL 6380. [Synonymy proposed by Schmitter-Soto, 2017].

Distribution: 173 (Schmitter-Soto, 2017).

Astyanax gandhiae Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018

Astyanax gandhiae Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018:13, fig. 6. Type locality: Peru: Department of Amazonas, Condorcanqui Province, Marañon River Basin, upper Cenepa River drainage, 3°58'15"S, 78°41'15"W. Holotype: MUSM 46845.

Distribution: 316 (Ruiz-C., Román-Valencia, Taphorn, Buckup, Ortega, 2018).

Astyanax gisleni Dahl, 1943

Astyanax gisleni Dahl, 1943:218 [4], figure. Type locality: Rio Aburrá, tributary by way of Rio Porce to Rio Nechí, Magdalena system. Municipio of Medellín,

- department of Antioquia, Republic of Colombia. Syntypes: (13) ZMUL.
Distribution: 302 (Dahl, 1943).
- Astyanax goyacensis*** Eigenmann, 1908
Astyanax goyacensis Eigenmann, 1908:96. Type locality: Goyaz. [Brazil]. Holotype: MCZ 89558.
Distribution: 324 (Garutti, Langeani, 2009).
Remarks: Species redescribed by Garutti, Langeani (2009).
- Astyanax goyanensis*** (Miranda-Ribeiro, 1944)
Astyanacinus goyanensis Miranda-Ribeiro, 1944:1, figure. Type locality: Rio do Couro, Veadeiros, Estado de Goiaz. [Brazil]. Holotype: MNRJ 4129. [See Bertaco *et al.* (2010) for information about holotype].
Distribution: 324 (Bertaco *et al.*, 2010).
Remarks: Species redescribed by Bertaco *et al.* (2010).
- Astyanax gracilior*** Eigenmann, 1908
Astyanax gracilior Eigenmann, 1908:98. Type locality: Obidos and Villa Bella. [Brazil]. Syntypes: MCZ 20716 (1), 20838 (1), 21012 (1).
Distribution: 316 (Eigenmann, 1908).
- Astyanax guaricana*** Oliveira, Abilhoa, Pavanelli, 2013
Astyanax guaricana Oliveira, Abilhoa, Pavanelli, 2013:292, figs. 1–2. Type locality: Paraná State, municipality of São José dos Pinhais, Arraial, Guaricana Reservoir, affluent of the rio Cubatão, 25° 42'29"S 48° 58'25"W [Brazil]. Holotype: MZUSP 112224.
Distribution: 331 (Oliveira *et al.*, 2013).
- Astyanax henseli*** Melo, Buckup, 2006
Astyanax henseli Melo, Buckup, 2006:46. Type locality: Porto Alegre. [Brazil]. Holotype: ZMB 7479.
Tetragonopterus aeneus Hensel, 1870:87. Type locality: Porto Alegre. [Brazil]. Holotype: ZMB 7479. Preoccupied by *Tetragonopterus aeneus* Günther, 1860.
Distribution: 334 (Melo, Buckup, 2006; Lucena *et al.*, 2013).
Remarks: Replacement for *Tetragonopterus aeneus* Hensel, 1870.
- Astyanax incaicus*** Tortonese, 1942
Astyanax bimaculatus incaicus Tortonese, 1942:62 [52], Pl. 3. Type locality: Rio Zamora, Ecuador. Holotype: MZUT 3560.
Distribution: 312 (Tortonese, 1942).
Remarks: Validity of the species is questioned. Listed as a synonym of *Astyanax bimaculatus* in Lima *et al.* (2003:108) and treated as a valid species in Bertaco, Garutti (2007:28).
- Astyanax integer*** Myers, 1930
Astyanax integer Myers, 1930:67. Type locality: Guaicaramo, Rio Guavio, Colombia. Holotype: SU 23726.
Distribution: 307 (Myers, 1930).
- Astyanax jacobinae*** Zanata, Camelier, 2008
Astyanax jacobinae Zanata, Camelier, 2008:34, figs. 4–5. Type locality: Brazil, Bahia, Jacobina, Itaitu village, rio da Jaqueira below Cachoeira Araponga, tributary of rio Itapicuru-mirim, rio Itapicuru basin, 11° 22'19.8"N, 40° 29'39.7"W. [11° 22'19.8"S. Erroneously given as 11° 22'19.8"N in the original description].

- Holotype: MZUSP 89570.
 Distribution: 328 (Zanata, Camelier, 2008).
- Astyanax jenynsii*** (Steindachner, 1877)
Tetragonopterus jenynsii Steindachner, 1877:580 [22], Pl. 3 (figs. 1–2). Type locality: Rio Parahyba. [Brazil]. Syntypes: (7) NMW 57534–35 (3, 2). [See information about syntypes in Bertaco, Malabarba (2001) and Melo (2001)].
 Distribution: 329 (Bertaco, Malabarba, 2001; Melo, 2001).
 Remarks: Morphometric and meristic data of the syntypes in Bertaco, Malabarba (2001) and Melo (2001).
- Astyanax joaovitori*** Oliveira, Pavanelli, Bertaco, 2017
Astyanax joaovitori Oliveira, Pavanelli, Bertaco, 2017:174, figs. 1a–c. Type locality: Brazil, Mato Grosso State, municipality of Alto Taquari, headwaters of rio Araguaia, near Parque Nacional das Emas, 17°53'52"S 53°07'38"W. Holotype: MCP 51897.
 Distribution: 324 (Oliveira *et al.*, 2017).
- Astyanax jordanensis*** Vera Alcaraz, Pavanelli, Bertaco, 2009
Astyanax jordanensis Vera Alcaraz, Pavanelli, Bertaco, 2009:186, figs. 1–2. Type locality: Brazil, Paraná, município de Cândói, rio Iguazu basin, middle rio Jacu (25°37'S, 52°03'W). [Brazil]. Holotype: MZUSP 99137.
 Distribution: 346 (Vera Alcaraz *et al.*, 2009).
- Astyanax jordani*** (Hubbs, Innes, 1936)
Anoptichthys jordani Hubbs, Innes, 1936:5, Pl. 1. Type locality: Subterranean stream in the forested mountain region of southeastern San Luis Potosí, Mexico in a region southwest of Valles drained by the Río Tampaón of the Río Panuco system. Holotype: UMMZ 113514.
Anoptichthys antrobius Alvarez, 1946:278, figs. 16–23. Type locality: Cueva de El Pachón, Tamaulipas, México. Holotype: whereabouts unknown.
Anoptichthys hubbsi Alvarez, 1947:215, fig. 1. Type locality: Cueva de los Sabinos, San Luis Potosí, Ciudad Valles. [Mexico]. Holotype: whereabouts unknown.
 Distribution: 167 (Hubbs, Innes, 1936).
- Astyanax kennedyi*** Géry, 1964
Astyanax (Astyanax) kennedyi Géry, 1964h:28, fig. 3. Type locality: Upper Amazon region, surrounding Iquitos. [Peru]. Holotype: USNM 200425.
 Distribution: 316 (Géry, 1964h).
- Astyanax keronolepis*** Silva, Malabarba, Malabarba, 2019
Astyanax keronolepis Silva, Malabarba, Malabarba, 2019:177, figs. 8,9. Type locality: Ubatuba, Parque Estadual da Serra do Mar, Núcleo Picinguaba, rio Picinguaba (rio da Fazenda), 23°21'50"S, 44°49'47"W. Holotype: MNRJ 51290.
 Distribution: 329, 330 (Silva *et al.*, 2019).
- Astyanax kompi*** Hildebrand, 1938
Astyanax kompi Hildebrand, 1938:260, fig. 3. Type locality: Laguna Gulnar or Grande, Volcán, Pacific slope, Panama. Holotype: USNM 106510.
 Distribution: 206 (Hildebrand, 1938).
- Astyanax kullanderi*** Costa, 1995
Astyanax kullanderi Costa, 1995:258, fig. 1. Type locality: Brazil: Estado de Mato Grosso, stream tributary of rio Perdidos, rio das Mortes drainage, close to the road

BR-070, about 10 km W of Primavera do Leste, 15°32'S, 54°18'W. Holotype: MNRJ 12427.

Distribution: 324 (Costa, 1995).

Astyanax lacustris (Lütken, 1875)

Tetragonopterus lacustris Lütken, 1875c:131 [5]. Type locality: Lagoa Santa. [Brazil]. Syntypes: MNHN 0000-9580 (3), NMW 57540 (1), SMNS 2045 (2), ZMB 9200 (2), ZMUC uncat. (25).

Tetragonopterus jacuhiensis Cope, 1894a:88, Pl. 6 (fig. 6). Type locality: Jacuhy. [Brazil]. Lectotype: ANSP 21912. [Designated by Fowler (1907:435). Treated as holotype by Böhlke (1984:49), Lucena, Soares, 2016:114]. Synonymy proposed by Lucena, Soares (2016).

Astyanax (Poecilurichthys) bimaculatus paraguayensis Eigenmann, 1921:256, Pls. 62 (fig. 5), 92 (fig. 1). Type locality: Paraguay and Upper Tocantins. Syntypes: (179) CAS 38987-96 and 38999 (44), 38997 [IU 10244] (1), 38998 (1), 39000 (1); FMNH 54643-49 (8, 9, 5, 2, 10, 1, 2); CM 3274 and 3287 missing.

Astyanax bimaculatus asuncionensis Géry, 1972c:3. Type locality: Paraguay and Upper Tocantins. Syntypes: (179) CAS 38987-96 and 38999 (44), 38997 [IU 10244] (1), 38998 (1), 39000 (1); FMNH 54643-49 (8, 9, 5, 2, 10, 1, 2); CM 3274 and 3287 missing.

Astyanax altiparanae Garutti, Britski, 2000:67, fig. 1. Type locality: rio Grande, represa de Volta Grande, Miguelópolis, SP, Brasil (aproximadamente 20°10' S, 48°03'W). Holotype: MZUSP 18592.

Distribution: 327 (Lütken, 1875c; Lucena, Soares, 2016).

Astyanax laticeps (Cope, 1894)

Tetragonopterus laticeps Cope, 1894a:89, Pl. 6 (fig. 7). Type locality: Rio Grande do Sul. [Restricted to laguna dos Patos system by Malabarba, 1989:130]. Lectotype: ANSP 21852. [Designated by Fowler (1906:348). Treated as holotype by Böhlke (1984:49), and Lucena, Bertaco (2010:11)].

Distribution: 331, 332, 333, 334, 335 (Bertaco, Lucena, 2010).

Remarks: Species redescribed by Bertaco, Lucena (2010).

Astyanax leopoldi Géry, Planquette, Le Bail, 1988

Astyanax leopoldi Géry, Planquette, Le Bail, 1988b:9, figs. 1-3, 6. Type locality: Saut Alicoto en amont de Camopi, Moyen Oyapok. [French Guiana]. Holotype: IRSNB 731.

Distribution: 311 (Géry *et al.*, 1988b).

Astyanax lineatus (Perugia, 1891)

Tetragonopterus lineatus Perugia, 1891:644 [44]. Type locality: Villa Maria (Matto grosso) Rio Paraguay. [Brazil]. Syntypes: ?CAS 39222 (1), MSNG 9233 (2) [two specimens cited in Tortonese as C.E. 9233, (1961:183)].

Distribution: 343, 344, 345 (Ferreira *et al.*, 2017).

Astyanax longior (Cope, 1878)

Tetragonopterus longior Cope, 1878:691. Type locality: Moyabamba, Peru. Lectotype: ANSP 21222. [Designated by Fowler (1906:341, fig. 29, not 30). Treated as holotype by Böhlke (1984:50)].

Distribution: 312 (Cope, 1878).

Astyanax lorien Zanata, Burger, Camelier, 2018

- Astyanax lorien* Zanata, Burger, Camelier, 2018:473, figs. 1–2. Type locality: Brazil, Bahia State, Lençóis, Chapada Diamantina, stream tributary of Rio Mucugezinho, itself a tributary of Rio Santo Antônio, Rio Paraguaçu basin, 12°28'02"S, 41°24'56"W, 734 m a.s.l. Holotype: MZUSP 123398. Distribution: 328 (Zanata, Burger, Camelier, 2018).
- Astyanax macal*** Schmitter-Soto, 2017
Astyanax macal Schmitter-Soto, 2017:57, figs. 10(a), 15, 35. Type locality: “between San Luis and Millonarios, Cayo District”, Macal River, Maya Mountains, highlands of Belize. Holotype: UMMZ 250291. Distribution: 202 (Schmitter-Soto, 2017).
- Astyanax maculisquamis*** Garutti, Britski, 1997
Astyanax maculisquamis Garutti, Britski, 1997:220, fig. 1. Type locality: Pontes e Lacerda (aproximadamente 15°12'S, 59°22'W), MT, poça em córrego afluente do rio Guaporé (cerca de 7 km da ponte), bacia do rio Madeira, bacia amazônica. [Mato Grosso, Brazil]. Holotype: MZUSP 37680. Distribution: 319 (Garutti, Britski, 1997).
- Astyanax magdalenae*** Eigenmann, Henn, 1916
Astyanax magdalenae Eigenmann, Henn, 1916:89. Type locality: Girardot, Colombia. Holotype: FMNH 57006. Distribution: 302, 304 (Eigenmann, Henn, 1916; Torres-Mejia *et al.*, 2012; Ruiz-C. *et al.*, 2011).
- Astyanax maximus*** (Steindachner, 1876)
Tetragopterus maximus Steindachner, 1876b:593 [43], Pl. 7. Type locality: Tullumayo, Monterico, Peru. Syntypes: (several) NMW 57662–63 (1, 2).
Tetragopterus alosa Günther, 1876:399. Type locality: Peru. Syntypes: BMNH 1875.10.4.24–25 (2). Distribution: 316 (Steindachner, 1876b).
- Astyanax megaspilura*** Fowler, 1944
Astyanax megaspilura Fowler, 1944:228, figs. 1–2. Type locality: Rio Jurubidá, Nuquí, Colombia. Holotype: ANSP 71418. Distribution: 301 (Fowler, 1944).
- Astyanax metae*** Eigenmann, 1914
Astyanax metae Eigenmann, in Eigenmann, Henn, Wilson, 1914:11. Type locality: Rio Negro, Villavicencio. [Colombia]. Holotype: FMNH 56640. Distribution: 305, 306, 307 (Eigenmann, 1914; Schultz, 1944).
 Remarks: Validity of the species is questioned. Listed both as a provisional synonym of *Astyanax maximus* and as a valid species in Lima *et al.* (2003:111).
- Astyanax mexicanus*** (De Filippi, 1853)
Tetragopterus mexicanus De Filippi, 1853:166 [3]. Type locality: Mexico. Syntypes: MZUT 159 (3), ZMUC 941–942 (2).
Tetragopterus fulgens Bocourt, 1868:62. Type locality: Province de Cuernovaca. [Mexico]. Syntypes: MNHN 0000-5194 (2).
Tetragopterus nitidus Bocourt, 1868:62. Type locality: Cuernavaca, Mexico. Syntypes: MNHN 0000-5191 (3). *Astyanax mexicanus* (De Filippi, 1853), provisional synonym. Distribution: 169 (De Filippi, 1853; Schmitter-Soto, 2017).

Astyanax microlepis Eigenmann, 1913

Astyanax microlepis Eigenmann, 1913:24. Type locality: Piedra Moler, Colombia.
Holotype: FMNH 56209.

Distribution: 302 (Eigenmann, 1913; Torres-Mejia *et al.*, 2012).

Astyanax microschemos Bertaco, Lucena, 2006

Astyanax microschemos Bertaco, Lucena, 2006:54, figs. 2–3. Type locality: córrego Palmital, rio Itapemirim drainage, Iúna, Espírito Santo, Brazil, approx. 20°21'S, 41°31'W. Holotype: MCP 37569.

Distribution: 328 (Bertaco, Lucena, 2006).

Astyanax minor Garavello, Sampaio, 2010

Astyanax minor Garavello, Sampaio, 2010:854, fig. 5. Type locality: Rio Mato Grande, Águas Claras, Piraquara, Paraná, Brazil. Holotype: MHNCI 3028.

Distribution: 346 (Garavello, Sampaio, 2010).

Astyanax myersi (Fernández-Yépez, 1950)

Poecilurichthys myersi Fernández-Yépez, 1950b:15, Pl. 3 (fig. 1). Type locality: Río Autana, Hoya del Orinoco, Venezuela. Holotype: MHNLS 1127.

Distribution: 307 (Fernández-Yépez, 1950b).

Astyanax nasutus Meek, 1907

Astyanax nasutus Meek, 1907:108. Type locality: Lago Managua, Managua, Nicaragua. Holotype: FMNH 5909.

Distribution: 205 (Meek, 1907; Bussing, 2008).

Astyanax nicaraguensis Eigenmann, Ogle, 1907

Astyanax rutilus nicaraguensis Eigenmann, Ogle, 1907:23. Type locality: Nicaragua. Holotype: USNM 55653.

Astyanax aeneus var. *costaricensis* Meek, 1914:105. Type locality: Guapilis, Parismina, Costa Rica. Syntypes: FMNH 6349 (1), 7866–73 (5, 39, 15, 2, 6, 61, 49, 25); UMMZ 162475 (5). Synonymy proposed by Schmitter-Soto, 2017.

Distribution: 205 (Bussing, 2008).

Astyanax nobre Dagosta, Marinho, 2022

Astyanax nobre Dagosta, Marinho, 2022:3, figs. 1–4. Type locality: Brazil, Mato Grosso State, Municipality of Nobres, rio Salobra at Recanto Ecológico Lagoa Azul, Bom Jardim district, tributary of rio Cuiabá, rio Paraguai basin, 14°35'43.2"S 55°58'09.6"W. Holotype: MZUSP 125905.

Distribution: 343 (Dagosta, Marinho, 2022).

Astyanax novae Eigenmann, 1911

Astyanax bimaculatus var. *novae* Eigenmann, 1911c:175, Pl. 7 (fig. 2). Type locality: Rio Sapon, Prazeres, Bahia. [Brazil]. Holotype: CAS 73206. [Catalog number of type modified according to Freitas *et al.* (2015)].

Distribution: 324, 327 (Eigenmann, 1911c; Freitas *et al.*, 2015).

Astyanax obscurus (Hensel, 1870)

Tetragonopterus obscurus Hensel, 1870:86. Type locality: Rio Cadea oberhalb des grossen Wasserfalles. [Rio Grande do Sul, Brazil]. Syntypes: ZMB 7478 (3). [See information about syntypes in Bertaco, Lucena (2010)].

Distribution: 334 (Bertaco, Lucena, 2010).

Remarks: Species redescribed by Bertaco, Lucena (2010).

Astyanax ocotal Valdez-Moreno, Rodiles-Hernández, Schmitter Soto, 2017

Astyanax ocotal Valdez-Moreno, Rodiles-Hernández, Schmitter Soto, in Schmitter-Soto, 2017:66, figs. 5, 39, 40. Type locality: “Laguna Ocotal, Lacandon region, elev. 3100 ft [sic; actually, it is only 840 m], lies ca. 75 airline km ESE of Ocosingo”, northern Chiapas, Mexico. Holotype: UMMZ 250292.

Distribution: 174 (Schmitter-Soto, 2017).

Astyanax orstedii (Lütken, 1875)

Tetragopterus orstedii Lütken, 1875a:229 [40]. Type locality: Rio S. Juan, Central-Amerika. [Nicaragua]. Lectotype ZMUC 948. [Designated by Schmitter-Soto, 2017:1400].

Astyanax albeolus Eigenmann, 1908:97. Type locality: Rio Machuca, Rio Siguire, Costa Rica. Holotype: FMNH 6241. Synonymy proposed by Schmitter-Soto, 2017.

Astyanax regani Meek, 1909:207. Type locality: Las Cañas, Costa Rica. Holotype: FMNH 6257. Synonymy proposed by Schmitter-Soto, 2017.

Distribution: 204, 205, 206 (Schmitter-Soto, 2017).

Remarks: Species name spelled *Örstedii* in Lütken (1875a:229).

Astyanax orthodus Eigenmann, 1907

Astyanax orthodus Eigenmann, in Eigenmann, Ogle, 1907:27. Type locality: Truando, Colombia. Holotype: USNM 55655.

Distribution: 301 (Eigenmann, 1907; Ruiz-C. *et al.*, 2011).

Astyanax panamensis (Günther, 1864)

Tetragopterus panamensis Günther, 1864:324. Type locality: Pacific coast of Panama, Guatemala. Lectotype BMNH 1864.1.26.415. [Designated by Schmitter-Soto, 2017:1402].

Tetragopterus fischeri Steindachner, 1879b:151. Type locality: Mamoni, Panama. Syntypes: (several) NMW. Synonymy based on Schmitter-Soto, 2017:1400.

Astyanax grandis Meek, Hildebrand, 1912:67. Type locality: Rio Juan Diaz, Panama. Holotype: FMNH 7571. Synonymy proposed by Schmitter-Soto, 2017.

Astyanax ruberrimus Eigenmann, 1913:25. Type locality: Istmina, Colombia. Holotype: FMNH 56122. Synonymy proposed by Schmitter-Soto, 2017:72.

Distribution: 206, 208, 209, 210 (Schmitter-Soto, 2017).

Astyanax paranahybae Eigenmann, 1911

Astyanax paranahybae Eigenmann, 1911c:177, Pl. 8 (fig. 1). Type locality: Rio Paranahyba. [Brazil]. Holotype: FMNH 54714.

Distribution: 344 (Vari, Castro, 2007; Mirande, Koerber, 2015).

Remarks: Vari, Castro (2007:159) questioned the assignment of the species to *Astyanax*. Mirande, Koerber (2015a) questioned the occurrence of this species in Argentina.

Astyanax pardensis Salgado, 2021

Astyanax pardensis Salgado, 2021b:3, fig. 1. Type locality: Panelinha river, tributary of the Panelão river, Pardo river drainage, Camacan, Bahia, Brazil, 15°22'24"S, 39°29'59"W. Holotype: MNRJ 22928.

Distribution: 328 (Salgado, 2021b).

Astyanax petenensis (Günther, 1864)

Tetragopterus petenensis Günther, 1864:326. Type locality: Lake Peten [Guatemala]. Western Ecuador. [Lectotype from: Lake Petén Itzá, Guatemala]. Lectotype:

BMNH 1864.1.26.374 (1). [Designated by Schmitter-Soto, 2017:1404]. Other three specimens from original type series are from Ecuador and not conspecific with *Astyanax petenensis*.

Distribution: 174 (Schmitter-Soto, 2017).

Astyanax pirabitira Lucena, Bertaco, Berbigier, 2013

Astyanax pirabitira Lucena, Bertaco, Berbigier, 2013:227, figs. 1–2. Type locality: Brazil, Rio Grande do Sul, border between Cambará do Sul and Bom Jesus, rio das Antas, rio Jacuí drainage, laguna dos Patos system, ca. 28°50'S, 50°06'W. Holotype: MCP 47707.

Distribution: 334 (Lucena *et al.*, 2013).

Astyanax pirapuan Tagliacollo, Britzke, Silva, Benine, 2011

Astyanax pirapuan Tagliacollo, Britzke, Silva, Benine, 2011:41, figs. 1–2. Type locality: Brazil: Chapada dos Guimarães, Mato Grosso State, Rio Aricá-Mirim, Rio Cuiabá basin, 15°46'04"S 55°30'44"W. Holotype: MNRJ 37621.

Distribution: 343 (Tagliacollo *et al.*, 2011).

Astyanax poetzschkei Ahl, 1932

Astyanax (Poecilurichthys) poetzschkei Ahl, 1932:124, figure. Type locality: Amazonenstrom. [Amazon River]. Holotype: ZMB 20826.

Distribution: (Ahl, 1932).

Remarks: Amazon River basin, but exact distribution unknown.

Astyanax procerus Lucena, Castro, Bertaco, 2013

Astyanax procerus Lucena, Castro, Bertaco, 2013:541, figs. 4–5. Type locality: Brazil, Rio Grande do Sul State, Nicolau Vergueiro, arroio Quebra Dentes, 28°36'09"S 52°27'03"W. Holotype: MCP 47002.

Distribution: 334 (Lucena *et al.*, 2013).

Astyanax rioverde Lozano-Vilano, Schmitter-Soto, 2017

Astyanax rioverde Lozano-Vilano, Schmitter-Soto, in Schmitter-Soto, 2017:75, figs. 5(a), 6(b), 8(b), 12, 44. Type locality: ditch 4.8 mi [7.7 km] south of Rioverde, San Luis Potosí, Mexico. Holotype: UMMZ 250293.

Distribution: 167 (Schmitter-Soto, 2017).

Astyanax robustus Meek, 1912

Astyanax robustus Meek, 1912:69. Type locality: Virginia, Costa Rica. [Virginia River]. Type-locality not precisely located. There are two localities named Virginia in Costa Rica, located far apart. Holotype: FMNH 7682.

Distribution: (Meek, 1912).

Remarks: Considered a synonym of *Bryconamericus scleroparius* (Regan 1908) (= *Eretmobrycon scleroparius*) by Meek (1914:107) and a valid species by Lima *et al.*, 2003:112.

Astyanax rupestris Zanata, Burger, Camelier, 2018

Astyanax rupestris Zanata, Burger, Camelier, 2018:479, figs. 5–6. Type locality: Brazil, Bahia State, Chapada Diamantina, Andaraí, Igatu, rio Coisa Boa, tributary of Rio Piabas, Rio Paraguaçu basin, 12°53'55"S, 41°19'01"W, elevation 710 m a.s.l. Holotype: MZUSP 89567.

Distribution: 328 (Zanata, Burger, Camelier, 2018).

Astyanax rupununi Fowler, 1914

Astyanax rupununi Fowler, 1914a:242, fig. 6. Type locality: Rupununi River, British

- Guiana. [Guyana]. Holotype: ANSP 39328.
 Distribution: 310 (Fowler, 1914a).
 Remarks: Species revalidated and redescribed by Garutti (2003:2).
- Astyanax saltor*** Travassos, 1960
Astyanax saltor Travassos, 1960b:17, figs. 1–2. Type locality: Rio Cachimbo, abaixo do salto, Estado do Pará. [Brazil]. Holotype: MNRJ 9199.
 Distribution: 320 (Travassos, 1960).
- Astyanax salvatoris*** Valdez-Moreno, Lozano-Vilano, Schmitter-Soto, 2017
Astyanax salvatoris Valdez-Moreno, Lozano-Vilano, Schmitter-Soto, in Schmitter-Soto, 2017:77, figs. 1, 12, 45. Type locality: “ojo de agua” (spring) of Tamazulapan, uppermost eastern Balsas drainage, Oaxaca, Mexico. Holotype: UANL 22296.
 Distribution: 169 (Schmitter-Soto, 2017).
- Astyanax scabripinnis*** (Jenyns, 1842)
Tetragonopterus scabripinnis Jenyns, 1842:125, Pl. 23 (figs. 3, 3a). Type locality: Rio de Janeiro. [Brazil]. Holotype: BMNH 1917.7.14.15.
 Distribution: 352 (Bertaco, Lucena, 2006).
- Astyanax scintillans*** Myers, 1928
Astyanax scintillans Myers, 1928:88. Type locality: Playa Matepalma, Río Orinoco, Venezuela. Syntypes: CAS 39493 (2).
 Distribution: 307 (Myers, 1928).
- Astyanax serratus*** Garavello, Sampaio, 2010
Astyanax serratus Garavello, Sampaio, 2010:858, fig. 7. Type locality: Rio da Várzea, Agudos do Sul, Paraná, Brazil. Holotype: MHNCI 12346.
 Distribution: 346 (Garavello, Sampaio, 2010).
- Astyanax siapae*** Garutti, 2003
Astyanax siapae Garutti, 2003:4, fig. 3. Type locality: Amazonas, Venezuela, rio Siapa (afiuente do rio Casiquiare), campamento Siapa II (01° 40' a 01° 41'N, 64° 22' a 64° 28'W). Holotype: MBUCV-V-29133.
 Distribution: 308 (Garutti, 2003).
- Astyanax sincora*** Burger, Carvalho, Zanata, 2019
Astyanax sincora Burger, Carvalho, Zanata, 2019:370, figs. 1–2. Type locality: Brazil, Bahia State, Chapada Diamantina, Mucugê, Fazenda Tremedal, córrego Tremedal, tributary of rio Paraguaçu, 13° 10' 22" S 41° 20' 53" W, 1083 m a.s.l. Holotype: MZUSP 120747.
 Distribution: 328 (Burger *et al.*, 2019).
- Astyanax stilbe*** (Cope, 1870)
Tetragonopterus stilbe Cope, 1870:559. Type locality: Para. [Brazil]. Holotype: ANSP 8085. [Fowler, 1907:431, fig. 34; Böhlke, 1984:54].
 Distribution: (Cope, 1870).
 Remarks: From Pará, Brazil, but distribution is imprecise.
- Astyanax superbus*** Myers, 1942
Astyanax superbus Myers, 1942:92, fig. 2. Type locality: Small brook tributary to the Río Tamanaco (a tributary of the Rio Paye; Rio Portuguesa drainage) at Camoruco, 20 kilometers northeast of San Carlos, Venezuela. Holotype: SU 36489.
 Distribution: 304 (Myers, 1942).

Astyanax symmetricus Eigenmann, 1908

Astyanax symmetricus Eigenmann, 1908:95. Type locality: Tabatinga. [Brazil].
Holotype: MCZ 20768.

Distribution: 316 (Eigenmann, 1908).

Astyanax tamiahua Schmitter-Soto, 2017

Astyanax tamiahua Schmitter-Soto, 2017:79, figs. 12, 46. Type locality: Río Cucharas near Tamiahua, northern Veracruz, Mexico. Holotype: UMMZ 250294.

Distribution: 167 (Schmitter-Soto, 2017).

Astyanax taurorum Lucena, Zaluski, Lucena, 2017

Astyanax taurorum Lucena, Zaluski, Lucena, 2017:2, figs. 1, 3, 4. Type locality: Brazil, Rio Grande do Sul, Bom Jesus. Tributary of dos Touros River, ca. 4 km northeastern of the road BR-285, Pelotas River drainage, 28°41'06"S, 50°12'51"W, 1056m a.s.l. Holotype: MCP 49468.

Distribution: 333 (Lucena, Zaluski, Lucena, 2017).

Astyanax tehuacanensis Schmitter-Soto, 2017

Astyanax tehuacanensis Schmitter-Soto, 2017:81: (b), 10(b), 12, 47. Type locality: Río Salado (or Zapotitlán), 22 mi (35.4 km) south of Tehuacán, Papaloapan basin, Puebla, central Mexico. Holotype: UMMZ 250295.

Distribution: 137 (Schmitter-Soto, 2017).

Astyanax totae Ferreira Haluch, Abilhoa, 2005

Astyanax totae Ferreira Haluch, Abilhoa, 2005:384, figs. 2–5. Type locality: Brazil, Paraná, Balsa Nova, distrito do Bugre, rio Cascata, tributary of rio Tortuoso, an affluent of rio Iguaçu, 25°29'S, 49°39'W. Holotype: MHNCI 10305.

Distribution: 346 (Ferreira Haluch, Abilhoa, 2005; Vera Alcaraz *et al.*, 2009).

Astyanax trierythropterus Godoy, 1970

Astyanax (Astynax) trierythropterus Godoy, 1970:276, figs. 1–4. Type locality: Rio Mogi Guassu, Cachoeira de Emas, a juzante da barragem. [Brazil]. Holotype: EEBP 706 [probably lost, see Sabaj, 2020 for comments on EEBP collection].

Distribution: 344 (Godoy, 1970).

Astyanax turmalinensis Triques, Vono, Caiafa, 2003

Astyanax turmalinensis Triques, Vono, Caiafa, 2003:146, fig. 1. Type locality: córrego Divisão, tributary of right side of the Rio Jequitinhonha, vila de Peixe-Crú, Município de Turmalina, Minas Gerais State, Brazil, 17°07'S, 42°57'W. Holotype: DZUFMG 005.

Distribution: 327, 328 (Triques *et al.*, 2003; Triques, Queiroz, 2010).

Astyanax unitaeniatus Garutti, 1998

Astyanax unitaeniatus Garutti, 1998:116, fig. 1. Type locality: Brasil, Goiás: Iaciara, Ribeirão Macambira (aproximadamente 14°08'S, 46°37'W), junto à ponte na rodovia GO-112. Holotype: MZUSP 40542.

Distribution: 324 (Garutti, 1998).

Astyanax utiariti Bertaco, Garutti, 2007

Astyanax utiariti Bertaco, Garutti, 2007:26, figs. 1–2. Type locality: rio Papagaio at Pubi beach, tributary of rio Juruena, upper rio Tapajós drainage, Sapezal, Mato Grosso, Brazil, 13°33'35"S 58°24'31"W. Holotype: MCP 40040.

Distribution: 320 (Bertaco, Garutti, 2007).

Astyanax validus Géry, Planquette, Le Bail, 1991

- Astyanax validus* Géry, Planquette, Le Bail, 1991:46, Pl. 15 (fig. 1). Type locality: Rivière Comté, Crique Blanche. [French Guiana]. Holotype: MHNG 2435.77. Distribution: 311 (Géry, Planquette, Le Bail, 1991).
- Astyanax varii*** Zanata, Burger, Vita, Camelier, 2019
Astyanax varii Zanata, Burger, Vita, Camelier, 2019:2, figs 1–3. Type locality: Brazil, Bahia, Ubaitaba, rio Coricó in Fazenda Progresso, near the road BR-330, lower rio de Contas basin, 14°14'50"S 39°22'39"W, 65m above sea level. Holotype: MZUSP 121062. Distribution: 328 (Zanata *et al.*, 2019).
- Astyanax varzeae*** Abilhoa, Duboc, 2007
Astyanax varzeae Abilhoa, Duboc, 2007:45, figs. 2–4. Type locality: Brazil, Paraná, Tijucas do Sul, rio São João, rio da Várzea headwaters, an affluent of rio Negro, upper rio Iguaçu basin, approx. 25°55'S, 49°10'W. Holotype: MHNCI 11688. Distribution: 346 (Abilhoa, Duboc, 2007).
- Astyanax venezuelae*** Schultz, 1944
Astyanax venezuelae Schultz, 1944:359, fig. 54. Type locality: Río Torbes, 1 km. above Táriba, Orinoco system. [Venezuela]. Holotype: USNM 121449. Distribution: 306 (Schultz, 1944).
- Astyanax vermilion*** Zanata, Camelier, 2009
Astyanax vermilion Zanata, Camelier, 2009:176, figs. 1–3. Type locality: Brazil, Bahia State, Floresta Azul, rio Salgado under bridge on road BA 130, rio Cachoeira drainage, 14°51'18.0"S, 39°39'41"W. Holotype: MZUSP 101243. Distribution: 328 (Zanata, Camelier, 2009).
- Astyanax villwocki*** Zarske, Géry, 1999
Astyanax villwocki Zarske, Géry, 1999c:200, figs. 1–2. Type locality: Rio Pacal, Rio Pachitea basin, Departamento Ucayali, Peru. Holotype: MTD F 22400. Distribution: 317 (Zarske, Géry, 1999c).
- Astyanax viridis*** Salgado, 2021
Astyanax viridis Salgado, 2021a:2, figs. 1C, D, E, F, 3, 4, 6, 7. Type locality: Santo Antonio stream, Duque de Caxias, Rio de Janeiro, Brazil, 22°36'01"S, 43°15'57"W. Holotype: LEP-UFRRJ 0799. Distribution: 328, 329, 330, 352 (Salgado, 2021a).

Species inquirendae (Astyanax)

- Astyanax bimaculatus* var. *borealis* Eigenmann, 1908:96. Type locality: Rio Magdalena and Cauca. [Colombia]. Syntypes: whereabouts unknown.
 Remarks: Taxonomic status discussed by Lucena, Soares (2016:120).
- Tetragonopterus oaxacanensis* Bocourt, 1868:62. Type locality: Oaxaca. [Mexico]. Type(s): whereabouts unknown. [Schmitter-Soto, 2017:1356]].
 Remarks: Status of species discussed by Schmitter-Soto, 2017:1414.
- Tetragonopterus orbignyanus* Valenciennes, in Cuvier, Valenciennes, 1850:147. Type locality: les Missions jusq' à Buénos-Ayres, dans le Parana, l'Uruguay et la Plata. [Argentina]. Syntypes: MNHN 0000-4530 (1), A-9816 (2) to A-9817 (1) and 9818 (1). [All in poor condition (Lucena, Soares (2016:118))].
 Remarks: Taxonomic status discussed by Lucena, Soares (2016:118).

Tetragonopterus paucidens Ulrey, 1894:611. Type locality: Itaituba. [Brazil]. Holotype: whereabouts unknown.

Remarks: Species *inquirenda* in *Astyanax* in Lima *et al.*, 2003:114.

ATOPOMESUS Myers, 1927

MMF Marinho

Atopomesus Myers, 1927:112. Type species: *Atopomesus pachyodus* Myers, 1927. Type by original designation. Gender: Masculine.

Atopomesus pachyodus Myers, 1927

Atopomesus pachyodus Myers, 1927:112. Type locality: Brazil: Cucuhy, Rio Negro, on the Colombian Border. Holotype: CAS 41736.

Distribution: 314, 318 (Myers, 1927; Esguícero, Castro, 2016).

Remarks: Redescription and comments on its phylogenetic relationships in Esguícero, Castro (2016).

ATTONITUS Vari, Ortega, 2000

P Camelier

Attonitus Vari, Ortega, 2000:114. Type species: *Attonitus irisae* Vari, Ortega, 2000. Type by original designation. Gender: Masculine.

Attonitus bounites Vari, Ortega, 2000

Attonitus bounites Vari, Ortega, 2000:123, fig. 2. Type locality: Peru, Departamento de Puno, Provincia Carabaya, Zona Reservada Tambopata Candamo, Río Candamo (13°24'S, 70°01'W). [Tributary of Rio Madre de Dios, upper Rio Madeira system, southeastern Peru]. Holotype: MUSM 11840.

Distribution: 318 (Vari, Ortega, 2000).

Remarks: The species also occurs in the Rio Madre de Dios basin, upper Rio Madeira system, in northeastern Bolivia (non-type specimens) (Vari, Ortega, 2000:128).

Attonitus ephimeros Vari, Ortega, 2000

Attonitus ephimeros Vari, Ortega, 2000:129, figs. 1, 4. Type locality: Peru, Departamento de Cusco, Provincia La Convencion, Río Urubamba basin, Río Picha, Puerto Huallana, Quebrada Mapichiriato (11°50'S, 73°20'W). [Tributary of Rio Ucayali basin, Peru]. Holotype: MUSM 11501.

Distribution: 317 (Vari, Ortega, 2000).

Attonitus irisae Vari, Ortega, 2000

Attonitus irisae Vari, Ortega, 2000:133, fig. 5. Type locality: Peru, Departamento de Huanuco, Provincia Pachitea, mouth of Río Huambo, where it empties into Río Pachitea (approximately 9°39'S, 74°56'W); 260 m elevation. [Tributary of Rio Ucayali basin, Peru]. Holotype: MUSM 10759.

Distribution: 317 (Vari, Ortega, 2000).

AULIXIDENS Böhlke, 1952

P Camelier

Aulixidens Böhlke, 1952:775. Type species: *Aulixidens eugeniae* Böhlke, 1952. Type by original designation. Gender: Masculine.

***Aulixidens eugeniae* Böhlke, 1952**

Aulixidens eugeniae Böhlke, 1952:775. Type locality: Mouth of the Rio Curamoni (or Curamuni, as Ternetz noted how the Indians pronounced it), Canal de Casiquiare, Venezuela. Curamoni is located approximately at 2° 38'N, 66° 12'W. [Amazonas state, Venezuela]. Holotype: SU 16940.

Distribution: 308 (Böhlke, 1952).

AXELRODIA Géry, 1965**FCT Lima**

Axelrodia Géry, 1965a:31. Type species: *Axelrodia fowleri* Géry, 1965. Type by original designation. Gender: Feminine.

***Axelrodia lindeae* Géry, 1973**

Axelrodia lindeae Géry, 1973:111, figs. 18–19. Type locality: rio Curucamba, about 9 km north of Obidos (3 km from the Obidos-airport), lower Amazon basin. [Brazil, Pará, Igarapé Curuçamba, approximately 1° 50'3"S, 55° 29'25"W]. Holotype: MHNG 2229.08.

Distribution: 314, 315, 316, 320 (Géry, 1965c; Lima *et al.*, 2013; Ferreira *et al.*, 2007; Ohara *et al.*, 2017).

Remarks: See account on the species in Lima *et al.* (2013:224–225) and Ohara *et al.* (2017:162).

***Axelrodia riesei* Géry, 1966**

Axelrodia riesei Géry, 1966a:112, figs. 1, 2 (mid.), 3–4, 5 (mid.). Type locality: upper rio Méta basin, east of Villavicencio, Colombia. [Colombia, Depto. Meta]. Holotype: USNM 207923.

Distribution: 307 (Géry, 1966a).

***Axelrodia stigmatias* (Fowler, 1913)**

Hyphessobrycon stigmatias Fowler, 1913b:547, fig. 14. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. [Brazil, Rondônia]. Holotype: ANSP 39231.

Axelrodia fowleri Géry, 1965a:33, Pl. 4 (fig. 14). Type locality: environs de Iquitos, Haute Amazonie. [Peru, Depto. Loreto]. Holotype: SMF 7212.

Distribution: 316 (Géry, 1965a; Lima *et al.*, 2013).

Remarks: See account on the species in Galvis *et al.* (2006:186–187) and Lima *et al.* (2013:224–225).

BARIO Myers, 1940**RC Benine**

Entomolepis Eigenmann, 1917:63. Type species: *Tetragonopterus steindachneri* Eigenmann, 1893. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Entomolepis* Brady, 1889 in Crustacea. Replaced by *Bario* Myers, 1940.

Bario Myers, 1940:35. Type species: *Tetragonopterus steindachneri* Eigenmann, 1893. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Entomolepis* Eigenmann, 1917, preoccupied by *Entomolepis*

Brady, 1889 in Crustacea.

Bario steindachneri (Eigenmann, 1893)

Tetragonopterus lineatus Steindachner, 1891:173. Type locality: Amazonenstrom bei Iquitos. Syntypes: NMW 57589–90 (2, 2). Preoccupied by *Tetragonopterus lineatus* Perugia, (Apr.) 1891; replaced by *Tetragonopterus steindachneri* Eigenmann, 1893. *Tetragonopterus steindachneri* Eigenmann, 1893:53. Type locality: Iquitos. [Peru]. Syntypes: NMW 57589; NMW 57590. Distribution: 316*, 318*, 319*, 320*, 321* (R. Benine, pers. obs.; based on direct examination of material available at MZUSP and INPA fish collections). Remarks: Replacement for *Tetragonopterus lineatus* Steindachner, 1891 [not 1892].

BOEHLKEA Géry, 1966

VA Bertaco

Boehlkea Géry, 1966b:212. Type species: *Boehlkea fredcochui* Géry, 1966. Type by original designation. Gender: Feminine.

Boehlkea fredcochui Géry, 1966

Boehlkea fredcochui Géry, 1966b:212, figs. 1–2, 4–6. Type locality: “Upper Amazon”. [Colombia]. Holotype: ANSP 111675. Distribution: 312, 313 (Bertaco, Malabarba, 2010).

Boehlkea orcesi (Böhlke, 1958)

Hemibrycon orcesi Böhlke, 1958a:25, Pl. 2 (fig. 4). Type locality: Río Macuma. [Ecuador]. Holotype: USNM 164064. Distribution: 312, 313 (Bertaco, Malabarba, 2010). Remarks: Species redescribed in *Hemibrycon* by Román-Valencia *et al.* (2007). Species transferred to *Boehlkea* by Bertaco, Malabarba (2010).

Boehlkea weitzmani Soares, Bertaco, Ito, Zuanon, 2017

Boehlkea weitzmani Soares, Bertaco, Ito, Zuanon, 2017:2, figs. 1–3. Type locality: Brazil, Amazonas State, Rio Japurá, stream at 500 meter of the left margin of the river, 01°42'52"S, 69°07'41"W. Holotype: INPA 53202. Distribution: 316 (Soares *et al.*, 2017).

BRACHYCHALCINUS Boulenger, 1892

RE Reis

Brachyhalcinus Boulenger, 1892:11. Type species: *Brachyhalcinus retrospectiva* Boulenger, 1892. Type by monotypy. Gender: Masculine.

Brachyhalcinus copei (Steindachner, 1882)

Stethaprion copei Steindachner, 1882c:180. Type locality: Tabatinga. [Brazil]. Syntypes: NMW (3, apparently lost). Distribution: 316, 318, 319 (Reis, 1989).

Brachyhalcinus nummus Böhlke, 1958

Brachyhalcinus nummus Böhlke, 1958a:74, Pl. 4 (fig. 5). Type locality: Chicherota. [Ecuador]. Holotype: USNM 164019. Distribution: 316, 317 (Reis, 1989).

Brachyhalcinus orbicularis (Valenciennes, 1850)

Tetragonopterus orbicularis Valenciennes, in Cuvier, Valenciennes, 1850:138. Type locality: l'Essequibo. [Guyana]. Lectotype: MNHN 0000-6343. [Designated by Reis (1989:62)].

Brachyhalcinus guianensis Boeseman, 1952:303. Type locality: Itabu Creek, New River drainage, British Guiana. [Guyana]. Lectotype: FMNH 51535. [Designated by Böhlke (1958a:81)].

Distribution: 310, 311 (Reis, 1990).

Brachyhalcinus parnaibae Reis, 1989

Brachyhalcinus parnaibae Reis, 1989:77, fig. 38. Type locality: Lagoas, Serra das Confusões, rio Parnaíba system, Caracol, Piauí, Brazil. Holotype: MZUSP 36594.

Distribution: 325 (Reis, 1990).

Brachyhalcinus reisi Garcia-Ayala, Ohara, Pastana, Benine, 2017

Brachyhalcinus reisi Garcia-Ayala, Ohara, Pastana, Benine, 2017:565, figs. 1–4. Type locality: Brazil, Pará, Altamira, rio Curuá, 25 km upstream from PCH Salto do Curuá, a tributary of rio Xingu basin, 8°55'46"S, 54°57'38"W. Holotype: MZUSP 121267.

Distribution: 322 (Garcia-Ayala *et al.*, 2017).

Brachyhalcinus retrospina Boulenger, 1892

Brachyhalcinus retrospina Boulenger, 1892:12, Pl. 2 (fig. 2). Type locality: Santa Cruz. [Mato Grosso, Brazil]. Lectotype: BMNH 1892.4.20.36. [Designated by Eigenmann, Myers (1929:508)].

Distribution: 343 (Reis, 1990).

Brachyhalcinus signatus Garcia-Ayala, Benine, 2020

Brachyhalcinus signatus Garcia-Ayala, Benine, 2020:3, fig. 1. Type locality: Brazil, Pará, Oriximiná, Rio Trombetas, igarapé Caxipacoré, above Cachoeira Porteira, 0°33'32"S, 56°45'04"W. Holotype: INPA 59409.

Distribution: 315 (Garcia-Ayala, Benine, 2020).

BRITTANICHTHYS Géry, 1965**MMF** Marinho

Brittanichthys Géry, 1965b:13. Type species: *Brittanichthys axelrodi* Géry, 1965. Type by original designation. Gender: Masculine.

Brittanichthys axelrodi Géry, 1965

Brittanichthys axelrodi Géry, 1965b:22, figs. 1–4 + 1 in color. Type locality: Rio Negro basin (Brazil), Praio (= beach) Bulufu on the Rio Itu; the collecting place is about 80 km. upstream from the meeting with Rio Negro, about 0°30'S, 63°–30'W. Holotype: USNM 198132.

Distribution: 314 (Géry, 1965b).

Brittanichthys myersi Géry, 1965

Brittanichthys myersi Géry, 1965b:62, figs. 5–8. Type locality: Rio Negro, Brazil, unnamed inlet on shore, at about 13 km. west of junction with the Amazon, 10 km. west of Manaus; about 3°10'S, 59°55'W. Holotype: USNM 198131.

Distribution: 314 (Géry, 1965b).

Remarks: The diagnosis proposed by Géry (1965b) does not seem to be persuasiveto

distinguish *Brittanichthys myersi* from *B. axelrodi*. A taxonomic revision is necessary to check its validity.

BRYCONACIDNUS Myers, 1929

AL Netto-Ferreira

Bryconacidnus Myers, in Eigenmann, Myers, 1929:545. Type species: *Hyphessobrycon ellisi* Pearson, 1924. Type by original designation. Gender: Masculine.

Bryconacidnus ellisiae (Pearson, 1924)

Hyphessobrycon ellisi Pearson, 1924:39, Pl. 10 (fig. 2). Type locality: Espia. [Espia, is described in Pearson (1924) as a locality near the confluence of the La Paz and Miguilla rivers in La Paz State, Bolivia, forming the Río Bopi, itself a major former of the Río Beni, along with Río Cochabamba]. Syntypes: (55): CAS 47167 (37), SU 24660 (3), UMMZ 66505 (14), USNM 117544 (1), plus additional material.

Distribution: 312, 337 (Lima *et al.*, 2003).

Remarks: Pearson (1924) dedicated the name to Mrs. Marion Durbin Ellis and therefore the name should be emended into *ellisiae* Bragança *et al.* (2016). Although samples from other localities in Peru and Ecuador are assigned to this species, a thorough revision of the genus is necessary.

Bryconacidnus hemigrammus (Pearson, 1924)

Bryconamericus hemigrammus Pearson, 1924:44. Type locality: Popoi River, Upper Beni. [Although Pearson (1924) described several of the main localities sampled in Bolivia, none is presented as “Río Popoi”. Downstream the confluence of the rivers Bopi with Río Cochabamba, forming the Río Beni, there is a small village named Popoy (approx. 15°38'24”S, 67°09'56”W), near which Pearson may have sampled during the Mulford Expedition]. Syntypes: CAS 39616 (7), UMMZ 66499 (4).

Distribution: 312 (Lima *et al.*, 2003).

Remarks: Although samples from other localities in Peru and Ecuador are assigned to this species, a thorough revision of the genus is necessary.

Bryconacidnus hypopterus (Fowler, 1943)

Bryconamericus hypopterus Fowler, 1943d:241, fig. 20. Type locality: Florencia, Rio Ortegusa, Colombia. Holotype: ANSP 70505.

Distribution: 313 (Fowler, 1943d).

Remarks: Generic assignment based on Thomaz *et al.* (2015) based on poor taxon sampling of the clade including *Knodus* and other small genera of Stevardiinae; see criticism in Menezes, Netto-Ferreira (2019).

Bryconacidnus paipayensis (Pearson, 1929)

Hemigrammus paipayensis Pearson, in Eigenmann, Myers, 1929:533. Type locality: Paipay, Rio Crisnejas. [In the original description, specimens from Río Pusoc (a misspelling form of Río Púsac, right bank tributary of Río Marañon near 06°58'10”S, 78°00'01”W), and from Paipay, Rio Crisnejas (misspelling of Pay Pay – 07°20'33”S, 77°56'4”W) are listed, but only those from the latter locality constitute the type series of the species]. Syntypes: CAS 44467 (now 1). Additional original material: CAS 44468 (now 216), ZMA 114207 (1). [Originally listed as “Many” in IU 17643: currently a single specimen is catalogued under CAS 44467

(ex-IU 17643) and remaining syntypes were removed to CAS 44468 (216), and ZMA 114207 (1)].

Distribution: 316, 317 (Lima *et al.*, 2003).

Remarks: Although samples from other localities in Peru and Ecuador are assigned to this species, a thorough revision of the genus is necessary.

Bryconacidnus pectinatus (Vari, Siebert, 1990)

Bryconamericus pectinatus Vari, Siebert, 1990:517, figs. 1–5. Type locality: Peru, Departamento Madre de Dios, Provincia Manú, Parque Nacional de Manú, second large quebrada along Trail 1 leading to the east from Pakitza, tributary of Río Manú (approx. 11°50'S, 71°21'W). Holotype: MUSM 2057.

Distribution: 318 (Vari, Siebert, 1990).

Remarks: Generic assignment based on Thomaz *et al.* (2015), however based on poor taxon sampling of the clade including *Knodus* and other small genera of Stevardiinae; see criticism in Menezes, Netto-Ferreira (2019), after Weitzman *et al.* (2005:350) tentatively transferred this species to *Knodus*.

BRYCONAMERICUS Eigenmann, 1907

A Hirschmann, LR Malabarba

Bryconamericus Eigenmann, in Eigenmann, McAtee, Ward, 1907:139. Type species:

Bryconamericus exodon Eigenmann, 1907. Type by monotypy. Gender: Masculine.

Odontostoechus Gomes, 1947:7. Type species: *Odontostoechus lethostigmus* Gomes, 1947. Type by original designation. Gender: Masculine. Additional comments: Mirande, 2018 proposed *Odontostoechus* to be resurrected provisionally until the relationships of Diapomini can be analysed more exhaustively.

Hypobrycon Malabarba, Malabarba, 1994:20. Type species: *Hypobrycon maromba* Malabarba, Malabarba, 1994. Type by original designation. Gender: Masculine. Additional comments: Mirande, 2018 proposed *Hypobrycon* to be resurrected provisionally until the relationships of Diapomini can be analyzed more exhaustively.

Nans Mirande, Aguilera, Azpelicueta, 2004:717. Type species: *Nans indefessus* Mirande, Aguilera, Azpelicueta, 2004. Type by original designation. Gender: Masculine. Additional comments: Preoccupied in Annelida. Replaced by *Nantis* Mirande, Aguilera, Azpelicueta, 2006.

Nantis Mirande, Aguilera, Azpelicueta, 2006a:305. Type species: *Nans indefessus* Mirande, Aguilera, Azpelicueta, 2004. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Nans* Mirande, Aguilera, Azpelicueta, 2004. Synonymy with *Bryconamericus* proposed by Thomaz *et al.*, 2015:20. Mirande 2018 proposed *Nantis* to be resurrected provisionally until the relationships of Diapomini can be analysed more exhaustively.

Bryconamericus agna Azpelicueta, Almirón, 2001

Bryconamericus agna Azpelicueta, Almirón, 2001:276, figs. 1–2. Type locality: Argentina, Misiones, Municipio Libertador General, San Martín, arroyo Tabay (27°00'S, 55°10'W), Paraná basin. Holotype: FML 3700.

Distribution: 345 (Azpelicueta, Almirón, 2001).

Bryconamericus alfredae Eigenmann, 1927

Bryconamericus alfredae Eigenmann, 1927:394, Pl. 99 (fig. 1). Type locality: Santa Ana, Rio Urubamba. [Depto. Cuzco, Peru]. Holotype: MCZ 31564.

Distribution: 312 (Eigenmann, 1927).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus bolivianus Pearson, 1924

Bryconamericus bolivianus Pearson, 1924:43, Pl. 10 (fig. 4). Type locality: Río Colorado, Lower Bopi. [Departamento La Paz, Río Beni basin, Bolivia]. Syntypes: (9) CAS 39506 (1), CAS 39507 (4), ?UMMZ 66513 (3). Additional original material: CAS 39508 (2) & CAS 39509 (now 5).

Distribution: 318 (Pearson, 1924).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus bucayensis Román-Valencia, Ruiz-C., Taphorn B., García-A., 2013

Bryconamericus bucayensis Román-Valencia, Ruiz-C., Taphorn B., García-A., 2013:130, figs. 1–2. Type locality: Ecuador, Guayas, Rio Bucay 3 km. upstream from bridge on Naranjal–Machala road, 79° 42'31"W, 02° 39'45"S, 80 m a.s.l. Holotype: MEPN 11125.

Distribution: 301.

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus carlosi Román-Valencia, 2003

Bryconamericus carlosi Román-Valencia, 2003e:478, figs. 1–2. Type locality: Ecuador: Napo, Amazon River basin, Rio Napo, vicinity of Mondana (1° 51'S, 74° 45'W). Holotype: STRI 1321.

Distribution: 313 (Román-Valencia, 2003e).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus charalae Román-Valencia, 2005

Bryconamericus charalae Román-Valencia, 2005:50, figs. 4–6. Type locality: Venezuela, Estado Yaracuy, cuenca del Caribe, afluente del río Aroa, quebrada El Charal, finca El Jaguar, sierra de Aroa, más ó menos 15 km nororiente de Aroa (10° 32'56"N, 68° 58'33"W). Holotype: MHNLS 13504.

Distribution: 304 (Román-Valencia *et al.*, 2013).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus coeruleus Jerep, Shibatta, 2017

Bryconamericus coeruleus Jerep, Shibatta, 2017:2, figs. 1–3. Type locality: Brazil, Paraná State, Marialva, rio Keller, rio Ivaí basin, 23° 38'30.0"S, 51° 51'32.0"W. Holotype: MZUSP 121505.

Distribution: 344 (Jerep, Shibatta, 2017).

Bryconamericus ecai Silva, 2004

Bryconamericus ecai Silva, 2004:58, fig. 3. Type locality: creek in Linha Brasil, parallel to the road from Vila Deodoro to Venâncio Aires (tributary to arroio Castelhana, rio Taquari, laguna dos Patos drainage) (approx. 29° 33'S, 52° 17'W), Venâncio

- Aires, Rio Grande do Sul, Brazil. Holotype: MCP 19608.
Distribution: 334 (Silva, 2004).
- Bryconamericus ecuadorensis*** Román-Valencia, Ruiz-C., Taphorn, Jiménez-Prado, García-Alzate, 2015
Bryconamericus ecuadorensis Román-Valencia, Ruiz-C., Taphorn, Jiménez-Prado, García-Alzate, 2015:244, figs. 1–6. Type locality: Ecuador, Esmeraldas Province, Santiago River, 00° 55' 53.1"N, 78° 51' 28.1"W. Holotype: IUQ 3813.
Distribution: 301 (Román-Valencia *et al.*, 2015).
- Bryconamericus eigenmanni*** (Evermann, Kendall, 1906)
Astyanax eigenmanni Evermann, Kendall, 1906:83, fig. 1. Type locality: Rio Primero, Province of Cordoba. [Argentina]. Holotype: USNM 55570.
Distribution: 339 (Miquelarena, Aquino, 1999).
Remarks: Redescription in Miquelarena, Aquino (1999).
- Bryconamericus exodon*** Eigenmann, 1907
Bryconamericus exodon Eigenmann, in Eigenmann, McAtee, Ward, 1907:139. Type locality: Puerto Max. [Rio Paraguay, Departamento Concepcion, Paraguay]. Holotype: MCZ 29909.
Distribution: 343 (Eigenmann, 1907).
Remarks: Redescription in Serra, Langeani (2006). The holotype was considered to be lost but is currently housed at MCZ 29909 (Netto-Ferreira *et al.*, 2021).
- Bryconamericus grosvenori*** Eigenmann, 1927
Bryconamericus grosvenori Eigenmann, 1927:365, Pl. 99 (fig. 2). Type locality: Rio Comerciato (...) Rio Urubamba basin, Peru. [Depto. Cuzco, Peru]. Holotype: MCZ 31562.
Distribution: 312 (Eigenmann, 1927).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).
- Bryconamericus guizae*** Román-Valencia, 2003
Bryconamericus guizae Román-Valencia, 2003b:38, figs. 4–9. Type locality: Colombia, Departamento de Nariño, Municipio de Ricaurte, vereda Palmar, Alto Río Guiza, quebrada La Chiquita, afluente quebrada Inbi, 300 m del puente vía Ricaurte-Ospina (1° 13'43"N, 78° 02'11"W, 1041 m s.n.m.). Holotype: IUQ 450.
Distribution: 301 (Román-Valencia, 2003b).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).
- Bryconamericus guyanensis*** Zarske, Le Bail, Géry, 2010
Bryconamericus guyanensis Zarske, Le Bail, Géry, 2010:4, figs. 1–4. Type locality: French Guyana, Mana, crique Eau Claire at 7 km of Saül. Holotype: MNHN 2010-0036.
Distribution: 311 (Zarske *et al.*, 2010).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).
- Bryconamericus hyphesson*** Eigenmann, 1909
Bryconamericus hyphesson Eigenmann, 1909a:32. Type locality: Tumatumari, Lower Potaro. [Guyana]. Holotype: FMNH 52708.

Distribution: 310 (Eigenmann, 1909a).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus icelus Dahl, 1964

Bryconamericus icelus Dahl, in Dahl, Medem, 1964:70, figure. Type locality: Quebrada Guamural, afluente del Río Manso del Sinu. [Colombia]. Holotype: listed as possibly lost by Lima *et al.* (2003).

Distribution: 302 (Dahl, Medem, 1964).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus iheringii (Boulenger, 1887)

Tetragonopterus iheringii Boulenger, 1887a:172. Type locality: San Lorenzo, Rio Grande do Sul. [Brazil]. Lectotype: BMNH 1886.3.15.30. [Designated by Malabarba, Kindel (1995:679)].

Tetragonopterus pliodus Cope, 1894a:90, Pl. 5 (fig. 5). Type locality: Rio Grande do Sul. [Brazil]. Lectotype: ANSP 21578. [Designated by Fowler (1906:347). Treated as holotype by Böhlke (1984:51)].

Bryconamericus boops Eigenmann, 1908:105. Type locality: Maldonado. [Uruguay]. Holotype: MCZ 20700 (deformed specimen).

Distribution: 332, 334 (Bertaco *et al.*, 2016).

Bryconamericus ikaa Casciotta, Almirón, Azpelicueta, 2004

Bryconamericus ikaa Casciotta, Almirón, Azpelicueta, 2004:61, figs. 1–2. Type locality: Argentina: Misiones: Iguazú basin, arroyo Tateto (25° 47' 12.8"S, 53° 58' 12.9"W). Holotype: MACN-ict 8648.

Distribution: 346 (Casciotta *et al.*, 2004).

Bryconamericus indefessus (Mirande, Aguilera, Azpelicueta, 2004)

Nans indefessus Mirande, Aguilera, Azpelicueta, 2004:717, figs. 1–3, 5–6. Type locality: Argentina, Salta, Orán, rio Bermejo basin, río Pescado at estancia Anta Muerta 22° 54.3'S, 64° 28.2'W). Holotype: CI-FML 4000.

Distribution: 342 (Mirande *et al.*, 2004).

Bryconamericus lambari Malabarba, Kindel, 1995

Bryconamericus lambari Malabarba, Kindel, 1995:680, fig. 1. Type locality: Small creek flowing into arroio Feitoria, under bridge of avenida Ipiranga, município de Dois Irmãos, Rio Grande do Sul, Brazil, 51° 07'S, 29° 36'W. Holotype: MCP 15448.

Distribution: 334 (Malabarba, Kindel, 1995; Bertaco *et al.*, 2016).

Bryconamericus lassorum Román-Valencia, 2002

Bryconamericus lassorum Román-Valencia, 2002b:210, figs. 1–3. Type locality: Venezuela, Monagas State, stream El Caño, 10 km from Aragua to Maturin, Rio Guarapiche-San Juan system, Golfo de Paria basin (9° 55' 10"N, 63° 24' 53"W). Holotype: MNHLS 9407.

Distribution: 309 (Román-Valencia, 2002b).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus leptorhynchus (Silva, Malabarba, 1996)

Hypobrycon leptorhynchus Silva, Malabarba, 1996:46, figs. 1–2. Type locality: Brazil:

Santa Catarina: Campos Novos: rio Ibicuí, about 10 km from its mouth in the rio Canoas, rio Uruguai drainage, near the Celulose Iguaçú pulp mill plant (approx. 27° 33'S, 51° 12'W). Holotype: MCP 18862.

Distribution: 333 (Silva, Malabarba, 1996).

Bryconamericus lethostigmus (Gomes, 1947)

Odontostoechus lethostigmus Gomes, 1947:8, fig. 1, Pl. 1 (fig. 1). Type locality: backwater of Rio Maquiné, a tributary to Lagoa dos Quadros, Conceição do Arroio County, Rio Grande do Sul, Brazil. Holotype: UMMZ 143272.

Distribution: 335 (Hirschmann, 2015).

Bryconamericus macrophthalmus Román-Valencia, 2003

Bryconamericus macrophthalmus Román-Valencia, 2003d:8, figs. 1–6. Type locality: Venezuela, Amazonas State; Rio Orinoco basin, Rio Negro, rapid above the mouth of Rio Casiquiare, ca 10 km N of San Carlos de Rio Negro (ca. 2° 02'00"N, 67° 25'00"W). Holotype: MBUCV 29392.

Distribution: 307 (Román-Valencia, 2003d).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus maromba (Malabarba, Malabarba, 1994)

Hypobrycon maromba Malabarba, Malabarba, 1994:20, figs. 1–4. Type locality: Brazil: Santa Catarina: rio das Marombas, under Irineu Bornhausen bridge, on the road to campos novos (approx. 27° 11'S, 50° 38'W). Holotype: MCP 15757.

Distribution: 333 (Malabarba, Malabarba, 1994).

Bryconamericus mennii Miquelarena, Protogino, Filiberto, López, 2002

Bryconamericus mennii Miquelarena, Protogino, Filiberto, López, 2002:71, figs. 1–2. Type locality: Cuña-Pirú creek (27° 10'S, 54° 57'W), Departamento Caingúas, Misiones Province, Argentina. Holotype: CFA-IC 11251. [Bogan *et al.*, 2019:13].

Distribution: 345 (Miquelarena *et al.*, 2002).

Bryconamericus microcephalus (Miranda-Ribeiro, 1908)

Astyanax microcephalus Miranda-Ribeiro, 1908:[3]. Type locality: Rio Bethary. [Brazil]. Lectotype: MNRJ 2576A. [Designated by Miranda-Ribeiro (1953:396)].

Distribution: 330 (Miranda-Ribeiro, 1908).

Remarks: See Bizerril, Peres-Neto (1995) for redescription.

Bryconamericus motatanensis Schultz, 1944

Bryconamericus beta motatanensis Schultz, 1944:341, fig. 50. Type locality: Río San Juan at bridge south of Mene Grande, Motatán system. [Venezuela]. Holotype: USNM 121477.

Distribution: 303 (Schultz, 1944).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus novae Eigenmann, Henn, 1914

Bryconamericus novae Eigenmann, Henn, 1914:234. Type locality: Below Cachoeira da Velha near Piabana, Rio Novo of Rio Tocantins, Lower Amazon basin. [Brazil]. Holotype: FMNH 54905.

Distribution: 324 (Eigenmann, Henn, 1914).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus orinocoense Román-Valencia, 2003

Bryconamericus orinocoense Román-Valencia, 2003d:11, fig. 7. Type locality: Venezuela, Amazonas State, Rio Orinoco in Esmeralda (ca. 2°53'06"N, 64°58'06"W). Holotype: MBUCV-V 29464.

Distribution: 308 (Román-Valencia, 2003d).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus ornaticeps Bizerril, Perez-Neto, 1995

Bryconamericus ornaticeps Bizerril, Perez-Neto, 1995:18, fig. 3. Type locality: Rio Macacu, city of Cachoeira de Macacu, State of Rio de Janeiro, Brazil. Holotype: MNRJ 12310.

Distribution: 352 (Bizerril, Perez-Neto, 1995).

Bryconamericus oroensis Román-Valencia, Ruiz-C., Taphorn, García-Alzate, 2013

Bryconamericus oroensis Román-Valencia, Ruiz-C., Taphorn, García-Alzate, 2013:134, figs. 6–7. Type locality: Ecuador, El Oro, pond in Ortega, 1.5 km NE of Zaruma, 79°34'05"W, 03°39'46"S, 930 m a.s.l. Holotype: MEPN 11140.

Distribution: 301 (Román-Valencia *et al.*, 2013).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus osgoodi Eigenmann, Allen, 1942

Bryconamericus osgoodi Eigenmann, Allen, 1942:225, Pl. 14 (fig. 6). Type locality: Moyobamba. [Peru]. Holotype: CAS 40828.

Distribution: 312 (Eigenmann, Allen, 1942).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus pachacuti Eigenmann, 1927

Bryconamericus pachacuti Eigenmann, 1927:376, Pl. 99 (fig. 3). Type locality: Santa Ana, Rio Urubamba. [Peru]. Holotype: MCZ 31563.

Distribution: 312 (Eigenmann, 1927).

Remarks: Relationships somewhat uncertain but it is retained in *Bryconamericus* pending further study (Thomaz *et al.*, 2015).

Bryconamericus patriciae Da Silva, 2004

Bryconamericus patriciae Da Silva, 2004:56, fig. 1. Type locality: creek tributary of rio Pelotas, on road from Silveira to Rondinha (rio Uruguay drainage), Bom Jesus, Rio Grande do Sul, Brazil. Holotype: MCP 19615.

Distribution: 333, 334 (Silva, 2004).

Bryconamericus phoenicopterus (Cope, 1872)

Tetragonopterus phoenicopterus Cope, 1872b:261. Type locality: Ambyiacu River... near Pebas... Eastern Ecuador. [Rio Ampyiacu, Peru]. Lectotype: ANSP 8093. [Designated by Fowler (1906:338, fig. 26). Treated as holotype by Böhlke (1984:52)].

Distribution: 316 (Cope, 1872b).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus pinnavittatus Dagosta, Netto-Ferreira, 2015

Bryconamericus pinnavittatus Dagosta, Netto-Ferreira, 2015:434, fig. 1. Type locality:

- Brazil, Pará State, Jacareacanga Municipality, stream affluent of the right margin of the rio Teles Pires, downstream of Sete Quedas, 09°18'52"S, 56°46'54"W. Holotype: MZUSP 115349.
Distribution: 320 (Dagosta, Netto-Ferreira, 2015).
- Bryconamericus poi*** (Almirón, Casciotta, Azpelicueta, Cione, 2001)
Hypobrycon poi Almirón, Casciotta, Azpelicueta, Cione, 2001:35, figs. 1–4. Type locality: Argentina, Misiones, Municipio Leandro N. Alem, arroyo Once Vueltas (27°38'S, 55°12'W), Uruguay basin. Holotype: MLP 9573.
Distribution: 332 (Almirón *et al.*, 2001).
- Bryconamericus pyahu*** Azpelicueta, Casciotta, Almirón, 2003
Bryconamericus pyahu Azpelicueta, Casciotta, Almirón, 2003:582, figs. 1–3, 5. Type locality: Argentina, Misiones, arroyo Tateto (25°47'12.8"S, 53°58'12.9"W), Iguazú basin. Holotype: AI 101.
Distribution: 346 (Azpelicueta *et al.*, 2003).
- Bryconamericus rubropictus*** (Berg, 1901)
Tetragonopterus rubropictus Berg, 1901:305. Type locality: Río Molinos (Territorio de los Andes). [Argentina]. Lectotype: MACN 5165 (51.9 mm SL). [Designated by Braga (2000:149) although retained in the same lot along with two paralectotypes, 45.4 and 52.9 mm SL].
Distribution: 339 (Braga, 2000).
Remarks: Redescribed by Braga (2000).
- Bryconamericus singularis*** Román-Valencia, Taphorn, Ruiz-C., 2008
Bryconamericus singularis Román-Valencia, Taphorn, Ruiz-C., 2008:20, fig. 2. Type locality: Venezuela, Apure state, Orinoco River basin, Cinaruco River, beach (6°32.33'N, 67°25.35'W). Holotype: MCNG 54500.
Distribution: 307 (Román-Valencia *et al.*, 2008).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).
- Bryconamericus subtiliform*** Román-Valencia, 2003
Bryconamericus subtiliform Román-Valencia, 2003d:12, fig. 8. Type locality: Venezuela, Bolivar State, Escudo de Guayana, Rio Orinoco basin, drainage Rio Caura, Rio Carapo (approximately 4°0'03"N, 63°58'03"W). Holotype: MBUCV-V 29393.
Distribution: 308 (Román-Valencia, 2003d).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).
- Bryconamericus sylvicola*** Braga, 1998
Bryconamericus sylvicola Braga, 1998:22, figs. 1–2. Type locality: Argentina, Provincia de Misiones, Departamento Gral. Manuel Belgrano, arroyo Central (en proximidades RN 101, aproximadamente 25°50'LS, 54°10'LO), tributario del río Urugua-i, afluente del río Paraná. Holotype: MACN 8072.
Distribution: 345 (Braga, 1998).
- Bryconamericus tenuis*** Bizerril, Araújo, 1992
Bryconamericus tenuis Bizerril, Araújo, 1992:65, fig. 1. Type locality: Etat de Rio de Janeiro, rio São João, Ville de Silva Jardim. [Brazil]. Holotype: MNRJ 12230.
Distribution: 352 (Bizerril, Araújo, 1992).

Remarks: Surname of co-author incorrectly spelled in the original description (the correct name is “Araújo”, not “Auraujo”).

Bryconamericus turiuba Langeani, Lucena, Pedrini, Tarelho-Pereira, 2005

Bryconamericus turiuba Langeani, Lucena, Pedrini, Tarelho-Pereira, 2005:387, fig. 1. Type locality: Brazil, São Paulo, Turiúba, Ribeirão Santa Bárbara (rapid), Rio Tietê, upper Rio Paraná system, 20° 57'59"S, 50° 1'6"W. Holotype: MCP 29414. Distribution: 344 (Langeani *et al.*, 2005).

Remarks: A possible synonym of *Bryconamericus exodon* Eigenmann 1907 (García-Melo *et al.*, 2019:10).

Bryconamericus uporas Casciotta, Azpelicueta, Almirón, 2002

Bryconamericus uporas Casciotta, Azpelicueta, Almirón, 2002:156, figs. 1–6. Type locality: Argentina, Misiones, municipio Leandro N. Alem, arroyo Once Vueltas (27° 38'S, 55° 12'W), Uruguay basin. Holotype: MLP 9568. Distribution: 332 (Casciotta *et al.*, 2002).

Bryconamericus yokiae Román-Valencia, 2003

Bryconamericus yokiae Román-Valencia, 2003c:22, figs. 1–3. Type locality: Río Salado, al N.E. de Güiría, cuenca del Caribe en la Península de Paria, Estado Sucre, Venezuela. Holotype: MBUCV-V 29540. Distribution: 304 (Román-Valencia, 2003c).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

Bryconamericus ytu Almirón, Azpelicueta, Casciotta, 2004

Bryconamericus ytu Almirón, Azpelicueta, Casciotta, 2004:4, figs. 1–5. Type locality: Argentina, province of Misiones, río Uruguay basin, arroyo Shangay (27° 29'S, 54° 40'W). Holotype: MACN-ict 8670. Distribution: 332 (Almirón *et al.*, 2004).

Bryconamericus zamorensis Román-Valencia, Ruiz-C., Taphorn B., García-A., 2013

Bryconamericus zamorensis Román-Valencia, Ruiz-C., Taphorn B., García-A., 2013:132, figs. 3–5. Type locality: Ecuador, Zamora Chinchipe, Rio Nangaritza at confluence with Rio Numpatakaima, 78° 31'20"W, 04° 20'31"S, 950 m a.s.l. Holotype: MEPN 11134.

Distribution: 313 (Román-Valencia *et al.*, 2013).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015).

BRYCONELLA Géry, 1965

FCT Lima

Bryconella Géry, 1965a:27. Type species: *Bryconella haraldi* Géry, 1965. Type by original designation. Gender: Feminine.

Bryconella pallidifrons (Fowler, 1946)

Cheirodon pallidifrons Fowler, 1946:1, figure. Type locality: South America, supposedly from the Amazon R. Holotype: ANSP 71728.

Hyphessobrycon thompsoni Fowler, 1949c:73, figure. Type locality: Aquarium fish; supposedly from South America, probably Brazil. Holotype: ANSP 71849.

Bryconella haraldi Géry, 1965a:28, Pl. 4 (fig. 13). Type locality: Igarapé Prêto,

collateral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7220.
Distribution: 316, 321 (Lima *et al.*, 2013).

BRYCONEXODON Géry, 1980

CAS Lucena, O Santos

Bryconexodon Géry, 1980b:2. Type species: *Bryconexodon juruena* Géry, 1980. Type by original designation. Gender: Masculine.

Bryconexodon juruena Géry, 1980

Bryconexodon juruena Géry, 1980b:2, figs. 1–2. Type locality: haut rio Juruena, affluent du rio Tapajoz, Mato Grosso, Brésil, au voisinage de la route Cuiaba-Porto Velho. [Brazil]. Holotype: MZUSP 14638.
Distribution: 320 (Gery, 1980b).

Bryconexodon trombetasi Jégu, Santos, Ferreira, 1991

Bryconexodon trombetasi Jégu, Santos, Ferreira, 1991:774, figs. 2–7. Type locality: Rio Trombetas em amont de la confluence avec l'Igarapé Caxipacoré, Pará, Brésil. [Brazil]. Holotype: INPA 3103.
Distribution: 315 (Jégu *et al.*, 1991).

CAIAPOBRYCON Malabarba, Vari, 2000

LR Malabarba

Caiapobrycon Malabarba, Vari, 2000:316. Type species: *Caiapobrycon tucurui* Malabarba, Vari, 2000. Type by original designation. Gender: Masculine.

Caiapobrycon tucurui Malabarba, Vari, 2000

Caiapobrycon tucurui Malabarba, Vari, 2000:316, figs. 1–3, 5–6. Type locality: Brazil, Goiás, rio do Peixe, tributary of rio Maranhão, Niquelândia (14° 28'S, 48° 45'W). Holotype: MNRJ 14546.
Distribution: 324 (Malabarba, Vari, 2000).

CARLANA Strand, 1928

RE Reis

Carlia Meek, 1914:108. Type species: *Cheirodon eigenmanni* Meek, 1912. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Carlia* Gray, 1845, in lizards; replaced by *Carlana* Strand, 1928.

Carlana Strand, 1928:54. Type species: *Cheirodon eigenmanni* Meek, 1912. Type by being a replacement name. Gender: Feminine. Additional comments: Replacement for *Carlia* Meek, 1914, preoccupied by *Carlia*, Gray, 1845.

Carlana eigenmanni (Meek, 1912)

Cheirodon eigenmanni Meek, 1912:70. Type locality: La Junta, Costa Rica. Holotype: FMNH 7683 [not 7583].
Distribution: 205, 209 (Based on examination of specimens from fish collections from FMNH, UCR, LACM, CAS, USNM, STRI).

CARLASTYANAX Géry, 1972

AM Zanata, VA Bertaco

Carlastyanax Géry, 1972b:16. Type species: *Astyanax aurocaudatus* Eigenmann, 1913. Type by original designation. Gender: Masculine.

Carlastyanax aurocaudatus (Eigenmann, 1913)

Astyanax aurocaudatus Eigenmann, 1913:26. Type locality: Boquia, Colombia. Holotype: FMNH 56882.

Distribution: 302.

Remarks: Species transferred to *Carlastyanax* Géry, a genus considered to be valid by Mirandé *et al.* (2013).

CERATOBANCHIA Eigenmann, 1914

AL Netto-Ferreira

Ceratobranchia Eigenmann, in Eigenmann, Henn, Wilson, 1914:3. Type species: *Ceratobranchia obtusirostris* Eigenmann, 1914. Type by monotypy. Gender: Feminine.

Ceratobranchia binghami Eigenmann, 1927

Ceratobranchia binghami Eigenmann, 1927:357, Pl. 96 (fig. 1). Type locality: Santa Ana, Rio Urubamba. [Santa Ana is possibly an allusion to the district of Santa Ana which encompasses the lower lands and Andean piedmont of the Cusco Department with its main city being Quillabamba (12° 51' 52.2"S, 72° 41' 36.5"W), Peru. The coordinates of the type locality estimated in Chernoff, Machado-Allison (1990) are slightly mis-calculated, leading to a mountain top instead of the Río Urubamba]. Holotype: MCZ 31561.

Distribution: 312 (Chernoff, Machado-Allison, 1990).

Ceratobranchia delotaenia Chernoff, Machado-Allison, 1990

Ceratobranchia delotaenia Chernoff, Machado-Allison, 1990:283, figs. 20–21. Type locality: Cusco/Madre de Dios border, mouth of Río Carbon, below Atalaya in vicinity of road ford on north south hwy, 12° 53'S, 71° 20'W. [The coordinates presented in Chernoff, Machado-Allison (1990) are slightly inaccurate leading to a tributary of the Río Carbón, instead of leading to the ford in the confluence of the rivers Carbón and Madre de Dios. More precise coordinates are 12° 53' 6.8"S, 71° 21' 29.0"W]. Holotype: ANSP 163721.

Distribution: 318 (Chernoff, Machado-Allison, 1990).

Ceratobranchia elatior Tortonese, 1942

Ceratobranchia elatior Tortonese, 1942:67 [57], Pl. 4 (fig. 1). Type locality: Rio Zamora, Ecuador. Holotype: MZUT 3558. [Lack of personnel at the MZUT prevented examination and access to further information about the type specimen (Franco Andreone, pers. comm.)].

Distribution: 312.

Remarks: Possibly the same species as “cf. *Othonocheirodus* sp.” of Chernoff, Machado-Allison (1990).

Ceratobranchia joanae Chernoff, Machado-Allison, 1990

Ceratobranchia joanae Chernoff, Machado-Allison, 1990:286, figs. 22–23. Type

locality: Río Maniapure at crossing of Caicara–Puerto Ayacucho Hwy, 6°55'48"N, 66°33'22"W. [The coordinates presented in Chernoff, Machado–Allison (1990) are slightly inaccurate. The crossing between the highway and the Río Maniapure is at 6°55'34.7"N, 66°33'34.8"W, Venezuela]. Holotype: MBUCV-V-18616.

Distribution: 307 (Chernoff, Machado–Allison, 1990).

***Ceratobranchia obtusirostris* Eigenmann, 1914**

Ceratobranchia obtusirostris Eigenmann, in Eigenmann, Henn, Wilson, 1914:4.

Type locality: Chauchamago, east of Tarma, Peru. [= Chanchamayo. Type locality description obtained from Eigenmann (1927). Chanchamayo may refer to homonymous river, district, province or municipality. The city is currently named La Merced (11°3'51.9"S, 75°19'44.5"W), being the capital of both the province and district. The city lies on the left bank of the Río Chanchamayo, and is possibly the collection site of the type of *C. obtusirostris*]. Holotype: CAS 40848.

Distribution: 312 (Chernoff, Machado–Allison, 1990).

CHARAX Scopoli, 1777

CAS Lucena

***Charax* Gronovius, 1763:123.** Type species: Not available. Gender: Masculine.

***Charax* Scopoli, 1777:455.** Type species: *Salmo gibbosus* Linnaeus, 1758. Type by subsequent designation of Eigenmann, 1910:444 [Menezes, Lucena, 2014:195]. Gender: Masculine.

***Characinus* Lacepède, 1803:269.** Type species: *Salmo gibbosus* Linnaeus, 1758. Type by subsequent designation of Jordan, 1917:66 [Menezes, Lucena, 2014:195]. Gender: Masculine.

***Epicyrthus* Müller, Troschel, 1844:92.** Type species: *Salmo gibbosus* Linnaeus, 1758. Type by monotypy. Gender: Masculine. Additional comments: Preoccupied by *Epicyrthus* Dejean, 1833 in Coleoptera, replaced by *Anacyrtus* Günther, 1864.

***Anacyrtus* Günther, 1864:345.** Type species: *Salmo gibbosus* Linnaeus, 1758. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Epicyrthus* Müller, Troschel 1844, preoccupied by *Epicyrthus* Dejean, 183.

***Asiphonichthys* Cope, 1894b:67.** Type species: *Asiphonichthys stenopterus* Cope, 1894. Type by monotypy. Gender: Masculine.

***Moralesia* Fowler, 1943b:96.** Type species: *Anacyrtus tectifer* Cope, 1870. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Moralesia* Kaszab, in Español, 1944 in Coleoptera, replaced by *Moralesicus* Fowler, 1958.

***Charaxodon* Fernández-Yépez, 1947:1.** Type species: *Charax metae* Eigenmann, 1922. Type by original designation. Gender: Masculine.

***Moralesicus* Fowler, 1958:9.** Type species: *Anacyrtus tectifer* Cope, 1870. Type by being a replacement name. Gender: Masculine.

Remarks: *Charax* was first proposed by Gronovius (1763:123), in a work that was later placed on the Official Index of Rejected and Invalid Generic Names in Zoology, ICZN Opinion 261, 1954, which makes the name unavailable from

that publication.

Charax apurensis Lucena, 1987

Charax apurensis Lucena, 1987:30, fig. 2. Type locality: rio el Canito, onde é atravessado pela estrada que une San Fernando a Canaviche (07°28'N, 67°39'W). [Venezuela]. Holotype: MBUCV-V-15400.

Distribution: 307, 309 (Lucena, 1987; Menezes, Lucena, 2014).

Charax awa Guimarães, Brito, Ferreira, Ottoni, 2018

Charax awa Guimarães, Brito, Ferreira, Ottoni, 2018:84, figs. 1, 2, 5. Type locality: Brazil, Maranhão State: Alto Alegre do Pindaré municipality, Igarapé Mineirão, Rio Mearim basin, 3°42'26"S, 45°56'05"W. Holotype: CICCAA 00752.

Distribution: 323, 325 (Guimarães, Brito, Ferreira, Ottoni, 2018).

Charax caudimaculatus Lucena, 1987

Charax caudimaculatus Lucena, 1987:32, fig. 3. Type locality: Laguna Chica, Reserva Natural de Tambopata (12°50'30"S, 69°17'30"W). [Peru]. Holotype: MUSM 5081.

Distribution: 318 (Lucena, 1987; Menezes, Lucena, 2014).

Charax condei (Géry, Knöppel, 1976)

Asiphonichthys condei Géry, Knöppel, 1976:48, figs. 1–2. Type locality: Tarumazinho, affluent de la rive gauche du bas rio Négro au-dessus de Manaus. [Brazil]. Holotype: MHNG 2229.05.

Distribution: 314, 316 (Lucena, 1987; Menezes, Lucena, 2014).

Charax delimai Menezes, Lucena, 2014

Charax delimai Menezes, Lucena, 2014:202, fig. 10. Type locality: Brazil, Amazonas, community of São Pedro, rio Tiquié, rio Negro drainage, 0°16'04"N, 69°58'21"W. Holotype: MZUSP 81505.

Distribution: 314 (Menezes, Lucena, 2014).

Charax gibbosus (Linnaeus, 1758)

Salmo gibbosus Linnaeus, 1758:311. Type locality: Habitat Surinami in fluminibus. Holotype: BMNH 1853.11.12.35 (left halfskin).

Cynopotamus gibbosus Valenciennes, in Cuvier, Valenciennes, 1850:321, Pl. 645. Type locality: la Mana, l'Esséquibo. Syntypes: MNHN A-9843 (2) Mana R., A-9844 (5) Essequibo.

Distribution: 310, 311, 315 (Lucena, 1987; Menezes, Lucena, 2014).

Charax hemigrammus (Eigenmann, 1912)

Asiphonichthys hemigrammus Eigenmann, 1912a:403, Pl. 60 (fig. 4). Type locality: Gluck Island. [Guyana]. Holotype: FMNH 53665.

Distribution: 310, 314, 316 (Lucena, 1987; Menezes, Lucena, 2014).

Charax leticiae Lucena, 1987

Charax leticiae Lucena, 1987:40, fig. 7. Type locality: Pará, Igarapé Urubu, perto do posto de Trocara, rio Tocantins. [Brazil]. Holotype: MZUSP 28660.

Distribution: 324, 343, 321 (Lucena, 1987; Lucena, 1989; Menezes, Lucena, 2014).

Charax macrolepis (Kner, 1858)

Epicyrthus macrolepis Kner, 1858b:167 [7]. Type locality: Rio Guaporé, Cujaba, Caiçara, Marabitanos, Surinam; ohne Provinzialnamen. [Lucena (1987) restricted the type locality to rio Guaporé, Mato Grosso, Brazil]. Lectotype: NMW 62668-6 (78 mm). [Designated by Lucena (1987)].

Distribution: 319, 321 (Menezes, Lucena, 2014).

Charax metae Eigenmann, 1922

Charax metae Eigenmann, 1922:238, Pl. 25 (fig. 1). Type locality: Barrigón. [Puerto Barrigona aprox. 04° 10' N, 73° 00' W, Colombia]. Holotype: CAS 41300.

Distribution: 306 (Menezes, Lucena, 2014).

Charax michaeli Lucena, 1989

Charax michaeli Lucena, 1989:98, fig. 2. Type locality: Igarapé do Cujobim, rio Branco (em face del ile de Maraca). [Brazil]. Holotype: MZUSP 37276.

Charax unimaculatus Lucena, 1989:101, fig. 4. Type locality: Brésil: Amazonia, lago Manacapuru. [Brazil]. Holotype: MZUSP 6534.

Distribution: 314, 315, 316 (Menezes, Lucena, 2014).

Remarks: Synonymy of *Charax unimaculatus*, Lucena, 1989 and *C. michaeli* Lucena, 1989 proposed by Menezes, Lucena (2014), and thus acting as first revisers in establishing priority.

Charax niger Lucena, 1989

Charax niger Lucena, 1989:99, fig. 3. Type locality: rio Amapa (canal do rio), Cachoeira Grande. [Brazil]. Holotype: MZUSP 33422.

Distribution: 314, 316, 323, 324 (Menezes, Lucena, 2014).

Charax notulatus Lucena, 1987

Charax notulatus Lucena, 1987:46, fig. 10. Type locality: pequeno córrego próximo a desembocadura do córrego Socoroco, rio Orinoco, 111 milhas náuticas acima do Mar de Bouy. [Venezuela]. Holotype: MBUCV-V-15000.

Distribution: 307, 309 (Menezes, Lucena, 2014).

Charax pauciradiatus (Günther, 1864)

Anacyrtus pauciradiatus Günther, 1864:346. Type locality: River Capin. [Brazil]. Syntypes: BMNH 1849.11.8.47 (1), 1849.11.8.51 (1).

Distribution: 323, 321, 316 (Menezes, Lucena, 2014).

Charax rupununi Eigenmann, 1912

Charax rupununi Eigenmann, 1912a:402. Type locality: Rupununi. [Guyana]. Holotype: FMNH 53663.

Distribution: 310, 316 (Menezes, Lucena, 2014).

Charax stenopterus (Cope, 1894)

Asiphonichthys stenopterus Cope, 1894b:67. Type locality: uppers waters of the Jacuhy River in the Brazilian State of Rio Grande do Sul. Holotype: ANSP 21559. [Fowler (1907:452); Böhlke (1984:54)].

Distribution: 343, 345, 334, 335, 332 (Lucena, 1987; Menezes, Lucena, 2014).

Remarks: Species redescribed by Menezes, Lucena, 2014.

Charax tectifer (Cope, 1870)

Anacyrtus tectifer Cope, 1870:565. Type locality: Pebas, Ecuador. [currently, Peru, Hauxwell's collection]. Holotype: ANSP 8175. [Fowler, 1907:453; Böhlke, 1984:55].

Hydrolycus copei Gill, 1870:93. Type locality: Napo and Marañon rivers. [Ecuador and Peru]. Syntypes: USNM 55664 (orig. 4, now 3). Synonymy first proposed by Schultz, 1950:58. Priority of *Anacyrtus tectifer* Cope, 1870 over *Hydrolycus copei* Gill, 1870 discussed by Géry, 1986.

Anacyrtus sanguineus Cope, 1872b:266, Pl. 9 (fig. 1). Type locality: Ambyiacu. [Rio

Ampyiacu, Peru]. Lectotype: ANSP 8176. [Designated by Fowler (1907:453). Treated as holotype by Böhlke (1984:53)].
Distribution: 316, 313 (Lucena, 1987; Menezes, Lucena, 2014).

CHEIRODON Girard, 1855

J Chuctaya, FC Jerep, LR Malabarba

Cheirodon Girard, 1855:199. Type species: *Cheirodon pisciculus* Girard, 1855. Type by monotypy. Gender: Masculine.

Pedalibrycon Fowler, 1943e:314. Type species: *Pedalibrycon felipponei* Fowler, 1943. Type by original designation. Gender: Masculine.

Remarks: Spelled *Chirodon* by various authors in various species descriptions (Günther, 1869; Lütken, 1875c, Steindachner, 1880, Steindachner, 1882c; Cope, 1894a; Boulenger, 1900a; and Boulenger, 1909b).

Cheirodon australe Eigenmann, 1928

Cheirodon australe Eigenmann, 1928:44, Pl. 9 (fig. 3). Type locality: Puerto Varas. [Chile]. Holotype: CAS 59762.

Distribution: 349 (Campos, 1982).

Cheirodon galusdae Eigenmann, 1928

Cheirodon galusdae Eigenmann, 1928:44, Pl. 9 (fig. 2). Type locality: San Xavier. [Chile]. Holotype: CAS 59760.

Distribution: 341 (Campos, 1982).

Cheirodon ibicuiensis Eigenmann, 1915

Cheirodon interruptus var. *ibicuiensis* Eigenmann, 1915:74. Type locality: Cacequy, Rio Ibicuy, into Rio Uruguay. [Brazil]. Syntypes: FMNH 57833 and FMNH 98573.

Distribution: 332, 333, 334, 335 (Malabarba, 2003; Malabarba *et al.*, 2013).

Cheirodon interruptus (Jenyns, 1842)

Tetragonopterus interruptus Jenyns, 1842:127, Pl. 23 (fig. 4). Type locality: Maldonado. [Uruguay]. Syntypes: BMNH 1917.7.14.16–17 (2).

Chirodon monodon Cope, 1894a:91, Pl. 6 (fig. 9). Type locality: not given. [Cope (1894a) did not mention the type locality but asserted that the description was based on material collected in the Brazilian province of Rio Grande do Sul. Malabarba (1983:121,133) restricted the type locality to “Sistema da laguna dos Patos”. Lectotype locality: from Brazilian province of Rio Grande do Sul]. Lectotype: ANSP 21561. [Designated by Fowler (1906). Treated as holotype by Böhlke (1984:51)]. Genus name was corrected by Fowler (1906) to *Cheirodon monodon*, when he designated the lectotype.

Cheirodon meinkenii Ahl, 1928a:320. Type locality: “Heimat nicht genau bekannt, Ostküste Süd amerikas zwischen Rio de Janeiro und Bahia”. [free translation - Origin not exactly known, East Coast of South America between Rio de Janeiro and Bahia, Brazil]. Lectotype: ZMB 20786. [Designated in Zarske, Géry (1995)]. Type locality is in error given it is outside the currently known distribution range for *Cheirodon interruptus* Zarske, Géry (1995: fig. 6) illustrated the paralectotype ZMB 32433.

Cheirodon leuciscus Ahl, 1936:19. Type locality: Rosario de Sta. Fé, Argentinien.

- [Argentina]. Lectotype: ZMB 20802. [Designated in Zarske, Géry (1995: fig. 5)].
- Hyphessobrycon nigrifrons* Ahl, 1936:23. Type locality: Para, Amazonas. [Brazil]. Holotype: ZMB 20800. Type locality is in error given it is outside the currently known distribution range for *Cheirodon interruptus*. The only extant specimen of *Hyphessobrycon nigrifrons* is in a very poor state of preservation, the fins are all broken off or damaged, the dentition is also severely affected (Zarske, Géry (1995)).
- Pedalibrycon felipponei* Fowler, 1943:314, figs. 4–6. Type locality: Rio Gi, Departamento del Iluranto, Uruguay. Holotype: ANSP 70332.
Distribution: 332, 333, 334, 335, 341i, 345, 347 (Campos, 1982; Malabarba, 2003; Malabarba *et al.*, 2013).
- Cheirodon jaguaribensis*** Fowler, 1941
Cheirodon jaguaribensis Fowler, 1941b:180, fig. 91. Type locality: Rio Jaguaribe, Russas, Ceará. [Brazil]. Holotype: ANSP 69530.
Distribution: 326 (Fowler, 1941b; Reis *et al.*, 2003).
Remarks: This is a valid species, but it may not be related to *Cheirodon* or Cheirodontinae. It could be related to species of *Hemigrammus* (Berbel-Filho *et al.*, 2018).
- Cheirodon kiliani*** Campos, 1982
Cheirodon kiliani Campos, 1982: 135, 154, figs. 10–11. Type locality: Río Cau Cau. [Chile]. Holotype: IZUA 2340.
Distribution: 341 (Campos, 1982).
- Cheirodon luelingi*** Géry, 1964
Cheirodon luelingi Géry, 1964b:19, fig. 16. Type locality: Petit ruisseau faisant communiquer le “Zapote Cocha” avec le “Caño Yarina”, em bordure du Rio Pacaya, affluent du canal de Puinahua (bras du bas Rio Ucayali). [Peru]. Holotype: ZFMK 1417. [Information about types in Herder *et al.* (2010)].
Distribution: 316 (Géry, 1964b; Reis *et al.*, 2003).
Remarks: This is a valid species, but it may not be related to *Cheirodon* or Cheirodontinae (L. Malabarba, 1994).
- Cheirodon macropterus*** Fowler, 1941
Cheirodon macropterus Fowler, 1941b:182, fig. 92. Type locality: Rio Jaguaribe, Russas, Ceará. [Brazil]. Holotype: ANSP 69531.
Distribution: 326 (Fowler, 1941b; Reis *et al.*, 2003).
Remarks: This is a valid species, but it may not be related to *Cheirodon* or Cheirodontinae (L. Malabarba, 1994).
- Cheirodon ortegai*** Vari, Géry, 1980
Cheirodon ortegai Vari, Géry, 1980:75, figs. 1–2. Type locality: Woodland pool connected with the Río Ucayali at Cocha Roba, 5 km downriver from Loreto, Perú (approx., 8°35'S, 74°22'W). Holotype: AMNH 35950.
Distribution: 317 (Vari, Géry, 1980; Reis *et al.*, 2003).
Remarks: This is a valid species, but it may not be related to *Cheirodon* or Cheirodontinae (Malabarba, pers. comm., in Reis *et al.* (2003)).
- Cheirodon parahybae*** Eigenmann, 1915
Cheirodon parahybae Eigenmann, 1915:70, Pl. 11 (fig. 2). Type locality: Campos.

[In the caption of Pl. 11 (fig.2), Eigenmann (1915) mentioned that the type originated from Campos, on R. Parahyba (= Rio Paraíba do Sul), Brazil].

Holotype: FMNH 57857.

Distribution: 329 (Eigenmann, 1915; Malabarba, 2003).

***Cheirodon pisciculus* Girard, 1855**

Cheirodon pisciculus Girard, 1855:199. Type locality: Ponds in the vicinity of Santiago, Chili. [Chile]. No types known.

Cheirodon annae McAtee, in Eigenmann, Kennedy, 1903:515. Type locality: South America. Holotype: CAS 59758.

Distribution: 341 (Campos, 1982; Arratia, 1987).

Remarks: According to Eigenmann, 1915 the specimens of *Cheirodon annae* were received as an exchange from the U.S. National Museum. Their origin is in doubt. It is possible that they are the types of *C. pisciculus*.

***Cheirodon stenodon* Eigenmann, 1915**

Cheirodon stenodon Eigenmann, 1915:82, fig. 30, Pl. 14 (fig. 2). Type locality: Bebedouro, near Rio Grande and Rio Paraná. [Brazil]. Holotype: FMNH 57865.

Distribution: 344 (Eigenmann, 1915; Reis *et al.*, 2003; Langeani *et al.*, 2007).

Remarks: This is a valid species, but it may not be related to *Cheirodon* or *Cheirodontinae* (L. Malabarba, pers. comm., in Reis *et al.* (2003).

CHEIRODONTOPS Schultz, 1944

FC Jerep, LR Malabarba, J Chuctaya

Cheirodontops Schultz, 1944:319. Type species: *Cheirodontops geayi* Schultz, 1944. Type by original designation. Gender: Masculine.

***Cheirodontops geayi* Schultz, 1944**

Cheirodontops geayi Schultz, 1944:313, figs. 42–43. Type locality: Río Guárico and tributaries between San Sebastián and San Casimiro, Estado de Aragua, Venezuela. Holotype: USNM 121507.

Distribution: 304, 307a, 309a (Schultz, 1944; Bührnheim, 2006; Urbano-Bonilla *et al.*, 2018).

CHRYSOBRYCON Weitzman, Menezes, 1998

NA Menezes, P Camelier

Chrysobrycon Weitzman, Menezes, 1998:187. Type species: *Hysteronotus hesperus* Böhlke, 1958. Type by original designation. Gender: Masculine.

***Chrysobrycon eliasi* Vanegas-Ríos, Azpelicueta, Ortega, 2011**

Chrysobrycon eliasi Vanegas-Ríos, Azpelicueta, Ortega, 2011:732, figs. 1–4. Type locality: Peru, Madre de Dios, Tambopata, río Madre de Dios basin, Creek Loboyoc, 12°27'7.27"S, 69°7'42.53"W, 210 m a.s.l. Holotype: MUSM 39970.

Distribution: 318 (Vanegas-Ríos *et al.*, 2011).

***Chrysobrycon guahibo* Vanegas-Ríos, Urbano-Bonilla, Azpelicueta, 2015**

Chrysobrycon guahibo Vanegas-Ríos, Urbano-Bonilla, Azpelicueta, 2015:172, figs. 1–2, 4–6. Type locality: Colombia: Meta department: Fuente de Oro municipality: Orinoco River basin, Guaviare River basin, Ariari River basin,

- Caño Abrote; 3°17'39"N, 73°32'02"W 258 m asl (above sea level). Holotype: MPUJ 7160.
 Distribution: 305, 306 (Vanegas-Ríos *et al.*, 2015).
- Chrysobrycon hesperus*** (Böhlke, 1958)
Hysteronotus hesperus Böhlke, 1958a:35, Pl. 3 (fig. 2), fig. 6. Type locality: Río Pucuno. [Ecuador at 0°46'S, 77°12'W]. Holotype: USNM 164056.
 Distribution: 312 (Böhlke, 1958a).
- Chrysobrycon mojicaí*** Vanegas-Ríos, Urbano-Bonilla, 2017
Chrysobrycon mojicaí Vanegas-Ríos, Urbano-Bonilla, 2017:2346, figs. 1–3. Type locality: Colombia, Amazonas Department, Leticia, Amacayacu National Natural Park, Amazon River basin, unnamed forest stream tributary of Matamatá River, 3°48'23"S, 70°15'58"W, 86m a.s.l. Holotype: IAvH-P 13932.
 Distribution: 316 (Vanegas-Ríos, Urbano-Bonilla, 2017).
- Chrysobrycon myersi*** (Weitzman, Thomerson, 1970)
Hysteronotus myersi Weitzman, Thomerson, 1970:140, figs. 1–5. Type locality: Small stream directly tributary to Pachitea River (itself tributary to Ucayali River) at northeastern outskirts of Tournavista, Huanuco Province, Peru. Holotype: USNM 203697.
 Distribution: 317 (Weitzman, Thomerson, 1970).
- Chrysobrycon yoliae*** Vanegas-Ríos, Azpelicueta, Ortega, 2014
Chrysobrycon yoliae Vanegas-Ríos, Azpelicueta, Ortega, 2014:292, figs. 1–3. Type locality: Peru, Ucayali, Coronel Portillo, Abujao, río Ucayali basin, río Yucamia subsystem, unnamed Quebrada, 8°39'13.99"S, 73°21'16.63"W, approximately 273 m a.s.l. Holotype: MUSM 46140.
 Distribution: 317 (Vanegas-Ríos *et al.*, 2014).

COMPSURA Eigenmann, 1915 **FC Jerop, LR Malabarba, J Chuctaya**

Compsura Eigenmann, 1915:60. Type species: *Compsura heterura* Eigenmann, 1915. Type by original designation. Gender: Feminine.

Compsura gorgonae (Evermann, Goldsborough, 1909)
Cheirodon gorgonae Evermann, Goldsborough, 1909:99, fig. 1, fig. 3. Type locality: from a small seepage pool below the spillway of the reservoir dam at Gorgona, Canal Zone. [Panama]. Holotype: USNM 64094.
 Distribution: 206a, 208a, 209a, 210a (Jerop, 2011).

Compsura heterura Eigenmann, 1915
Compsura heterura Eigenmann, 1915:61, fig. 19, Pl. 10 (fig. 1). Type locality: Queimadas, Rio Itapicurú. [Brazil]. Holotype: FMNH 57825.
Bryconamericus megalepis Fowler, 1941b:188, fig. 98. Type locality: Forteleza, Ceará. [Brazil]. Holotype: ANSP 69602.
 Distribution: 327, 325a, 326a, 328a (Jerop, 2011).

COPTOBRYCON Géry, 1966 **F Langeani, JP Serra**

Coptobrycon Géry, 1966b:226. Type species: *Hasemania bilineata* Ellis, 1911. Type by

original designation. Gender: Masculine.

Coptobrycon bilineatus (Ellis, 1911)

Hasemanina bilineata Ellis, 1911:150, Pl. 1 (fig. 3). Type locality: Alto da Serra, São Paulo, in a creek. [Brazil]. Holotype: FMNH 54383.

Distribution: 330, 344 (Serra *et al.*, 2007; Serra *et al.*, 2008; Langeani, Serra, 2010).

Remarks: status of species discussed by Géry (1966b); redescription of species presented by Langeani, Serra (2010).

CORYNOPOMA Gill, 1858

NA Menezes, P Camelier

Corynopoma Gill, 1858:425. Type species: *Corynopoma riisei* Gill, 1858. Type by subsequent designation by Jordan, 1919a:281. Gender: Neuter.

Nematopoma Gill, 1858:428. Type species: *Nematopoma searlesii* Gill, 1858. Type by monotypy. Gender: Neuter.

Stewardia Gill, 1858:423. Type species: *Stewardia albipinnis* Gill, 1858. Type by monotypy. Gender: Feminine.

Remarks: Günther (1864:287) acted as first reviser selecting *Corynopoma*, Gill over *Stewardia*, Gill and *Nematopoma*, Gill (Weitzman, Fink, 1985:2).

Corynopoma riisei Gill, 1858

Corynopoma riisei Gill, 1858:426 [66]. Type locality: Western portion of the Island of Trinidad. No types known.

Corynopoma veedonii Gill, 1858:427 [67]. Type locality: Western portion of the Island of Trinidad. No types known.

Nematopoma searlesii Gill, 1858:429 [69]. Type locality: Western portion of the Island of Trinidad. No types known.

Stewardia albipinnis Gill, 1858:425 [65]. Type locality: Western portion of the Island of Trinidad. No types known.

Stewardia aliata Eigenmann, 1914c:37. Type locality: Rio Negro. Villavicencio. Gonzales. [Colombia]. Holotype: FMNH 56400.

Distribution: 304 (Gill, 1858; Weitzman, 2003:224).

CREAGRUTUS Günther, 1864

FCP Dagosta

Creagrutus Günther, 1864:339. Type species: *Leporinus muelleri* Günther, 1859. Type by monotypy. Gender: Masculine.

Creagrudite Myers, 1927:117. Type species: *Creagrudite maxillaris* Myers, 1927. Type by original designation. Gender: Masculine.

Creagrutops Schultz, 1944:327. Type species: *Creagrutops maracaiboensis* Schultz, 1944. Type by original designation. Gender: Masculine.

Creagrutus affinis Steindachner, 1880

Creagrutus affinis Steindachner, 1880:79 [27]. Type locality: Cauca. [Colombia]. Lectotype: NMW 67120.1. [Designated by Harold, Vari (1994:25)].

Creagrutus notropoides Meek, Hildebrand, 1912:68. Type locality: Rio Indio, Panama.

Holotype: FMNH 7574.

Creagrutus simus Meek, Hildebrand, 1913:85. Type locality: Rio Cupe, Cituro, Panama. [Rio Tuira Basin]. Holotype: FMNH 7591.

Creagrutus leuciscus Regan, 1913b:463. Type locality: Rio Condoto, a tributary of the San Juan, a river of the Pacific slope in S.W. Colombia. Lectotype: BMNH 1913.10.1:6. [Designated by Harold, Vari (1994:26)]. Synonym of *Creagrutus affinis* following Harold, Vari (1994) and Vari, Harold (2001).

Creagrutus londonoi Fowler, 1945a:3, figs. 1–3. Type locality: Honda, Colombia. Holotype: ANSP 71610.

Distribution: 301, 302 (Harold, Vari, 1994; Vanegas-Rios *et al.*, 2021).

Creagrutus amoenus Fowler, 1943

Creagrutus amoenus Fowler, 1943d:239, fig. 18. Type locality: Florencia, Rio Ortegusa, Colombia. Holotype: ANSP 70499.

Creagrutus boehlkei Géry, 1972b:63, Pl. 4 (fig. 2). Type locality: Oriente del Ecuador (basin amazonien, localité non précisée). Holotype: ZSM 28428a [not 28428, see Neumann, 2011:244].

Distribution: 306, 313, 316 (Vari, Harold, 2001).

Remarks: Description based on four specimens, one holotype and three paratypes. One of the paratypes of the species (ANSP 70500, 62.8 mm SL) is a specimen of *C. flavescens* (Vari, Harold, 2003).

Creagrutus anary Fowler, 1913

Creagrutus anary Fowler, 1913b:552, fig. 16. Type locality: Madeira River, about 200 miles east of Long. 62°20'W., Brazil. [Böhlke (1955a) proposed that the actual distance was 20 rather than 200 miles east of longitude 62°20'W. According to Vari, Harold (2001) such an interpretation shifts the type locality of *C. anary* further upstream along the Rio Madeira and places it significantly closer to the other collecting sites with exact locality information provided by the collector, E.A. Smith. The known distribution of *C. anary* is in agreement with Böhlke's suggestion]. Holotype: ANSP 39290 (missing).

Distribution: 316 (Vari, Harold, 2001).

Remarks: Description was based on the holotype and a single paratype, both collected in the Rio Madeira system. Böhlke (1984) reported that the holotype (ANSP 39290) was missing and that the single paratype (ANSP 39291) had been cleared and stained for bone. According to Vari, Harold (2001) the paratype (ANSP 39291) apparently had desiccated at some point prior to being stained and it is not clear whether it also had been cleared.

Creagrutus andaki Albornoz-Garzón, Acosta-Santos, Bogotá-Gregory, Agudelo-Córdoba, 2020

Creagrutus andaki Albornoz-Garzón, Acosta-Santos, Bogotá-Gregory, Agudelo-Córdoba, 2020:366, figs. 1–3. Type locality: Colombia, Caquetá, Florencia, Río Caquetá basin, Río Hacha drainage, Río Sucre, km 61, bridge at old road to Neiva, 01°47'43.2"N, 75°38'48.9"W. Holotype: CIACOL 3462.

Distribution: 313 (Albornoz-Garzón *et al.*, 2020).

Creagrutus ardilai Ardila Rodríguez, 2021

Creagrutus ardilai Ardila Rodríguez, 2021:10, fig. 2B, 4A, 5C, 7A, 8C, 9C. Type locality: Colombia. Quebrada a 8 kilómetros del Municipio El Playón,

- Departamento de Santander. Holotype: CAR 919.
Distribution: 302 (Ardila Rodríguez, 2021).
Remarks: Named in honor to the author's brother.
- Creagrutus argos*** Ardila Rodríguez, 2020
Creagrutus argos Ardila Rodríguez, 2020b:7, figs. 1–3, 5A, 7A, 8A, 9B–B1, 10A, 11A, 12A, 13, 14A. Type locality: Colombia, Quebrada El Laurel, 317 msnm, afluyente del río Saldaña, cuenca alta del río Magdalena, municipio del Guamo, Departamento del Tolima. Holotype: CAR 900.
Distribution: 302 (Ardila Rodríguez, 2020b).
- Creagrutus atratus*** Vari, Harold, 2001
Creagrutus atratus Vari, Harold, 2001:66, figs. 24–25. Type locality: Colombia. Cundinamarca: Rio Meta basin, Rio Caqueza, tributary to Rio Negro, about 2 km upstream of village of Caqueza (latter at 4°25'N, 73°57'W). Holotype: ICN-MHN 4158. [Mojica, Agudelo–Zamora (2018:14)].
Distribution: 307 (Vari, Harold, 2001).
- Creagrutus atrisignum*** Myers, 1927
Creagrutus atrisignum Myers, 1927:116. Type locality: Brazil: Rio Maranhão (Upper Tocantins), Goyaz. Holotype: CAS 41339.
Distribution: 324 (Vari, Harold, 2001).
Remarks: One of the paratypes is not a *Creagrutus* but rather another Stevardiinae.
- Creagrutus barrigai*** Vari, Harold, 2001
Creagrutus barrigai Vari, Harold, 2001:71, fig. 27. Type locality: Ecuador. Sucumbios: Rio Aguarico, near San Pablo de Kantesiya (0°15'18"S, 76°25'30"W). Holotype: MEPN 4621.
Distribution: 313, 316 (Vari, Harold, 2001).
- Creagrutus beni*** Eigenmann, 1911
Creagrutus beni Eigenmann, 1911c:172, Pl. 6 (fig. 2). Type locality: Villa Bella on Rio Beni. [Bolivia]. Holotype: FMNH 54585. [Holotype is in poor condition].
Distribution: 318, 319 (Vari, Harold, 2001).
- Creagrutus bolivari*** Schultz, 1944
Creagrutus bolivari Schultz, 1944:334, fig. 49. Type locality: Rio Guárico and tributaries between San Sebastián and San Casimiro, Estado de Aragua. [Venezuela]. Holotype: USNM 121497.
Distribution: 307, 308 (Vari, Harold, 2001).
- Creagrutus brevipinnis*** Eigenmann, 1913
Creagrutus brevipinnis Eigenmann, 1913:10. Type locality: Piedra Moler. [Colombia]. Holotype: FMNH 56095.
Distribution: 302 (Harold, Vari, 1994).
- Creagrutus britskii*** Vari, Harold, 2001
Creagrutus britskii Vari, Harold, 2001:83, fig. 31. Type locality: Brazil. Goias: Iaciara, Ribeirao Macambira (approximately 14°20'S, 46°45'W), near bridge on highway GO 112. Holotype: MZUSP 40537.
Distribution: 322a, 324 (Meza-Vargas, 2014; Vari, Harold, 2001).
- Creagrutus cacique*** Flausino, Lima, 2019
Creagrutus cacique Flausino, Lima, 2019:2, figs. 1,2. Type locality: Brazil: Mato Grosso: Campinápolis: rio Culuene, fish ladder of Paranatinga II hydroelectric

- dam, 13°50'58"S, 53°15'22"W. Holotype: ZUEC 15770.
Distribution: 322 (Flausino, Lima 2019).
- Creagrutus calai*** Vari, Harold, 2001
Creagrutus calai Vari, Harold, 2001:85, fig. 32. Type locality: Colombia. Meta: Unnamed stream on Rancho El Viento, across Río Meta from Puerto Lopez (4°08'N, 72°39'W). Holotype: ANSP 130527.
Distribution: 307 (Vari, Harold, 2001).
- Creagrutus caucanus*** Eigenmann, 1913
Creagrutus caucanus Eigenmann, 1913:9. Type locality: Paila. [Colombia]. Holotype: FMNH 56104.
Distribution: 302 (Harold, Vari, 1994).
- Creagrutus cerritulus*** Netto-Ferreira, Vari, 2017
Creagrutus cerritulus Netto-Ferreira, Vari, 2017:369, figs. 1–4. Type locality: Peru, San Martín, Tocache, Shapaja, Río Cachiyacu, tributary of Río Huallaga, 520 m elevation, 8°17'37"S, 76°21'05"W. Holotype: MUSM 54501.
Distribution: 313 (Netto-Ferreira, Vari, 2017)
- Creagrutus changae*** Vari, Harold, 2001
Creagrutus changae Vari, Harold, 2001:88, fig. 34. Type locality: Peru. Huanuco: Provincia Pachitea, Río San Alejandro, a tributary of Río Sungarayacu, just above junction with Río Sungarayacu (approximately 9°23'S, 75°11'W). Holotype: MUSM 8858.
Distribution: 317 (Vari, Harold, 2001).
- Creagrutus cochui*** Géry, 1964
Creagrutus cochui Géry, 1964h:56, fig. 12. Type locality: Upper Amazon region surrounding Iquitos. [Peru]. Holotype: USNM 200426.
Distribution: 316 (Vari, Harold, 2001).
- Creagrutus cracentis*** Vari, Harold, 2001
Creagrutus cracentis Vari, Harold, 2001:93, fig. 36. Type locality: Brazil. Para: Rio Tapajos, sandy beaches on an island located 5 km S of Itaituba (latter locality at 4°17'S, 55°59'W). Holotype: MCP 15213.
Distribution: 320, 322 (Dagosta, Pastana, 2014; Vari, Harold, 2001).
- Creagrutus crenatus*** Vari, Harold, 2001
Creagrutus crenatus Vari, Harold, 2001:95, fig. 37. Type locality: Venezuela. Lara: Quebrada Sanare in Yay (9°45'N, 69°43'W). Holotype: MHNLS 505.
Distribution: 307 (Vari, Harold, 2001).
- Creagrutus dulima*** Albornoz-Garzón, Conde-Saldaña, García-Melo, Taphorn, Villa-Navarro, 2018
Creagrutus dulima Albornoz-Garzón, Conde-Saldaña, García-Melo, Taphorn, Villa-Navarro, 2018:342, figs. 1, 2A, 3. Type locality: Colombia, Departamento Tolima, Ibagué, upper Río Magdalena drainage, quebrada Chumba, 4°29'06"N, 75°05'49"W, elevation 973 m a.s.l. Holotype: CZUT-IC 17663.
Distribution: 302 (Albornoz-Garzón, Conde-Saldaña, García-Melo, Taphorn, Villa-Navarro, 2018).
- Creagrutus ephippiatus*** Vari, Harold, 2001
Creagrutus ephippiatus Vari, Harold, 2001:98, fig. 39. Type locality: Venezuela. Amazonas: Upper Río Siapa, Campamento Siapa (Siapa Base Camp). Holotype:

- MBUCV-V-29068.
Distribution: 314 (Vari, Harold, 2001).
- Creagrutus figueiredoi*** Vari, Harold, 2001
Creagrutus figueiredoi Vari, Harold, 2001:101, fig. 40. Type locality: Brazil. Distrito Federal: Rio Maranhao, upper Rio Tocantins basin, approximately 35 air km N of Brasilia (approximately 15° 32'S, 47° 49'W). Holotype: MZUSP 50542.
Distribution: 324 (Vari, Harold, 2001).
- Creagrutus flavescens*** Vari, Harold, 2001
Creagrutus flavescens Vari, Harold, 2001:104, fig. 41. Type locality: Ecuador. Pastaza: Rio Tiguino basin, Rio Tiguino N°3 (unnamed tributary of Rio Tiguino; 1° 07'35"S, 76° 56'52"W). Holotype: MEPN 4622.
Distribution: 313, 316 (Vari, Harold, 2001).
- Creagrutus gephyrus*** Böhlke, Saul, 1975
Creagrutus gephyrus Böhlke, Saul, 1975:25, figs. 1–4. Type locality: Rio Aguarico at Santa Cecilia, backwater. [Ecuador]. Holotype: ANSP 130516.
Distribution: 313, 316 (Vari, Harold, 2001).
- Creagrutus gracilis*** Vari, Harold, 2001
Creagrutus gracilis Vari, Harold, 2001:111, fig. 44. Type locality: Peru. Amazonas: Provincia Condorcanqui, Rio Santiago, at La Poza (4° 01'S, 77° 47'W). Holotype: LACM 41724-27.
Distribution: 313, 316 (Vari, Harold, 2001).
- Creagrutus guanes*** Torres-Mejia, Vari, 2005
Creagrutus guanes Torres-Mejia, Vari, 2005:812, fig. 1. Type locality: Colombia, Santander, Valle de San José, Río Magdalena system, Río Fonce, beside road from San Gil to Charalá, under bridge of road to Balneario Monas. Holotype: ICN-MHN 8520. [Mojica, Agudelo-Zamora, 2018:14].
Distribution: 302 (Torres-Mejia, Vari, 2005).
- Creagrutus gyrospilus*** Vari, Harold, 2001
Creagrutus gyrospilus Vari, Harold, 2001:113, fig. 45. Type locality: Venezuela. Portuguesa: Rio Saguaz, Rio Guanare-Apure drainage, bridge near park on road to Chabasquen (= Paraiso de Chabasquen; 9° 23'30"N, 70° 00'30"W). Holotype: INHS 69479.
Distribution: 307 (Vari, Harold, 2001).
- Creagrutus hildebrandi*** Schultz, 1944
Creagrutus hildebrandi Schultz, 1944:330, figs. 47–48. Type locality: Rio Táchira, 7 km north of San Antonio, Catatumbo system, Venezuela. Holotype: USNM 121482.
Distribution: 303 (Harold, Vari, 1994).
- Creagrutus holmi*** Vari, Harold, 2001
Creagrutus holmi Vari, Harold, 2001:116, fig. 46. Type locality: Peru. Amazonas: Provincia Utcubamba, Bagua Grande, San Antonio, Quebrada Jaimito (approximately 5° 47'S, 78° 23'W). Holotype: MUSM 5670.
Distribution: 312, 317 (Vari, Harold, 2001).
- Creagrutus hysginus*** Harold, Vari, Machado-Allison, Provenzano, 1994
Creagrutus hysginus Harold, Vari, Machado-Allison, Provenzano, 1994:975, fig. 1. Type locality: Venezuela, Estado Sucre, Rio Guiria, near La Toma. Holotype:

- MBUCV-V-20310.
 Distribution: 309 (Vari, Harold, 2001).
- Creagrutus ignotus*** Vari, Harold, 2001
Creagrutus ignotus Vari, Harold, 2001:122, fig. 48. Type locality: Brazil. Mato Grosso: Riacho (small stream) 1, tributary to Rio Preto at road to San Francisco, Municipio de Diamantino (Rio Arinos basin). Holotype: MZUSP 45310.
 Distribution: 320, 322a (Meza-Vargas, 2014; Vari, Harold, 2001).
- Creagrutus jordanensis*** Ardila Rodríguez, 2021
Creagrutus jordanensis Ardila Rodríguez, 2021:9, fig. 2A, 3B, 5B, 6B, 8B, 9B. Type locality: Colombia. Río Chicamocha, cuenca del río Magdalena, municipio de Jordán (425msmn), Departamento de Santander. Holotype: CAR 890.
 Distribution: 302 (Ardila Rodríguez, 2021).
- Creagrutus kunturus*** Vari, Harold, Ortega, 1995
Creagrutus kunturus Vari, Harold, Ortega, 1995:290, figs. 1–2. Type locality: Peru, Departamento Amazonas, Provincia Condorcanqui, Cordilera del Condor, upper Río Comainas, 20 m upriver of Puesto de Vigilancia N°. 22 (hereafter cited as PV 22) (3° 56'30"S, 78° 24'20"W). Holotype: MUSM 5667.
 Distribution: 313, 316 (Vari *et al.*, 1995).
 Remarks: Very similar to *C. amoenus*, but not syntopic with it.
- Creagrutus lassoï*** Vari, Harold, 2001
Creagrutus lassoï Vari, Harold, 2001:128, fig. 52. Type locality: Venezuela. Yaracuy: Río Tupe, Río Aroa drainage, approximately 12 km N of Aroa, on Highway 3 (10° 30'19"N, 68° 52'33"W). Holotype: INHS 60094.
 Distribution: 304 (Vari, Harold, 2001).
- Creagrutus lepidus*** Vari, Harold, Lasso, Machado-Allison, 1993
Creagrutus lepidus Vari, Harold, Lasso, Machado-Allison, 1993:352, fig. 1. Type locality: Río Aroa basin, Quebrada El Charal, Finca El Jaguar, Sierra de Aroa, State of Yaracuy, Venezuela (approx. 10° 32'N, 68° 32'W). Holotype: MHNLS 9659.
 Distribution: 304 (Vari *et al.*, 1993).
- Creagrutus machadoi*** Vari, Harold, 2001
Creagrutus machadoi Vari, Harold, 2001:134, fig. 54. Type locality: Venezuela. Bolivar: Departamento Cedeño, upper Río Caura, Cano Yumucukena, within 4 km of its mouth. Holotype: MCNG 18852.
 Distribution: 308 (Vari, Harold, 2001).
- Creagrutus maculosus*** Román-Valencia, García-Alzate, Ruiz-C., Taphorn B., 2010
Creagrutus maculosus Román-Valencia, García-Alzate, Ruiz-C., Taphorn B., 2010c:88, figs. 1–8. Type locality: Colombia: Meta State: Vista Hermosa municipality, Buenos Aires Village, Guadualito Creek drainage, 3° 05'34"N, 73° 51'53"W). Holotype: IUQ 2506.
 Distribution: 307 (Román-Valencia *et al.*, 2010c).
- Creagrutus magdalenae*** Eigenmann, 1913
Creagrutus magdalenae Eigenmann, 1913:8. Type locality: Girardot. Holotype: FMNH 56088.
 Distribution: 302 (Harold, Vari, 1994).
- Creagrutus magoi*** Vari, Harold, 2001

- Creagrutus magoi* Vari, Harold, 2001:137, fig. 55. Type locality: Venezuela. Bolivar. Rio Chaviripa, where crossed by bridge on road from Caicara to San Fernando de Atabapo (approximately 7° 11'N, 66° 18'W). Holotype: UF 80477.
Distribution: 308 (Vari, Harold, 2001).
- Creagrutus manu*** Vari, Harold, 2001
Creagrutus manu Vari, Harold, 2001:140, fig. 56. Type locality: Peru. Madre de Dios: Provincia Manu, Rio Manu basin, Parque Nacional Manu, Quebrada Agua Clara, first major quebrada on trail 1 leading from Pakitza (approximately 11° 57'S, 71° 17'W). Holotype: MUSM 8867.
Distribution: 318 (Vari, Harold, 2001).
- Creagrutus maracaiboensis*** (Schultz, 1944)
Creagrutops maracaiboensis Schultz, 1944:327, figs. 45–46. Type locality: Río Negro below mouth of Río Yasa. Holotype: USNM 121531.
Distribution: 318 (Harold, Vari, 1994).
- Creagrutus mariposa*** Ardila Rodríguez, 2021
Creagrutus mariposa Ardila Rodríguez, 2021:5, fig. 1, 3A, 5A, 6A, 8A, 9A. Type locality: Colombia. Quebrada La Ruitoca (En Pozo Azul), Vereda del Valle de Ruitoque, 965 mns, afluente del río de Oro, cuenca alta del río Lebrija, cuenca del río Magdalena, municipio de Floridablanca, Departamento de Santander. Holotype: CAR 877.
Distribution: 302 (Ardila Rodríguez, 2021).
- Creagrutus martinezi*** Ardila Rodríguez, 2021
Creagrutus martinezi Ardila Rodríguez, 2021:12, fig. 2C, 4B, 5D, 7B, 8D, 9D. Type locality: Colombia. Quebrada La Salitre, cuenca del río Magdalena, Municipio de San Vicente de Chucurí, Departamento de Santander. Holotype: CAR 905.
Distribution: 302 (Ardila Rodríguez, 2021).
- Creagrutus maxillaris*** (Myers, 1927)
Creagrudite maxillaris Myers, 1927:118. Type locality: Brazil: Sandbank on the Colombian border, Rio Negro, Cucuhy. Holotype: CAS 30419.
Distribution: 308, 314, 318 (Vari, Harold, 2001).
- Creagrutus melanzonus*** Eigenmann, 1909
Creagrutus melanzonus Eigenmann, 1909a:30. Type locality: Crab Falls. [Guyana]. Holotype: FMNH 52705.
Distribution: 310, 311 (Vari, Harold, 2001).
- Creagrutus melasma*** Vari, Harold, Taphorn, 1994
Creagrutus melasma Vari, Harold, Taphorn, 1994:91, fig. 1. Type locality: Venezuela, Estado Guarico, Parque Nacional Guatopo, Río Orituco, first bridge along road from Santa Teresa to Altagracia. Holotype: MBUCV-V-22198.
Distribution: 304, 306, 307, 309 (Vari, Harold, 2001).
- Creagrutus menezesi*** Vari, Harold, 2001
Creagrutus menezesi Vari, Harold, 2001:153, figs. 63–64. Type locality: Brazil. Goias: Rio Tocantins basin, Ribeirao Paranoa do Meio, at road crossing 11 air km NNE of Formosa (approximately 15° 25'S, 47° 18'W). Holotype: MZUSP 50544.
Distribution: 314 (Vari, Harold, 2001).
- Creagrutus meridionalis*** Vari, Harold, 2001
Creagrutus meridionalis Vari, Harold, 2001:157, fig. 65. Type locality: Brazil. Mato

- Grosso: Ribeirao Chiqueirao (tributary of Rio Jangada that, in turn, drains into the Rio Cuiaba), approximately 21 km W of Jangada (latter locality at 15° 14'S, 56° 29'W) on road to Barra do Bugres, Municipio de Jangada. Holotype: MZUSP 50546.
- Distribution: 343 (Vari, Harold, 2001).
- Creagrutus molinus*** Vari, Harold, 2001
Creagrutus molinus Vari, Harold, 2001:159, fig. 66. Type locality: Brazil. Mato Grosso: Rio Araguaia basin, riacho (small stream) tributary to Ribeirao Lajeado, Municipio de Alto Araguaia (approximately 17° 19'S, 53° 12'W). Holotype: MZUSP 41461. [Holotype specimen was in the process of replacing its dentition in both the right dentary and premaxilla].
- Distribution: 324 (Vari, Harold, 2001).
- Creagrutus mucipu*** Vari, Harold, 2001
Creagrutus mucipu Vari, Harold, 2001:162, fig. 68. Type locality: Brazil. Goias: Municipio de Minacu, Rio Tocantins, at port of Rubao (13° 44'31"S, 48° 08'29"W). Holotype: MCP 19511.
- Distribution: 322a, 324 (Meza-Vargas, 2014; Vari, Harold, 2001; Flausino, Lima, 2019:7).
- Creagrutus muelleri*** (Günther, 1859)
Leporinus muelleri Günther, 1859:92. Type locality: Andes of Western Ecuador. Lectotype: BMNH 1858.7.25.42 (82.5 mm SL). [Designated by Vari, Harold (2001:166)].
- Distribution: 313, 316 (Vari, Harold, 2001).
- Creagrutus nigrostigmatus*** Dahl, 1960
Creagrutus nigrostigmatus Dahl, 1960a:353. Type locality: Colombia. Sucre: Tuloviejo, Cano Pechilín (approx. 9° 31'N, 75° 35'W). Neotype: ICN-MHN 989. [Designated by Harold, Vari (1994:10)].
- Distribution: 302 (Vari, Harold, 2001).
- Creagrutus nigrotaeniatus*** Dagosta, Pastana, 2014
Creagrutus nigrotaeniatus Dagosta, Pastana, 2014:572, fig. 1–5. Type locality: Brazil, Mato Grosso State, Sapezal Municipality, rio Juruena, Bacia do rio Tapajós, ca. 12° 50'59"S, 58° 55'36"W. Holotype: LIRP 8967.
- Distribution: 320 (Dagosta, Pastana, 2014).
- Creagrutus occidaneus*** Vari, Harold, 2001
Creagrutus occidaneus Vari, Harold, 2001:167, fig. 70. Type locality: Peru. Madre de Dios: Provincia Manu, Parque Nacional Manu, Pakitza, beach along Rio Manu close to mouth of Quebrada Pachija (approximately 11° 57'S, 71° 17'W). Holotype: MUSM 8869.
- Distribution: 316, 318 (Vari, Harold, 2001).
- Creagrutus ortegai*** Vari, Harold, 2001
Creagrutus ortegai Vari, Harold, 2001:170, fig. 71. Type locality: Peru. San Martin: Provincia San Martin, Banda de Shilcayo, upper portions of Quebrada Choclin, tributary to Rio Huallaga, near town of Shapaja (latter locality at 6° 36'S, 76° 16'W). Holotype: MUSM 7498.
- Distribution: 316 (Vari, Harold, 2001).
- Creagrutus ouranonastes*** Vari, Harold, 2001

- Creagrutus ouranonastes* Vari, Harold, 2001:173, fig. 72. Type locality: Peru. Apurimac: Provincia Aymaraes, Rio Chalhuanca (approximately 14°01'S, 73°11'W). Holotype: MUSM 8872.
Distribution: 312 (Vari, Harold, 2001).
- Creagrutus paraguayensis*** Mahnert, Géry, 1988
Creagrutus paraguayensis Mahnert, Géry, 1988:5, figs. 4–5, Pl. 3. Type locality: Rio Azotey à Cororo, près de l'embouchure du Rio Ypané, prov. Concepcion, Paraguay. Holotype: MHNG 2386-1.
Distribution: 343 (Vari, Harold, 2001).
- Creagrutus paralacus*** Harold, Vari, 1994
Creagrutus paralacus Harold, Vari, 1994:13, fig. 8. Type locality: Venezuela. Tachira: Rio Catatumbo basin, Rio Táchira, 7 km N of San Antonio. Holotype: USNM 121504.
Distribution: 303 (Harold, Vari, 1994).
- Creagrutus pearsoni*** Mahnert, Géry, 1988
Creagrutus pearsoni Mahnert, Géry, 1988:5. Type locality: Popoi River, Upper Beni. [Bolivia]. Lectotype: CAS 62272. [Designated by Vari, Harold (2001:180)].
Piabina beni Pearson, 1924:45, Pl. 10 (fig. 5). Type locality: Popoi River, Upper Beni. [Bolivia]. Lectotype: CAS 62272. [Designated by Vari, Harold (2001:180)]. A secondary junior homonym of *Creagrutus beni* Eigenmann, 1911. Replaced by *Creagrutus pearsoni* Mahnert, Géry, 1988.
Distribution: 318, 319 (Vari, Harold, 2001).
Remarks: Replacement for *Piabina beni* Pearson, 1924.
- Creagrutus peruanus*** (Steindachner, 1876)
Piabina peruana Steindachner, 1876b:596 [46]. Type locality: Monterico. [Peru]. Lectotype: NMW 19852 (87.0 mm SL). [Designated by Vari, Harold (2001:183)].
Creagrutus nasutus Günther, 1876:400. Type locality: Monterico, Peru. Lectotype: BMNH 1875.10.14.26 (78.9 mm SL). [Designated by Vari, Harold (2001:183)].
The species was described on the basis of specimens collected at the same type locality of its senior synonym, *Creagrutus peruanus*.
Distribution: 312 (Vari, Harold, 2001).
Remarks: Priority of *Piabina peruana* over *Creagrutus nasutus* given by date of publication (former is dated December 1875, but published in 1876 and latter is dated May, 1876).
- Creagrutus petilus*** Vari, Harold, 2001
Creagrutus petilus Vari, Harold, 2001:184, fig. 78. Type locality: Brazil. Rondonia: Rio Marco Rondon, Pimenta Bueno (approximately 11°29'S, 61°12'W). Holotype: MNRJ 14807.
Distribution: 321 (Vari, Harold, 2001).
- Creagrutus phasma*** Myers, 1927
Creagrutus phasma Myers, 1927:117. Type locality: Venezuela: mouth of the Curamuni, Rio Cassiquiare. Lectotype: CAS 44210. [Designated by Vari, Harold (2001:188)].
Distribution: 308, 314 (Vari, Harold, 2001).
- Creagrutus pila*** Vari, Harold, 2001
Creagrutus pila Vari, Harold, 2001:189, fig. 80. Type locality: Peru. Ucayali: Provincia

- Padre Abad, Rio Huacamayo, km 155 on Highway (Carratera Federico Basadre) from Pucallpa to Tingo Maria. Holotype: MUSM 8874.
Distribution: 317 (Vari, Harold, 2001).
- Creagrutus planquettei*** Géry, Renno, 1989
Creagrutus planquettei Géry, Renno, 1989:1, fig. 1. Type locality: Crique Japigny, Arataye, affluent de l'Approuague en amont de Pierrette, Guyane. Holotype: MNHN 1989-0031.
Distribution: 311 (Vari, Harold, 2001).
- Creagrutus provenzanoi*** Vari, Harold, 2001
Creagrutus provenzanoi Vari, Harold, 2001:195, fig. 84. Type locality: Venezuela. Amazonas: Upper Rio Cataniapo basin, small cano above Sarama Sota. Holotype: MBUCV-V-14392.
Distribution: 308 (Vari, Harold, 2001).
- Creagrutus runa*** Vari, Harold, 2001
Creagrutus runa Vari, Harold, 2001:198, fig. 85. Type locality: Brazil. Amazonas: Rio Negro, Parana do Jacare (approximately 0°30'S, 66°30'W). Holotype: MZUSP 29888.
Distribution: 314 (Vari, Harold, 2001).
- Creagrutus saxatilis*** Vari, Harold, 2001
Creagrutus saxatilis Vari, Harold, 2001:200, fig. 86. Type locality: Brazil. Goiás: Niquelandia, Rio Indaial, left bank tributary of Rio Maranhao, upper Rio Tocantins basin (14°12'S, 48°37'W). Holotype: MNRJ 14544.
Distribution: 324 (Vari, Harold, 2001).
- Creagrutus seductus*** Vari, Harold, 2001
Creagrutus seductus Vari, Harold, 2001:202, fig. 87. Type locality: Brazil. Mato Grosso: Upper Rio Araguaia basin, Corrego Fundo, Municipio de Barra do Garcas (approximately 15°53'S, 52°15'W). Holotype: MZUSP 51026.
Distribution: 307, 314 (Vari, Harold, 2001).
- Creagrutus taphorni*** Vari, Harold, 2001
Creagrutus taphorni Vari, Harold, 2001:205, fig. 88. Type locality: Venezuela. Guarico: Rio Orituco, Parque Nacional Guatopo, first bridge along road from Santa Teresa to Altigracia. Holotype: MBUCV-V-29288.
Distribution: 307 (Vari, Harold, 2001).
- Creagrutus tuyuka*** Vari, Lima, 2003
Creagrutus tuyuka Vari, Lima, 2003:583, fig. 1. Type locality: Brazil, Amazonas, Rio Tiquié, comunidade de Cachoeira Comprida, beach below the cachoeira (0°15'44"N, 70°01'05.2"W). Holotype: MZUSP 65679.
Distribution: 314 (Vari, Harold, 2001).
- Creagrutus unguis*** Vari, Harold, 2001
Creagrutus unguis Vari, Harold, 2001:209, fig. 89. Type locality: Peru. Madre de Dios: Provincia Manu, Quebrada Soga, tributary of Rio Alto Madre de Dios, 1 km upstream from Erika (opposite Salvacion; approximately 12°53'S, 71°12'W). Holotype: MUSM 8878.
Distribution: 318 (Vari, Harold, 2001).
- Creagrutus varii*** Ribeiro, Benine, Figueiredo, 2004
Creagrutus varii Ribeiro, Benine, Figueiredo, 2004:598, figs. 1–10. Type locality:

- Brazil: Goiás, Município de Catalão, Rio São Marcos basin (tributary of Rio Paranaíba basin), Córrego da Prata (17° 47'26"S, 47° 35'48"W). Holotype: LIRP 4342.
- Distribution: 344 (Ribeiro *et al.*, 2004).
- Creagrutus veruina*** Vari, Harold, 2001
Creagrutus veruina Vari, Harold, 2001:213, fig. 91. Type locality: Venezuela. Amazonas: Rio Cataniapo, 200 m above Las Pavas. Holotype: MBUCV-V-29072.
 Distribution: 308 (Vari, Harold, 2001).
- Creagrutus vexillapinnus*** Vari, Harold, 2001
Creagrutus vexillapinnus Vari, Harold, 2001:215, fig. 92. Type locality: Brazil. Amazonas: Rio Negro, Cachoeira de Sao Gabriel (0° 08'S, 67° 05'W). Holotype: MZUSP 29894.
 Distribution: 308, 314 (Vari, Harold, 2001).
- Creagrutus xiphos*** Vari, Harold, 2001
Creagrutus xiphos Vari, Harold, 2001:218, fig. 93. Type locality: Venezuela. Bolivar: Sand bank along Rio Mato (7° 02'N, 65° 13'W). Holotype: ANSP 165815.
 Distribution: 308 (Vari, Harold, 2001).
- Creagrutus yanatili*** Harold, Salcedo, 2010
Creagrutus yanatili Harold, Salcedo, 2010:378, fig. 1. Type locality: Peru, Departamento de Cuzco, Provincia de La Convención, Río Urubamba (Ucayali Dr.), vicinity of Chaullay, 13° 00'48"S, 72° 38'31"W). MUSM 24082.
 Distribution: 312 (Harold, Salcedo, 2010).
- Creagrutus yudja*** Netto-Ferreira, Moreira, 2018
Creagrutus yudja Netto-Ferreira, Moreira, 2018:251, fig. 1. Type locality: Brazil, Pará, Altamira, Praia do Levi, Rio Iriri, Rio Xingu basin, 3° 50'37"S, 52° 44'03"W. Holotype: MNRJ 48662.
 Distribution: 322 (Netto-Ferreira, Moreira, 2018).
- Creagrutus zephyrus*** Vari, Harold, 2001
Creagrutus zephyrus Vari, Harold, 2001:220, fig. 94. Type locality: Venezuela. Amazonas: Rio Casiquiare, playa and backwater about 2 km downstream from mouth of Rio Pamoni (2° 48'N, 65° 57'W). Holotype: ANSP 161238.
 Distribution: 307, 314 (Vari, Harold, 2001).

CTENOBRYCON Eigenmann, 1908

RC Benine

- Ctenobrycon*** Eigenmann, 1908:94. Type species: *Tetragonopterus hauxwellianus* Cope, 1870. Type by original designation. Gender: Masculine.
- Apodastyanax*** Fowler, 1911a:422. Type species: *Apodastyanax stewardsoni* Fowler, 1911. Type by original designation. Gender: Masculine.
- Ctenobrycon oliverai*** Benine, Lopes, Ron, 2010
Ctenobrycon oliverai Benine, Lopes, Ron, 2010:60, figs. 1–2. Type locality: río Apure, West of Ciudad de Apure, State of Apure, Venezuela. Holotype: MZUSP 50130.
 Distribution: 307, 308 (Benine *et al.*, 2010).
- Ctenobrycon spilurus*** (Valenciennes, 1850)
Tetragonopterus spilurus Valenciennes, in Cuvier, Valenciennes, 1850:156. Type

- locality: Surinam. Syntypes: MNHN 0000-5341 (2).
- Tetragonopterus hauxwellianus* Cope, 1870:560. Type locality: Pebas, Ecuador. [currently Peru]. Lectotype: ANSP 8137. [Designated by Fowler (1906:340, fig. 28). Treated as holotype in Böhlke (1984:48)]. Benine *et al.* (2010) discussed that there is no evidence to consider *C. hauxwellianus* as an independent specific unit from *C. spilurus*.
- Tetragonopterus multiradiatus* Steindachner, 1876c:92 [44]. Type locality: Amazonenstrom bei Teffé. [Brazil]. Syntypes: (several) not found at NMW.
- Tetragonopterus gibbicervix* Pellegrin, 1909d:152. Type locality: Teffé, Tonnantins, Tabatinga. [Brazil]. Syntypes: MNHN 1909-0182 (1) Tabatinga, 1909-0320 (1) Tonnantins, 1909-0321 (2) Teffé; NMW 57516 (1).
- Apodastyanax stewardsoni* Fowler, 1911a:422, fig. 2. Type locality: Corisal, Venezuela. Holotype: ANSP 37867.
- Ctenobrycon rhabdops* Fowler, 1913b:537, fig. 10. Type locality: Igarapé de Candelaria (about 2 miles from the Madeira River, into which it empties), in Lat. S. 8° 45', Long W 63° 54', Brazil. Holotype: ANSP 39220.
- Distribution: 311, 315, 316, 318, 319, 321, 324 (Lopes, 2009).

CTENOCHEIRODON Malabarba, Jerep, 2012

FC Jerep, LR Malabarba, J Chuctaya

Ctenocheiroduon Malabarba, Jerep, 2012:243. Type species: *Ctenocheiroduon pristis* Malabarba, Jerep, 2012. Type by original designation. Gender: Masculine.

Ctenocheiroduon pristis Malabarba, Jerep, 2012

Ctenocheiroduon pristis Malabarba, Jerep, 2012:245, figs. 1–4. Type locality: Brazil, Goiás, Nova Roma, Rio Tocantins basin, affluent of Rio Paranã, 13° 48' 48.5"S, 46° 52' 13"W. Holotype: UFRGS 15606.

Distribution: 324 (Malabarba, Jerep, 2012).

CYANOGASTER Mattox, Britz, Toledo-Piza, Marinho, 2013 **M Toledo-Piza**

Cyanogaster Mattox, Britz, Toledo-Piza, Marinho, 2013:300. Type species: *Cyanogaster noctivaga* Mattox, Britz, Toledo-Piza, Marinho, 2013. Type by original designation. Gender: Feminine.

Cyanogaster noctivaga Mattox, Britz, Toledo-Piza, Marinho, 2013

Cyanogaster noctivaga Mattox, Britz, Toledo-Piza, Marinho, 2013:300, figs. 1–8. Type locality: Brazil: Amazonas: Santa Isabel do Rio Negro, rock plateau along Rio Negro, near mouth of Rio Urubaxi, 0° 35' 05.3"S, 64° 49' 12.2"W. Holotype: MZSUP 111126.

Distribution: 314 (Mattox *et al.*, 2013).

CYNOPOTAMUS Valenciennes, 1850

V Giovannetti

Cynopotamus Valenciennes, in Cuvier, Valenciennes, 1850:316. Type species:

Hydrocyon argenteus Valenciennes, 1847. Type by subsequent designation by Eigenmann, 1912a:403. Gender: Masculine.

Hybocharax Géry, Vu, 1963:240. Type species: *Cynopotamus bipunctatus* Pellegrin, 1909. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Cynopotamus*.

Cynopotamus amazonum (Günther, 1868)

Anacrytus (Cynopotamus) amazonum Günther, 1868a:481. Type locality: Xeberos. [(= Jeberos) probably at Aipana river, tributary of Huallaga river, Peru]. Syntypes: BMNH 1867.6.13.69–70 (2).

Anacrytus limaesquamis Cope, 1878:686. Type locality: near Pebas. [Peru]. Lectotype: ANSP 21460. [Designated by Fowler (1907:454, fig. 44). Treated as holotype by Böhlke (1984:49)].

Distribution: 316 (Menezes, 1987b).

Cynopotamus argenteus (Valenciennes, 1837)

Hydrocyon argenteum Valenciennes, 1837:no p., Pl. 9 (fig. 1). Type locality: Buenos-Ayres. [Argentina]. Holotype: MNHN A-9846.

Characinus squamosus Eigenmann, Kennedy, 1903:525. Type locality: Laguna Pasito. [Laguna Pasito, rio Paraguay, Asunción, Paraguay]. Holotype: CAS 27615.

Charax caliurus Eigenmann, Kennedy, in Eigenmann, McAtee, Ward, 1907:142, Pl. 43 (fig. 1). Type locality: Laguna Pasito. [Laguna Pasito, rio Paraguay, Asunción, Paraguay]. Holotype: CAS 15682. Details about taxonomic status in Menezes (1987b).

Distribution: 332, 333, 343, 345 (Menezes, 2007).

Remarks: Name available from plate (1837), text with description by Valenciennes, 1847:9 as *Hydrocyon argenteus* (Menezes, 1976:22). There is some confusion in the literature regarding the dates of publication of the contents of the D'Orbigny's Voyage dans l'Amérique Méridionale. The date of the plate by Valenciennes presented here follows Sherborn, Griffin (1934).

Cynopotamus atratoensis (Eigenmann, 1907)

Charax atratoensis Eigenmann, in Eigenmann, Ogle, 1907:33, fig. 8. Type locality: Truando, Colombia. [Truando river, near Atrato river, Colombia]. Holotype: USNM 1664.

Distribution: 301 (Menezes, 2007).

Cynopotamus bipunctatus Pellegrin, 1909

Cynopotamus bipunctatus Pellegrin, 1909a:13. Type locality: Embouchure du Suripa (Vénézuéla). [Boca de Suripá, Apure river drainage, Venezuela]. Holotype: MNHN 1898-0021.

Distribution: 307 (Menezes, 1976).

Cynopotamus essequibensis Eigenmann, 1912

Cynopotamus essequibensis Eigenmann, 1912a:403. Type locality: Potaro Landing. [Lower Potaro river, Guyana]. Holotype: FMNH 53673.

Distribution: 310, 311, 315 (Menezes, 2007).

Cynopotamus gouldingi Menezes, 1987

Cynopotamus gouldingi Menezes, 1987b:2, fig. 1. Type locality: Rio Madeira at Calama, Territory of Rondônia, Brazil. Holotype: MZUSP 35474.

Distribution: 321 (Lucena, Menezes, 2003).

Cynopotamus juruena Menezes, 1987

Cynopotamus juruena Menezes, 1987b:3, fig. 2. Type locality: upper Rio Juruena, state of Mato Grosso, Brazil. Holotype: MZUSP 35475.

Distribution: 320 (Menezes, 1987b).

Cynopotamus kincaidi (Schultz, 1950)

Cyrtocharax kincaidi Schultz, 1950:60. Type locality: Paraguay. Holotype: USNM 1694.

Cynopotamus zettii Iriart, 1979:4, fig. 2. Type locality: Riacho “Carrizal”, Bella Vista, Corrientes, República Argentina. Holotype: CIPBV 120. Synonymy proposed by Braga, 1994:10.

Distribution: 343, 345 (Menezes, 2007b).

Cynopotamus magdalena (Steindachner, 1879)

Anacyrus (Cynopotamus) magdalena Steindachner, 1879e:78 [62], Pl. 12 (fig. 2). Type locality: Magdalena Stomes. [Colombia]. Syntypes: NMW 62501–02 (2, 2), 62504–05 (1, 2), 77769 (1).

Distribution: 302.

Cynopotamus tocantinensis Menezes, 1987

Cynopotamus tocantinensis Menezes, 1987b:5, fig. 3. Type locality: Igarapé Pojuca, Rio Itacaiunas, Serra dos Carajás, State of Pará, Brazil. Holotype: MZUSP 35492.

Distribution: 324 (Menezes, 1987).

Cynopotamus venezuelae (Schultz, 1944)

Cyrtocharax magdalena venezuelae Schultz, 1944:298, fig. 37. Type locality: Río Negro below mouth of Río Yasa, Maracaibo Basin. [Venezuela]. Holotype: USNM 121390.

Distribution: 303 (Lucena, Menezes, 2003).

Cynopotamus xinguano Menezes, 2007

Cynopotamus xinguano Menezes, 2007:56, fig. 1. Type locality: rio Culuene, 13° 49'S, 53° 15'W, Paranatinga, State of Mato Grosso, Brazil. Holotype: MZUSP 94009.

Distribution: 322 (Menezes, 2007).

DECTOBRYCON Zarske, Géry, 2006

MMF Marinho

Dectobrycon Zarske, Géry, 2006a:32. Type species: *Dectobrycon armeniacus* Zarske, Géry, 2006. Type by original designation. Gender: Masculine.

Dectobrycon armeniacus Zarske, Géry, 2006

Dectobrycon armeniacus Zarske, Géry, 2006a:33, figs. 1–7. Type locality: Peru. [Aquarium imported fish with no further detail]. Holotype: MTD F 28525.

Distribution: 316 (Zarske, Géry, 2006a).

DEUTERODON Eigenmann, 1907

ZMS Lucena, VA Bertaco, AM Zanata, O Santos

Deuterodon Eigenmann, in Eigenmann, McAtee, Ward, 1907:140. Type species: *Deuterodon iguape* Eigenmann, 1907. Type by monotypy. Gender: Masculine.

Joinvillea Steindachner, 1908g:29. Type species: *Joinvillea rosae* Steindachner, 1908. Type by monotypy. Gender: Feminine.

Probolodus Eigenmann, 1911. Type species: *Probolodus heterostomus* Eigenmann, 1911. Type by original designation. Gender: Masculine. Synonymy proposed by Terán *et al.* (2020)

Distoechus Gomes, 1947:12. Type species: *Distoechus stigmaturus* Gomes, 1947. Type by original designation. Gender: Masculine.

Myxiops Zanata, Akama, 2004:46. Type species: *Myxiops aphos* Zanata, Akama, 2004. Type by original designation. Gender: Masculine. Synonymy proposed by Terán *et al.* (2020)

Deuterodon aphos (Zanata, Akama, 2004)

Myxiops aphos Zanata, Akama, 2004:47, figs. 1–2, 4–6. Type locality: Brazil, Bahia, Lençóis, rio Lençóis, tributary of rio Paraguaçu, 3 km upstream of Lençóis city, above Cachoeira do Serrano, 12°34'S, 41°22'W. Holotype: MZUSP 81026.

Distribution: 328 (Zanata, Akama, 2004).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon burgerai (Zanata, Camelier, 2009)

Astyanax burgerai Zanata, Camelier, 2009:180, figs. 6–7. Type locality: Brazil, Bahia State, Almadina, córrego Água Boa on road between Floresta Azul and Almadina, tributary of riacho Pancadinha, itself a tributary of rio Almada, 14°44'42"S, 39°38'40"W. Holotype: MZUSP 101245.

Distribution: 328 (Zanata, Camelier, 2009).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon giton (Eigenmann, 1908)

Astyanax giton Eigenmann, 1908:97. Type locality: Rio Parahyba. [Brazil, rio Paraíba do Sul, Rio de Janeiro State, between Barra do Piraí and Três Rios, along the old road Imperador D. Pedro II (Melo, 2001)]. Lectotype: MCZ 20936. [Designated by Eigenmann (1921)].

Distribution: 329 (Melo, 2001).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon hamatilis (Camelier, Zanata, 2014)

Astyanax hamatilis Camelier, Zanata, 2014b:477, figs. 1–4. Type locality: Brazil, Bahia State, Lençóis, São José Village, Rio Utinga, tributary of Rio Santo Antônio, on road BR 242, Rio Paraguaçu basin; 12°30' 14.7"S, 41°12' 24.1"W, 363 m above sea level. Holotype: MZUSP 111500.

Distribution: 328 (Camelier, Zanata, 2014b).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon hastatus (Myers, 1928)

Astyanax hastatus Myers, 1928:87. Type locality: Vicinity of the city of Rio de Janeiro. [Myers wrote in the description (p. 88): "All of the specimens were presented to me by Mr. Richard Dorn, who received them as living aquarium fishes directly from Mr. R. Brocca, of Rio de Janeiro. The fishes were said to have been collected in the vicinity of the city, but there is a possibility of their having come from any of a number of places in southeastern Brazil"]. Holotype: USNM 92952.

Distribution: 352 (Melo, 2001).

Remarks: Species redescribed by Melo (2001); Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon heterostomus (Eigenmann, 1911)

Probolodus heterostomus Eigenmann, 1911:164, Pl. 4 (fig. 1). Type locality: Campos. [Rio Paraíba do Sul basin, Campos, Rio de Janeiro, Brazil (Santos, Castro, 2014)].

Holotype: FMNH 54328.

Distribution: 329 (Santos, Castro, 2014:405).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon iguape Eigenmann, 1907

Deuterodon iguape Eigenmann, in Eigenmann, McAtee, Ward, 1907:140, Pl. 41 (fig. 3). Type locality: Iguape. [São Paulo, Brazil (Lima *et al.*, 2003)]. Holotype: CAS 44226.

Distribution: 330 (Lima *et al.*, 2007; Lucena *et al.*, 2002).

Deuterodon intermedius (Eigenmann, 1908)

Astyanax scabripinnis intermedius Eigenmann, 1908:98. Type locality: Rio Parahyba and Santa Clara. [Rio Parahyba: rio Paraíba do Sul, near city of Rio de Janeiro (Melo, 2001); Santa Clara: rio Mucuri, Santa Clara, Bahia (Melo, 2001), Brazil]. Lectotype: MCZ 20684. [Designated by Melo (2001:17)].

Distribution: 329, 352 (Melo, 2001).

Remarks: Species redescribed by Melo (2001). Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon janeiroensis (Eigenmann, 1908)

Astyanax janeiroensis Eigenmann, 1908:96. Type locality: Rio de Janeiro. [Brazil]. Holotype: MCZ 21057.

Distribution: 329, 352 (Melo, 2001).

Remarks: Species redescribed by Melo (2001); Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon langei Travassos, 1957

Deuterodon langei Travassos, 1957a:81, figs. 9–10. Type locality: Córrego da Divisa - Pôrto de Cima - Paraná. [Brazil]. Holotype: MNRJ 8534.

Deuterodon amniculus Lucena, Lucena, 1992:127, fig. 5. Type locality: Santa Catarina: arroio Lindo, ao lado da SC 301 próximo do entroncamento com a BR 101, Pirabeiraba, Joinville (aprox. 48°57'W, 26°10'S). [Brazil]. Holotype: MCP 14755. Current status of species assigned by Lucena, Lucena (2002).

Deuterodon garujo Lucena, Lucena, 1992:130, fig. 5. Type locality: Santa Catarina: rio Garuvá, sob a ponte na BR 101 cerca de 2 Km da divisa Santa Catarina/Paraná, Garuvá (aprox. 25°59'S, 48°55'W). [Brazil]. Holotype: MCP 14754. Current status of species assigned by Lucena, Lucena (2002).

Distribution: 331 (Lima *et al.*, 2007).

Deuterodon longirostris (Steindachner, 1907)

Tetragonopterus fasciatus var. *longirostris* Steindachner, 1907b:481 [7]. Type locality: dem Flusse Cubataõ. [rio Cubatão (Sul), municipality of Águas Mornas, Santa Catarina. Exact location discussed by Lucena, Lucena (1990)]. Syntypes NMW 57508 (2), NMW 57633 (4). 17 specimens whereabouts unknown. [The lots NMW 57508 (2), and NMW 57633 (4) are the only syntypes in the collection

(pers. comm. of Dr. Anja Palandacic, collection manager of the fish collection of Naturhistorisches Museum Wien)].

Distribution: 331 (Lima *et al.*, 2007; Lucena, Lucena, 1990).

Deuterodon luetkenii (Boulenger, 1887)

Tetragonopterus Luetkenii Boulenger, 1887a:173. Type locality: San Lorenzo, Rio Grande do Sul. [Brazil]. Syntypes: BMNH 1885.2.3.78–80 (3), 1886.3.15.35–38 (4). [One of the syntypes (BMNH 1885.2.3.78–80, 34.4 mm SL), is *Hyphessobrycon igneus*. (Carvalho, Langeani, 2013)].

Distribution: 343, 344, 335, 333, 332, 334, 345 (Weiss, 2013).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon mutator (Eigenmann, 1909)

Astyanax mutator Eigenmann, 1909a:18. Type locality: Savannah Landing, Upper Potaro River. [Guyana]. Holotype: FMNH 52688.

Distribution: 310 (Eigenmann, 1909a).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon oyakawai (Santos, Castro, 2014)

Probolodus oyakawai Santos, Castro, 2014:409, figs. 1, 5–6. Type locality: Brazil, São Paulo, município de Iporanga, rio Ribeira de Iguape basin, 24°34'22"S, 48°33'34"W. Holotype: MZUSP 114013.

Distribution: 330 (Santos, Castro, 2014:405).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon parahybae Eigenmann, 1908

Deuterodon parahybae Eigenmann, 1908:99. Type locality: Itapemirim. [Brazil]. Syntypes: MCZ 20933 (8).

Distribution: 328 (Lima *et al.*, 2007).

Remarks: The species was considered as *Incertae sedis* in Characidae by Lucena, Lucena (2002) because it lacks the synapomorphies proposed by those authors for *Deuterodon*.

Deuterodon pedri Eigenmann, 1908

Deuterodon pedri Eigenmann, 1908:98. Type locality: Not given. [Type-locality later mentioned by Eigenmann (1927:348) – Rio San Antonio, Santa Anna de Ferros (Thayer Expedition)]. Lectotype: MCZ 21081. [Designated by Lucena, Lucena (2013:598)]. See Lucena, Lucena (2013) and Silva *et al.* (2017) for discussion about type specimens].

Distribution: 328 (Lima *et al.*, 2007; Silva *et al.*, 2017).

Remarks: The species was considered as *Incertae sedis* in Characidae by Lucena, Lucena (2002) because it lacks the synapomorphies proposed by those authors for *Deuterodon*. Silva *et al.* (2017) used morphological and molecular analysis (including ancient DNA extraction from the lectotype) to establish the identity of *D. pedri* and redescribed the species based also on recently collected specimens from the type locality and nearby localities.

Deuterodon pelecus (Bertaco, Lucena, 2006)

Astyanax pelecus Bertaco, Lucena, 2006:56, figs. 4–5. Type locality: rio Pardo on road BR116, Cândido Sales, Bahia, Brazil, 15°30'49"S, 41°14'11"W. Holotype: MCP 37570.

Distribution: 328 (Bertaco, Lucena, 2006).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon potaroensis Eigenmann, 1909

Deuterodon potaroensis Eigenmann, 1909a:27. Type locality: Amatuk Cataract, Potaro River. [Guyana]. Holotype: FMNH 52967.

Distribution: 310 (Reis *et al.*, 2003).

Remarks: The species was considered as *Incertae sedis* in Characidae by Lucena, Lucena (2002) because it lacks the synapomorphies proposed by those authors for *Deuterodon*.

Deuterodon ribeirae (Eigenmann, 1911)

Astyanax ribeirae Eigenmann, 1911c:177, Pl. 8 (fig. 2). Type locality: Xiririca. [rio Ribeira de Iguape, Brazil (Eigenmann, 1911a:307)]. Holotype: FMNH 54725.

Distribution: 330, 331, 335 (Garavello, Sampaio, 2010; Weiss, 2013).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon rosae (Steindachner, 1908)

Joinvillea rosae Steindachner, 1908g:30. Type locality: Rio Jaraguá bei Joinville im Staat S. Catharina (Brasilien). [Brazil]. Lectotype: NMW 69596 (105 mm). [Designated by Lucena, Lucena (1992:138)].

Distribution: 331 (Lima *et al.*, 2007).

Deuterodon sazimai (Santos, Castro, 2014)

Probolodus sazimai Santos, Castro, 2014:312, figs. 7–9. Type locality: Brazil, Minas Gerais, município de Ipatinga, rio Taquaruçu, tributary of rio Doce basin, 19°27'S 42°28'59"W. Holotype: MCP 47870.

Distribution: 328 (Santos, Castro, 2014:405).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

Deuterodon singularis Lucena, Lucena, 1992

Deuterodon singularis Lucena, Lucena, 1992:141, fig. 11. Type locality: Santa Catarina: rio Sanga de Areia, Gravatal (aprox. 28°33'S, 49°06'W). [Brazil]. Holotype: MCP 14753.

Distribution: 331 (Lucena, Lucena, 2002).

Deuterodon stigmaturus (Gomes, 1947)

Distoechus stigmaturus Gomes, 1947:13, fig. 2, Pl. 1 (fig. 2). Type locality: backwater of Rio Maquiné, a tributary to Lagôa dos Quadros, Conceição do Arroio County, Rio Grande do Sul, Brazil. [Conceição do Arroio County (renamed Osório, in 1934), Lucena, Lucena (1992)]. Holotype: UMMZ 143273.

Distribution: 335 (Lucena, Lucena, 1992; Reis, Schaefer, 1998).

Deuterodon supparis Lucena, Lucena, 1992

Deuterodon supparis Lucena, Lucena, 1992:148, fig. 12. Type locality: Santa Catarina: afluyente do rio Itajaí-Açu, estrada Blumenau - Rio do Sul (BR 470), próximo a Ibirama (aprox. 27°04'S, 49°33'W). Holotype: MCP 14752.

Distribution: 331 (Lima *et al.*, 2007).

Deuterodon taeniatus (Jenyns, 1842)

Tetragonopterus taeniatus Jenyns, 1842:126. Type locality: running brook at Socego, in the province of Rio de Janeiro. [type locality clarified by Silva *et al.*, 2019. Lectotype from: Brazil, Rio de Janeiro, Socego farm (presently Conceição de Macabu, Córrego das Aduelas, rio Macaé basin, approximately 22°11'53"S, 41°50'24"W). Lectotype: UMZC F.6975. [Designated by Silva *et al.*, 2019:114].

Distribution: 329, 352 (Melo, 2001; Silva *et al.*, 2019:114).

Remarks: Placed in *Deuterodon* by Terán *et al.* (2020:7).

DIAPOMA Cope, 1894

NA Menezes, P Camelier, LR Malabarba

Diapoma Cope, 1894b:67. Type species: *Diapoma speculiferum* Cope, 1894. Type by monotypy. Gender: Neuter.

Cyanocharax Malabarba, Weitzman, 2003:95. Type species: *Cyanocharax macropinna* Malabarba, Weitzman, 2003. Type by original designation. Gender: Masculine. Additional comments: Considered a synonym of *Diapoma* Cope, 1894 by Thomaz *et al.*, 2015:20 and Ito *et al.*, 2022.

Diapoma alburnum (Hensel, 1870)

Tetragonopterus alburnus Hensel, 1870:85. Type locality: Rio Cadea. [Rio Cadeia]. Holotype: ZMB 7477.

Astyanax hasemani Eigenmann, in Eigenmann, Henn, Wilson, 1914:10. Type locality: Porto Alegre. [Brazil]. Holotype: FMNH 56659. [Ibarra, Stewart, 1987]. Distribution: 332, 333, 334, 335 (Bertaco *et al.*, 2016; Malabarba, 1983).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Diapoma alegretense (Malabarba, Weitzman, 2003)

Cyanocharax alegretensis Malabarba, Weitzman, 2003:128, figs. 4, 7, 9, 15, 39–44. Type locality: Creek on road Santana do Livramento - Alegrete, Alegrete, Rio Grande do Sul, Brazil. Holotype: MCP 25974.

Distribution: 332 (Malabarba, Weitzman, 2003).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Diapoma dicropotamicus (Malabarba, Weitzman, 2003)

Cyanocharax dicropotamicus Malabarba, Weitzman, 2003:109, figs. 3, 6, 14, 24–28. Type locality: Rio Forqueta, Marquês de Souza, Lageado, Rio Grande do Sul, Brazil. Holotype: MZUSP 82262.

Distribution: 334 (Malabarba, Weitzman, 2003).

Diapoma guarani (Mahnert, Géry, 1987)

Hyphessobrycon guarani Mahnert, Géry, 1987:307, figs. 1–2. Type locality: Paraguay, dep. Alto Parana, Rio Alto Parana à Puerto Bertoni (25° 38'S, 54° 40'W), dans um bras mort du fleuve. Holotype: MHNG 2366.99.

Distribution: 344, 345 (Mahnert, Géry, 1987; Carvalho, Langeani, 2013).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Diapoma itaimbe (Malabarba, Weitzman, 2003)

Cyanocharax itaimbe Malabarba, Weitzman, 2003:97, figs. 13, 17–23. Type locality: Arroio Facão at Mãe dos Homens, tributary rio Canoas - rio Mampituba, Praia Grande, Santa Catarina, Brazil. Holotype: MCP 25972.

Distribution: 335 (Malabarba, Weitzman, 2003).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Diapoma lepiciastum (Malabarba, Weitzman, Casciotta, 2003)

Cyanocharax lepiciastus Malabarba, Weitzman, Casciotta, in Malabarba, Weitzman, 2003:120, figs. 33–38. Type locality: Rio Dourados, Linha Várzea, on road between Severiano de Almeida and Aratiba, Severiano de Almeida, Rio Grande

- do Sul, Brazil. Holotype: MCP 25751.
 Distribution: 333 (Malabarba, Weitzman, 2003).
 Remarks: Generic assignment based on Thomaz *et al.* (2015).
- Diapoma nandi*** Vanegas-Ríos, Azpelicueta, Malabarba, 2018
Diapoma nandi Vanegas-Ríos, Azpelicueta, Malabarba, 2018. Type locality: Argentina, Misiones Province, Eldorado, Rio Paraná basin, Piray-Mini stream, near bridge on National Route 12, c. 26°20'59"S, 54°37'05"W 128 m a.s.l. Holotype: MLP 11309.
 Distribution: 345 (Vanegas-Ríos *et al.*, 2018).
- Diapoma obi*** (Casciotta, Almirón, Piálek, Rícan, 2012)
Cyanocharax obi Casciotta, Almirón, Piálek, Rícan, 2012:42, figs. 3–6. Type locality: Argentina: Misiones: rio Paraná basin, tributary of the arroyo Paranay-Guazú, 26°52' 28.9"S, 54°42' 22.8"W. Holotype: MACN-ict 9560.
 Distribution: 345 (Casciotta *et al.*, 2012).
 Remarks: Generic assignment based on Thomaz *et al.* (2015).
- Diapoma pampeana*** Ito, Carvalho, Pavanelli, Vanegas-Ríos, Malabarba, 2022
Diapoma pampeana Ito, Carvalho, Pavanelli, Vanegas-Ríos, Malabarba, 2022:6, figs. 1–3. Type locality: Brazil, Rio Grande do Sul, Bagé, road between Aceguá and Bagé, BR-153, Cinco Saltos creek, affluent of Negro River, 31°36'53"S, 54°08'42"W. Holotype: UFRGS 28705.
 Distribution: 332 (Ito *et al.*, 2022).
- Diapoma potamohadros*** Ito, Carvalho, Pavanelli, Vanegas-Ríos, Malabarba, 2022
Diapoma potamohadros Ito, Carvalho, Pavanelli, Vanegas-Ríos, Malabarba, 2022:13, figs. 5–7. Type locality: Iguazu River, Salto Osório Reservoir, Quedas do Iguazú municipality, Paraná State, Brazil, 25°30'49"S, 53°00'04"W". Holotype: UFRGS 28700.
 Distribution: 346 (Ito *et al.*, 2022).
- Diapoma pyrrhopteryx*** Menezes, Weitzman, 2011
Diapoma pyrrhopteryx Menezes, Weitzman, 2011:76, figs. 33–39. Type locality: Rio do Peixe, tributary of rio Uruguai, Concórdia, Santa Catarina, 27°28'S, 51°53'W. [Brazil]. Holotype: MCP 44104.
 Distribution: 333 (Menezes, Weitzman, 2011).
- Diapoma speculiferum*** Cope, 1894
Diapoma speculiferum Cope, 1894b:67. Type locality: Upper waters of the Jacuhy River in the Brazilian State of Rio Grande do Sul. [Jacuhy is now written Jacuí in Portuguese]. Holotype: ANSP 21580. [Fowler (1906:334); Böhlke (1984:54)].
 Distribution: 332, 334 (Cope, 1894b; Menezes, Weitzman, 2011).
 Remarks: Species redescribed by Menezes, Weitzman, 2011.
- Diapoma terofali*** (Géry, 1964)
Glandulocauda terofali Géry, 1964e:2, fig. 1. Type locality: Canal "El Cazador", Rio Lujan (affluent du Rio de la Plata), Province de Buenos-Ayres, République Argentine. [Argentina]. Holotype: ZSM 22503a (see Neumann, 2011:245 for discussion of type series).
 Distribution: 334 (Géry, 1964e; Menezes, Weitzman, 2011).
- Diapoma thauma*** Menezes, Weitzman, 2011
Diapoma thauma Menezes, Weitzman, 2011:67, figs. 17–23. Type locality: Rio das

Antas near mouth of the rio da Prata basin, 29°04'01"S, 51°22'48"W. [(State of Rio Grande do Sul, Brazil)]. Holotype: MCP 44105.

Distribution: 334 (Menezes, Weitzman, 2011).

Diapoma tipiaia (Malabarba, Weitzman, 2003)

Cyanocharax tipiaia Malabarba, Weitzman, 2003:116, figs. 29–32. Type locality: Arroio Tipiáia, about 3 km North of Júlio de Castilhos, on road to Cruz Alta, Rio Grande do Sul, Brazil. Holotype: MCP 30471.

Distribution: 335 (Malabarba, Weitzman, 2003).

Diapoma uruguayense (Messner, 1962)

Hyphessobrycon melanopleurus uruguayensis Messner, 1962:4. Type locality: Hasta ahora lo he encontrado solamente en la vertiente del R. Uruguay. [Syntypes from arroyo Tomás Cuadra, a tributary of the rio Negro, that is a tributary of the lower rio Uruguay, Durazno, Uruguay (Lat. -33.38333; Long. -56.41667) (Malabarba *et al.*, 2004)]. Syntypes: MHNM 758 (1), MHNM 759 (1). [Olazarri *et al.*, 1970; Malabarba *et al.*, 2004].

Cyanocharax macropinna Malabarba, Weitzman, 2003:134, figs. 5, 8, 16, 45–49. Type locality: Arroio Pai-Passo, on road Santana do Livramento – Alegrete (RS 183), Quaraí, Rio Grande do Sul, Brazil. Holotype: MCP 25973.

Distribution: 332 (Malabarba, Weitzman, 2003).

Remarks: Mimiographed, but regarded as available (see Malabarba *et al.*, 2004. A transcription and clean copy published by Koerber, Litz (2011). Discussion about taxonomic status of species in Malabarba *et al.* (2004). Generic assignment based on Thomaz *et al.* (2015).

DINOPTERYGIUM Frainer, Carvalho, Bertaco, Malabarba, 2021 **LR Malabarba**

Dinopterygium Frainer, Carvalho, Bertaco, Malabarba, 2021:1137. Type species: *Dinopterygium uniodon* Frainer, Carvalho, Bertaco, Malabarba, 2021. Type by original designation. Gender: Masculine.

Dinopterygium diodon Frainer, Carvalho, Bertaco, Malabarba, 2021

Dinopterygium diodon Frainer, Carvalho, Bertaco, Malabarba, 2021:9, figs. 2, 5B, 6, 7. Type locality: Brazil, Goiás State, municipality of Teresina de Goiás, córrego Tereza at km 2 of the road GO-241, upper rio Tocantins basin, 13°47'39.6"S, 47°17'29.1"W. Holotype: MCN 18936.

Distribution: 324 (Frainer *et al.*, 2021).

Dinopterygium uniodon Frainer, Carvalho, Bertaco, Malabarba, 2021

Dinopterygium uniodon Frainer, Carvalho, Bertaco, Malabarba, 2021:5, figs. 3, 5A. Type locality: Brazil, Goiás State, municipality of Cavalcante, tributary of córrego Ave Maria at 14 km north of Cavalcante, upper rio Tocantins basin, 13°40'42"S, 47°28'22"W. Holotype: MZUSP 125875.

Distribution: 324 (Frainer *et al.*, 2021).

ECTREOPTERUS Fowler, 1943

LR Malabarba

Ectreopterus Fowler, 1943e:313. Type species: *Megalampodus uruguayensis* Fowler,

1943. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Megalamphodus*.

Ectrepopterus uruguayensis (Fowler, 1943)

Megalamphodus uruguayensis Fowler, 1943e:313, figs. 2–3. Type locality: Uruguay.

Holotype: ANSP 70331. [Malabarba *et al.*, 2012: fig. 1].

Distribution: 332 (Malabarba *et al.*, 2012).

ERETMOBRYCON Fink, 1976

LR Malabarba

Eretmobrycon Fink, 1976:332. Type species: *Eretmobrycon bayano* Fink, 1976. Type by original designation. Gender: Masculine.

Eretmobrycon bayano Fink, 1976

Eretmobrycon bayano Fink, 1976:334, figs. 1–4. Type locality: Panama, Bayano river basin, pool in small stream about 19 Km along road from El Llano to Carti, about 0.5 Km downstream from the road. Holotype: USNM 213842.

Distribution: 210 (Fink, 1976).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Eretmobrycon brevirostris (Günther, 1860)

Chalceus brevirostris Günther, 1860a:420. Type locality: Western Andes of Ecuador.

Holotype: BMNH 1860.6.16.166 (1) or 196 (1).

Distribution: 301 (Günther, 1860a).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Eretmobrycon dahli (Román-Valencia, 2000)

Bryconamericus dahli Román-Valencia, 2000:451, fig. 1. Type locality: Colombia, Departamento de Nariño, sistema del río Patia, cuenca del río Telembi, Quebrada Babosa afluente do río Sabunde, en la vía a Tumaco km. 98, a dos km. de la margen derecha (aprox. 78° 23'W, 1° 37'N). Holotype: ICNMMNH 2722.

Distribution: 301 (Román-Valencia, 2000).

Remarks: Generic assignment based on Thomaz *et al.* (2015). See Maldonado-Ocampo *et al.* (2012:92–93) for information on the species; Synonymy with *Eretmobrycon guaytarae* (Eigenmann, Henn, 1914), suggested by García-Melo *et al.*, 2019:10.

Eretmobrycon emperador (Eigenmann, Ogle, 1907)

Astyanax emperador Eigenmann, Ogle, 1907:26. Type locality: Empire Station, Panama. [Canal Zone, Río Chagres basin, Panama]. Holotype: USNM 55651.

Bryconamericus ortholepis Eigenmann, 1913:15. Type locality: Boca de Raspadura. [Colombia]. Holotype: FMNH (missing).

Bryconamericus scopiferus Eigenmann, 1913:16. Type locality: Istmina, Rio San Juan. [Colombia]. Holotype: FMNH 56224.

Bryconamericus juanensis Regan, 1913b:464. Type locality: Rio Condoto, Rio San Juan and Rio Tamana. [Colombia]. Syntypes: (10) BMNH 1913.10.1.22–25 (4).

Bryconamericus rubricauda Regan, 1913b:464. Type locality: Rio Condoto. [Colombia]. Syntypes: (8) BMNH 1913.10.1.26–32 (7 or 8).

Bryconamericus cascajalensis Meek, Hildebrand, 1916:284, Pl. 19. Type locality: Rio

- Cascajal, Porto Bello, Panama. Holotype: FMNH 8946.
- Bryconamericus zeteki* Hildebrand, 1938:267, fig. 4. Type locality: a creek in El Valle, Pacific slope, Panama. Holotype: USNM 106511. Synonymy proposed by Román-Valencia, 2002a.
- Bryconamericus baudoensis* Fowler, 1944:231, figs. 3–4. Type locality: Rio Baudó, at 1200 feet elevation, Chocó Province, Colombia. Holotype: ANSP 71425.
- Distribution: 210, 209, 208, 301.
- Remarks: Generic assignment based on Thomaz *et al.* (2015). Redescription, synonymy and distribution in Román-Valencia (2002a); see also Maldonado-Ocampo *et al.* (2012:94–95). García-Melo *et al.*, 2019 indicated that there is hidden biodiversity within *Eretmobrycon emperador*, and that some synonyms must be reviewed.
- Eretmobrycon festae*** (Boulenger, 1898)
- Tetragonopterus festae* Boulenger, 1898a:2. Type locality: Rio Vincés. [Ecuador]. Syntypes: BMNH 1898.11.4.65–70 (6), MSNG 34953 (1), MZUF 2698 (1), MZUT 1743 (1).
- Distribution: 301 (Boulenger, 1898a).
- Remarks: Placed in *Eretmobrycon* by Terán *et al.* (2020:6).
- Eretmobrycon gonzalezi*** (Román-Valencia, 2002)
- Bryconamericus gonzalezoi* Román-Valencia, 2002a:180, fig. 2. Type locality: río Bongie (9° 21'35"N, 82° 36'35"W). [Panama]. Holotype: IUQ 377.
- Distribution: 207 (Román-Valencia, 2002a).
- Remarks: Generic assignment based on Thomaz *et al.* (2015). Originally *gonzalezoi*; emended to *gonzalezi* (Fricke *et al.*, 2022).
- Eretmobrycon guaytarae*** (Eigenmann, Henn, 1914)
- Bryconamericus scopiferus guaytarae* Eigenmann, Henn, in Eigenmann, Henn, Wilson, 1914:7. Type locality: Patia at mouth of Rio Guaytara. [Colombia]. Holotype: FMNH 56657.
- Distribution: 301 (Eigenmann, Henn, 1914).
- Remarks: Generic assignment based on Thomaz *et al.* (2015).
- Eretmobrycon ichoensis*** (Román-Valencia, 2000)
- Bryconamericus ichoensis* Román-Valencia, 2000:455, fig. 3. Type locality: Colombia, Departamento del Chocó, Municipio de San Francisco de Ichó, Alto Atrato, Quebrada Chaparradó, afluente del Río Ichó em la vía Tutunendo–San Francisco de Ichó, (aprox. 5° 38'N, 76° 38'W). Holotype: ICN-MNH 2718. [Mojica, Agudelo-Zamora, 2018:12].
- Distribution: 301 (Román-Valencia, 2000).
- Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015); placed in *Eretmobrycon* by García-Melo *et al.*, 2019:10.
- Eretmobrycon miraensis*** (Fowler, 1945)
- Bryconamericus miraensis* Fowler, 1945c:99, fig. 4. Type locality: Ricaurte on the Rio Guebo at 3900 feet elevation, in basin of Rio Mira, Nariño, Pacific Slope of Southwest Colombia. Holotype: ANSP 71686.
- Distribution: 301 (Fowler, 1945c).
- Remarks: Generic assignment based on Thomaz *et al.* (2015). See Maldonado-Ocampo *et al.* (2012:90–91) for information on the species.

Eretmobrycon peruanus (Müller, Troschel, 1845)

Tetragonopterus peruanus Müller, Troschel, 1845:28, Pl. 8 (fig. 1). Type locality: Peru. [two individuals collected near Lima and one individual from the Lurin River].
Syntypes: ZMB 3591–92 (2, 1).

Distribution: 301, 336 (Román-Valencia *et al.*, 2011).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Eretmobrycon scleroparius (Regan, 1908)

Tetragonopterus scleroparius Regan, 1908b:455. Type locality: Rio Iroquois. [Costa Rica]. Lectotype: BMNH 1909.3.13.30. [Designated by Román-Valencia (2002a:176)].

Bryconamericus peruanus ricao Eigenmann, 1908:106. Type locality: Chitaria, Costa Rica. Lectotype: FMNH 59523. [Designated by Grey (1947:127)].

Distribution: 207, 205, 204 (Román-Valencia, Vanegas-Rios, 2009; Bussing, 1998).

Remarks: Generic assignment based on Thomaz *et al.* (2015). Redescription, synonymy and distribution in Román-Valencia (2002); distribution in Costa Rica and ecological notes in Bussing (1998). Date of publication of *Tetragonopterus scleroparius* Regan is 1/November/1908 (Evenhuis, 2003:38) and has priority over *Bryconamericus peruanus ricao* Eigenmann with publication date on December 1908.

Eretmobrycon simus (Boulenger, 1898)

Tetragonopterus simus Boulenger, 1898a:2. Type locality: Péten lake, Guatemala and western Ecuador. Syntypes: BMNH 1898.11.4.71–73 (3), MSNG 35974 (3), MZUT 1527 (many).

Distribution: 301 (Boulenger, 1898a).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Eretmobrycon terrabensis (Meek, 1914)

Bryconamericus terrabensis Meek, 1914:108. Type locality: Rio Grande de Térraba, Costa Rica. Syntypes: BMNH (3).

Distribution: 206 (Meek, 1914; Bussing, 1998; Román-Valencia, Vanegas-Rios, 2009).

Remarks: Generic assignment based on Thomaz *et al.* (2015). Redescription and distribution in Román-Valencia (2002); but incorrectly attributed to Regan; distribution in Costa Rica and ecological notes in Bussing (1998).

ERYTHROCHARAX Netto-Ferreira, Birindelli, de Sousa, Mariguela, Oliveira, 2013 **MMF Marinho**

Erythrocharax Netto-Ferreira, Birindelli, de Sousa, Mariguela, Oliveira, 2013:2. Type species: *Erythrocharax altipinnis* Netto-Ferreira, Birindelli, de Sousa *et al.*, 2013. Type by original designation. Gender: Masculine.

Erythrocharax altipinnis Netto-Ferreira, Birindelli, de Sousa, Mariguela, Oliveira, 2013

Erythrocharax altipinnis Netto-Ferreira, Birindelli, de Sousa, Mariguela, Oliveira, 2013:2, figs. 1–6. Type locality: Brazil, Pará, rio Curuá, tributary of rio Iriri, on bridge of BR-163, 8°53'54"S, 54°59'20"W, rio Xingu Basin. Holotype: BMNH

1864.1.21.81.

Distribution: 112 (Netto-Ferreira *et al.*, 2013).

EXODON Müller, Troschel, 1844

CAS Lucena, O Santos

Exodon Müller, Troschel, 1844:91. Type species: *Exodon paradoxus* Müller, Troschel, 1844. Type by monotypy. Gender: Masculine.

Hystericodon Günther, 1864:349. Type species: *Exodon paradoxus* Müller, Troschel, 1845. Type by being a replacement name. Gender: Masculine. Additional comments: Unneeded replacement for *Exodon*, wrongly thought preoccupied.

Exodon paradoxus Müller, Troschel, 1844

Exodon paradoxus Müller, Troschel, 1844:91. Type locality: “Hab. in Guiana”. [Guyana]. Syntypes: ZMB 3609 (2).

Epicyrthus exodon Valenciennes, in Cuvier, Valenciennes, 1850:46. Type locality: de l’Amazone. No types known.

Distribution: 309, 310, 315, 316, 322, 323, 324 (Muller, Troschel, 1844; Eigenmann, 1912a; Ferreira *et al.*, 2007; Ribeiro, 2008; Empresa de pesquisa Energética, 2008; Gonzales *et al.*, 2009; Mérona *et al.*, 2010; Bartolette *et al.*, 2012).

GALEOCHARAX Fowler, 1910

V Giovannetti

Galeocharax Fowler, 1910:790. Type species: *Cynopotamus gulo* Cope, 1870. Type by original designation. Gender: Masculine.

Galeocharax goeldii (Fowler, 1913)

Charax goeldii Fowler, 1913b:568, fig. 22. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. Holotype: ANSP 39308.

Distribution: 318, 319, 321 (Giovannetti *et al.*, 2017).

Galeocharax gulo (Cope, 1870)

Cynopotamus gulo Cope, 1870:565. Type locality: Pebas, Eastern Peru. Lectotype: ANSP 8053. [Designated by Fowler (1907:459). Treated as holotype in Böhlke (1984:47) and Giovannetti *et al.*, 2017].

Anacyrtus (Cynopotamus) knerii Steindachner, 1879e:65 [49]. Type locality: Cujaba, Rio Paraguay, Irisanga. [Rio Oriçanga, Estiva Gerbi, São Paulo, Brazil]. Syntypes: NMW 62660 (2). Synonymy discussed by Giovannetti *et al.* (2017).

Distribution: 308, 309, 311, 313, 316, 317, 320, 324, (Giovannetti *et al.*, 2017).

Remarks: Synonymy with *Anacyrtus (Cynopotamus) knerii* Steindachner, 1879, questioned by Souza *et al.*, 2022 based on molecular data.

Galeocharax humeralis (Valenciennes, 1834)

Hydrocyon humeralis Valenciennes, 1834:no p., Pl. 11 (fig. 2). Type locality: Buénos-Ayres. [Market in Buenos Aires, Argentina; Valenciennes, 1850 stated that, at the time, the fishes in the market were from the Rio de la Plata basin]. Holotype: MNHN A-9848.

Distribution: 332, 333, 343, 344 (Giovannetti *et al.*, 2017).

GENYCHARAX Eigenmann, 1912

FCP Dagosta

Genycharax Eigenmann, 1912b:22. Type species: *Genycharax tarpon* Eigenmann, 1912. Type by original designation. Gender: Masculine.

Genycharax tarpon Eigenmann, 1912

Genycharax tarpon Eigenmann, 1912b:22. Type locality: Cartago. [Upper Cauca river basin, Colombia]. Holotype: FMNH 56018.

Distribution: 302 (Eigenmann, 1912b).

Remarks: A game fish (Eigenmann, 1912b).

GEPHYROCHARAX Eigenmann, 1912

NA Menezes, P Camelier

Gephyrocharax Eigenmann, 1912b:23. Type species: *Gephyrocharax chocoensis* Eigenmann, 1912. Type by original designation. Gender: Masculine.

Corynopomops Fowler, 1943c:6. Type species: *Corynopomops opisthopterus* Fowler, 1943. Type by original designation. Gender: Masculine.

Remarks: Monophyly of the genus corroborated by Vanegas-Ríos, 2017.

Gephyrocharax atracaudatus (Meek, Hildebrand, 1912)

Deuterodon atracaudata Meek, Hildebrand, 1912:68. Type locality: Rio Frijoles, C. Z., Panama. Holotype: FMNH 7573. [Holotype with body partially scaleless and poorly colored, but fins and teeth are in good conditions (Vanegas-Ríos, 2016:15)].

Distribution: 208, 209, 210 (Meek, Hildebrand, 1912; Vanegas-Ríos, 2016).

Gephyrocharax caucanus Eigenmann, 1912

Gephyrocharax caucanus Eigenmann, 1912b:24. Type locality: Cartago. [Upper Cauca river basin, Colombia, . Eigenmann's original description (1912b) did not report the precise drainage where the holotype was collected. The only geographic datum reported by Eigenmann (1912b) was the city of Cartago, but since this city is drained by several tributaries from the Cauca and La Vieja rivers, it was not possible to identify a specific drainage for the holotype (Vanegas-Ríos, 2016:21)]. Holotype: FMNH 56012.

Distribution: 302, 305 (Eigenmann, 1912b; Vanegas-Ríos, 2016).

Gephyrocharax chocoensis Eigenmann, 1912

Gephyrocharax chocoensis Eigenmann, 1912b:23. Type locality: Istmina. [Chocó Region, Colombia. According to Vanegas-Ríos (2016:28), the type locality of *G. chocoensis* is imprecise, but it can be some drainage within the San Juan River basin or more probably in this river itself, since Istmina is located near the river]. Holotype: FMNH 56016.

Distribution: 301 (Eigenmann, 1912b).

Gephyrocharax intermedius Meek, Hildebrand, 1916

Gephyrocharax intermedius Meek, Hildebrand, 1916:278. Type locality: Rio Chame, Panama. Holotype: FMNH 8945. [caudal damaged].

Gephyrocharax whaleri Hildebrand, 1938:254, fig. 2. Type locality: Rio Chame or a near-by stream, Pacific slope, Panama. Holotype: USNM 106513. Status of

species discussed by Venegas-Ríos (2016).

Distribution: 206, 208, 209 (Meek, Hildebrand, 1916; Vanegas-Ríos, 2016).

Gephyrocharax machadoi Ferreira, Faria, Ribeiro, Santana, Quagio-Grassiotto, Menezes, 2018

Gephyrocharax machadoi Ferreira, Faria, Ribeiro, Santana, Quagio-Grassiotto, Menezes, 2018:162, figs. 1–2, 4–8. Type locality: Brazil, Mato Grosso, Tangará da Serra, Rio Sepotuba (14°30'05"S, 57°34'39"W). Holotype: CPUFMT 2429.

Distribution: 343 (Ferreira, Faria, Ribeiro, Santana, Quagio-Grassiotto, Menezes, 2018).

Gephyrocharax major Myers, 1929

Gephyrocharax major Myers, in Eigenmann, Myers, 1929:479. Type locality: Popoi R., Upper Beni. [La Plaz, Bolivia]. Lectotype: CAS 44286. [Designated by Vanegas-Ríos (2016:42)].

Gephyrocharax chaparae Fowler, 1940b:70, 91, figs. 25–27. Type locality: Todos Santos, Rio Chapare, Bolivia. Holotype: ANSP 68967. Status of species discussed by Venegas-Ríos (2016).

Corynopomops opisthopterus Fowler, 1943c:6, fig. 4. Type locality: Todos Santos, Bolivia. Holotype: ANSP 69195.

Distribution: 312, 317, 318, 337 (Eigenmann, Myers, 1929; Vanegas-Ríos, 2016).

Gephyrocharax martaе Dahl, 1943

Gephyrocharax martaе Dahl, 1943:218 [4], fig.: pg. 5. Type locality: Rio Batatal, tributary of Rio San Jorge, Magdalena system. Municipio of Ayapel, department of Bolivar, Republic of Colombia. Altitude approx. 800 m. [According to Venegas-Ríos (2016:52), the type locality is located in the Corregimiento of Uré, Montelíbano county, southeast of the Córdoba department in the limits with the Antioquia department]. Holotype: MZLU L939/3703. [The holotype is currently in a poor state of conservation, being faded and dehydrated. The posteriormost unbranched anal-fin ray, portions of the caudal-fin lobes, and left-side opercle are broken (Vanegas-Ríos, 2016:52)].

Distribution: 302 (Dahl, 1943; Vanegas-Ríos, 2016).

Gephyrocharax melanocheir Eigenmann, 1912

Gephyrocharax melanocheir Eigenmann, 1912b:24. Type locality: Bernal creek. [According to Venegas-Ríos (2016:52), the type locality is Bernal creek near Honda, Tolima, Colombia]. Neotype: FMNH 125572. [Designated by Vanegas-Ríos (2016:58) from paratype series FMNH 69554. According to that author, the holotype (FMNH 56049) designated by Eigenmann (1912b) is considered effectively lost since 2013].

Distribution: 302, 304 (Eigenmann, 1912b; Vanegas-Ríos, 2016).

Gephyrocharax sinuensis Dahl, 1964

Gephyrocharax sinuensis Dahl, in Dahl, Medem, 1964:64, fig.: pg. 64. Type locality: de Esmeraldas, Alto Sinú. [Colombia]. Neotype: ICN-MHN 18999. [Designated by Vanegas-Ríos (2016:62) from paratypes series ICN-MHN 749. Additional information about the neotype designation in Venegas-Ríos (2016:65); Mojica, Agudelo-Zamora, 2018:15)].

Distribution: 302 (Dahl, Medem, 1964).

Gephyrocharax torresi Vanegas-Ríos, Azpelicueta, Mirande, García Gonzales, 2013

Gephyrocharax torresi Vanegas-Ríos, Azpelicueta, Mirande, García Gonzales, 2013:378, figs. 1–4. Type locality: Colombia, Santander, El Carmen, río Magdalena basin, río La Colorada basin, río Cascajales system, río Sucio basin, Caño Volador, 6°39'56.44"N, 73°34'47.36"W, approximately 338 m a.s.l. Holotype: UIST 1767.

Distribution: 302 (Vanegas-Ríos *et al.*, 2013; Vanegas-Ríos, 2016).

***Gephyrocharax valencia* Eigenmann, 1920**

Gephyrocharax valencia Eigenmann, 1920:11. Type locality: Maracay, Lake Valencia off dock of Paper Mill. [Aragua, Venezuela]. Holotype: CAS 44297.

Distribution: 304, 306, 307, 308 (Eigenmann, 1920; Vanegas-Ríos, 2016).

***Gephyrocharax venezuelae* Schultz, 1944**

Gephyrocharax venezuelae Schultz, 1944:324, fig. 44. Type locality: Río San Juan at the bridge south of Mene Grande, Motatán system. [Trujillo, Venezuela]. Holotype: USNM 121369.

Distribution: 303, 304 (Schultz, 1944; Vanegas-Ríos, 2016).

Remarks: According to Venegas-Ríos (2016:81), 1 of 11 paratype specimens of *G. venezuelae* (USNM 121363) reported by Schultz (1944) corresponds to an unidentified species.

GLANDULOCAUDA Eigenmann, 1911

NA Menezes, P Camelier

***Glandulocauda* Eigenmann, 1911c:168.** Type species: *Glandulocauda melanogenys* Eigenmann, 1911. Type by original designation. Gender: Feminine.

***Glandulocauda caerulea* Menezes, Weitzman, 2009**

Glandulocauda caerulea Menezes, Weitzman, 2009:317. Type locality: Serinha Paraná, Rio Iguassú. [Brazil, Paraná, Serrinha, rio Iguacu, approximately 25°43'S, 49°44'W (Menezes, Weitzman, 2009:323). Holotype: FMNH 54895.

Glandulocauda melanopleura Eigenmann, 1911c:170, Pl. 5 (fig. 7). Type locality: Serinha Paraná, Rio Iguassú. Holotype: FMNH 54895. Secondarily preoccupied in *Glandulocauda* by *Hyphessobrycon melanopleurus* Ellis, 1911; replaced by *Glandulocauda caerulea* Menezes, Weitzman, 2009.

Distribution: 346 (Menezes, Weitzman, 2009).

Remarks: Replacement for *Glandulocauda melanopleura* Eigenmann, 1911 (Menezes, Weitzman, 2009).

***Glandulocauda melanopleura* (Ellis, 1911)**

Hyphessobrycon melanopleurus Ellis, 1911:157, Pl. 3 (fig. 2). Type locality: Alto da Serra, São Paulo. [Brazil, São Paulo, Santo André, Alto da Serra, headwaters of rio Tietê, approximately 23°45'S, 46°20'W (Menezes, Weitzman, 2009). Additional information in Menezes, Weitzman (2009)]. Holotype: FMNH 54413.

Glandulocauda melanogenys Eigenmann, 1911c:168, Pl. 5 (fig. 6). Type locality: Alto da Serra, São Paulo. [Brazil, São Paulo, Santo André, Alto da Serra, headwaters of rio Tietê, approximately 23°45'S, 46°20'W (Menezes, Weitzman, 2009). Additional information about type locality in Menezes, Weitzman (2009)]. Holotype: FMNH 54891.

Distribution: 330, 344 (Menezes, Weitzman, 2009).

Remarks: The studies of Ellis (1911) and Eigenmann (1911c) are part of the same volume published on December 1911. Menezes, Weitzman, 2009:315 proposed *Glandulocauda melanogenys* Eigenmann as a junior synonym and thus acted as first revisers.

GRUNDULUS Valenciennes, 1846

LR Malabarba

Grundulus Valenciennes, in Cuvier, Valenciennes, 1846:216. Type species: *Poecilia bogotensis* Humboldt, 1821. Type by monotypy. Gender: Masculine.

Rhodeoides Thominot, 1884:149. Type species: *Rhodeoides vaillanti* Thominot, 1884. Type by monotypy. Gender: Masculine.

Ctenocharax Regan, 1907b:403. Type species: *Ctenocharax bogotensis* Regan, 1907. Type by monotypy. Gender: Masculine.

Grundulus bogotensis (Humboldt, 1821)

Poecilia bogotensis Humboldt, in Humboldt, Valenciennes, 1821:154, Pl. 45 (fig. 1).

Type locality: du plateau de Bogota. [Humboldt, Valenciennes (1821) refers the species (“The Guapucha”) as inhabiting, perhaps exclusively, at a height of 1360 toises (approx. 2,650m) above sea level, in the Bogota river, Santa-Fe plateau, Colombia]. Neotype: ZMB 33306. [Román-Valencia *et al.* (2003) listed possible syntypes and selected one as a neotype for the species. In such a case, the selected specimen would become a lectotype and not neotype, and the remaining specimens would become paralectotypes. There is no evidence, however, that the specimens listed as syntypes by Román-Valencia *et al.* (2003) are syntypes. So, ZMB 33306 is actually a valid neotype and no original type specimens are known for the species].

Ctenocharax bogotensis Regan, 1907b:403. Type locality: Hab. Bogota. A single specimen, 63 mm. In total length, purchased in 1868. [Colombia]. Holotype: BMNH 1868.3.4.1.

Distribution: 302 (Román-Valencia *et al.*, 2010).

Grundulus cochae Román-Valencia, Paepke, Pantoja, 2003

Grundulus cochae Román-Valencia, Paepke, Pantoja, 2003:53, figs. 1, 3a–6a. Type locality: Colombia, Nariño, Pasto, vereda Romerillo, laguna de la Cocha (01°05'22"N, 77°09'50"W, 2809 m.s.n.m). Holotype: IUQ 453.

Distribution: 312 (Román-Valencia *et al.*, 2010).

Grundulus quitoensis Román-Valencia, Ruiz C., Barriga, 2005

Grundulus quitoensis Román-Valencia, Ruiz C., Barriga, 2005:538, fig. 1. Type locality: Ecuador, provincia de carchi, lagunas El Voladero reserva biológica El Angel (0°40'N, 77°52'W) 3680 m.s.n.m. Holotype: MEPN 1637.

Distribution: 301 (Román-Valencia *et al.*, 2010).

Species inquirenda (Grundulus)

Rhodeoides vaillanti Thominot, 1884:149–150. Type locality: Rio Chénéché, l'un des affluents du Magdalena à une altitude de 2000 mètres dans la province de Nein. [Colombia]. Syntypes: MNHN 2506, MNHN 2507. [Holotype unknown]

according to Lima *et al.*, 2003, but syntypes listed as MNHN 2506 (2) (Fricke *et al.*, 2022)].

Remarks: Considered as species *inquirenda* by Lima *et al.*, 2003.

GYMNOCHARACINUS Steindachner, 1903

CR Moreira

Gymnocharacinus Steindachner, 1903b:20. Type species: *Gymnocharacinus bergii* Steindachner, 1903. Type by monotypy. Gender: Masculine.

Gymnocharacinus bergii Steindachner, 1903

Gymnocharacinus bergii Steindachner, 1903a:18. Type locality: Südliches Argentinien, aus einem Bache, der sich nach kurzem Laufe im Sand verliert. [Tributary of Río Negro at Somuncurá Plateau, Argentina]. Syntypes: NMW 69429 (1), uncatalogued (1, skeleton).

Distribution: 348 (López *et al.*, 2008).

GYMNOCORYMBUS Eigenmann, 1908

RC Benine

Gymnocorymbus Eigenmann, 1908:93. Type species: *Gymnocorymbus thayeri* Eigenmann, 1908. Type by original designation. Gender: Masculine.

Gymnocorymbus bondi (Fowler, 1911)

Phenacogaster bondi Fowler, 1911a:419, fig. 1. Type locality: Corisal, Venezuela. Holotype: ANSP 37863.

Moenkhausia profunda Eigenmann, 1912a:322, Pl. 46 (fig. 1). Type locality: Cloaca trenches, Issorora Rubber Plantation. [Guyana]. Holotype: FMNH 53717. Synonymy proposed by Benine *et al.*, 2015.

Gymnocorymbus socolofi Géry, 1964c:25, figs. 1–2. Type locality: Río Manacacias into upper Río Meta at Restrepo, Colombia. Holotype: USNM 198646.

Distribution: 307, 308, 309 (Benine *et al.*, 2015).

Gymnocorymbus flaviolimai Benine, Melo, Castro, Oliveira, 2015

Gymnocorymbus flaviolimai Benine, Melo, Castro, Oliveira, 2015:21, figs. 8a, 13. Type locality: Rio Guaporé, Costa Marques, Rondônia, Brazil, 12°26'42.0"S, 64°13'37.9"W. Holotype: INPA 47805.

Distribution: 318, 319, 321 (Benine *et al.*, 2015).

Gymnocorymbus ternetzi (Boulenger, 1895)

Tetragonopterus ternetzi Boulenger, 1895a:528. Type locality: Descalvados, Mato Grosso. [Mato Grosso, Brazil]. Lectotype: BMNH 1885.5.17.163. [Designated in Benine *et al.* (2015)].

Distribution: 329, 343, 344, 345 (Menni, 2004; Benine *et al.*, 2015; Moraes *et al.*, 2017).

Gymnocorymbus thayeri Eigenmann, 1908

Gymnocorymbus thayeri Eigenmann, 1908:93. Type locality: Amazons from Tabatinga to Gurupa. [Brazil, Amazonas, Tefé, Rio Solimões]. Lectotype: MCZ 89967. [Designated in Benine *et al.* (2015)].

Distribution: 310, 311, 313, 314, 323, 325 (Benine *et al.*, 2015).

HASEMANIA Ellis, 1911

JP Serra, F Langeani

Hasemania Ellis, 1911:148. Type species: *Hasemania melanura* Ellis, 1911. Type by original designation. Gender: Feminine.

Pristicharax Fowler, 1949a:1. Type species: *Pristicharax hanseni* Fowler, 1949. Type by original designation. Gender: Masculine.

Hasemania crenuchoides Zarske, Géry, 1999

Hasemania crenuchoides Zarske, Géry, 1999a:91, figs. 1–2. Type locality: Corrego Planaltina, oberer Rio Sao Bartolomeu (mündend in den Rio Corumba, Nebenfluß des Rio Paranaíba, La-Plata-System), 1050 m über NN, nahe Planaltina, nordöstl. von Brasília, Distrito Federal, Bundesstaat Goiás, Brasilien, etwa 15°38' südl. Breite und 47°40' westl. Länge. [Brasil]. Holotype: MZUSP 52732.

Distribution: 324, 344 (Aquino *et al.*, 2014; Serra, Langeani, 2015).

Remarks: Status and redescription discussed and presented by Serra (2003) and Serra, Langeani (2015).

Hasemania hanseni (Fowler, 1949)

Pristicharax hanseni Fowler, 1949a:1, figs. 1–6. Type locality: Goiaz, Brazil. [no specific locality information provided in the original description]. Holotype: ANSP 72104.

Distribution: 344a (Serra, 2003).

Remarks: Status and redescription of species discussed and presented by Böhlke (1958a); status and redescription discussed and presented by Serra (2003).

Hasemania kalunga Bertaco, Carvalho, 2010

Hasemania kalunga Bertaco, Carvalho, 2010:28, figs. 1–2. Type locality: Brazil, Goiás State, Cavalcante, córrego in the road GO 241 between Cavalcante and Minaçu, tributary of rio das Almas, rio Paranã drainage, upper rio Tocantins basin, 1163 m a.s.l., 13°36'56.7"S, 47°31'06.6"W. Holotype: MCP 44289.

Distribution: 324 (Bertaco, Carvalho, 2010).

Hasemania maxillaris Ellis, 1911

Hasemania maxillaris Ellis, 1911:148, Pl. 1 (fig. 1). Type locality: Porto União, Rio Iguassú. [Rio Iguazu between Porto União (Santa Catarina State) and União da Vitória (Paraná state), Brazil]. Holotype: FMNH 54303.

Distribution: 346 (Serra *et al.*, 2008a).

Remarks: Status and redescription discussed and presented by Serra (2003); species considered endemic to the rio Iguassu ecoregion by Reis *et al.* (2020).

Hasemania melanura Ellis, 1911

Hasemania melanura Ellis, 1911:149, Pl. 1 (fig. 2). Type locality: Porto União, Rio Iguassú. [Rio Iguazu between Porto União (Santa Catarina State) and União da Vitória (Paraná state), Brazil]. Holotype: FMNH 54384.

Distribution: 346 (Serra *et al.*, 2008b).

Remarks: Status and redescription discussed and presented by Serra (2003); species considered endemic to the rio Iguassu ecoregion by Reis *et al.* (2020).

Hasemania nambiquara Bertaco, Malabarba, 2007

Hasemanian nambiquara Bertaco, Malabarba, 2007:350, figs. 1–3. Type locality: Brazil, Mato Grosso, Comodoro, Rio Doze de Outubro on the highway BR 364 between Comodoro and Vilhena, tributary of Rio Juruena, upper Rio Tapajós drainage, 12°58'39"S, 60°00'30"W. Holotype: MCP 38390.

Distribution: 320 (Bertaco, Malabarba, 2007).

Hasemanian nana (Lütken, 1875)

Tetragonopterus nanus Lütken, 1875c:133 [7]. Type locality: Lacu Lagoa Santa dicto nec non in rivulis nonnullis vicinis. [Lake at Lagoa Santa (Minas Gerais State), Brazil]. Syntypes: USNM 44958 (4) from Lütken; MNHN 0000-9584 (5); SMNS 2048 (5, lost); ZMB 9202 (5, poor condition); ZMUC 664–678 (15), 900–916 (17).

Hasemanian marginata Meinken, 1938:225, figure: pg. 225. Type locality: Südöstliches Brasilien, genauer Fangplatz unbekannt. [Southeastern Brazil]. Syntypes: NMB. status of species discussed by Géry (1972c).

Distribution: 327 (Lima *et al.*, 2003; Serra, 2003, Silva *et al.*, 2020).

Remarks: status of species discussed by Géry (1972c); status and redescription discussed and presented by Serra (2003). Böhlke, 1958a:45 referred to the species as *Hemigrammus nanus*, including only those specimens without an adipose fin as restricted by Lütken, 1875c and Meinken, 1939, respectively under *Tetragonopterus nanus* and *Hasemanian marginata*.

Hasemanian piatan Zanata, Serra, 2010

Hasemanian piatan Zanata, Serra, 2010:22, figs. 1–3. Type locality: Bahia, Brazil, município de Piatã, riacho Três Morros around bridge on road between Piatã and Núbia, tributary of rio de Contas, 13°04'43"S, 41°51'44"W, 1.340 m a.s.l. Holotype: MZUSP 104538.

Distribution: 328 (Zanata, Serra, 2010).

Remarks: Species considered endemic to the Bahia part of the Northeastern Mata Atlântica ecoregion by Silva *et al.* (2020).

Hasemanian uberaba Serra, Langeani, 2015

Hasemanian uberaba Serra, Langeani, 2015:480, figs. 1–3. Type locality: Brazil, Minas Gerais, Ponte Alta, Serra do Groirão, road BR 262, headwaters of rio Uberaba, córrego São Pedro, rio Grande basin, upper rio Paraná, 1020 m.a.s.l., 19°40'59"S, 47°40'09"W. Holotype: DZSJP 18781.

Distribution: 344 (Serra, Langeani, 2015).

HEMIBRYCON Günther, 1864

VA Bertaco

Hemibrycon Günther, 1864:318, 330. Type species: *Tetragonopterus polyodon* Günther, 1864. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Tetragonopterus*.

Hemibrycon andresoi (Román-Valencia, 2003)

Bryconamericus andresoi Román-Valencia, 2003b:33, figs. 1–2. Type locality: Colombia, Departamento de Nariño, Municipio El Tambo, corregimiento de Ricaurte, vereda Los Llanos de Manchabajoy, límites Chacaguí- El Peñol, cuenca alta del río Patia, afluente río Juanambú, quebrada San José

(1°23'57,5"N,77°20'35,9"W) 1300 m s.n.m. Holotype: IUQ 447.

Distribution: 301 (Román-Valencia, 2003b).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015). Included in *Hemibrycon* by García-Melo *et al.* (2018:2). See Maldonado-Ocampo *et al.* (2012:90–91) for information on the species.

Hemibrycon antioquiae Román-Valencia, Ruiz-C., Taphorn C., Mancara-Rodrigues, García-Alzate, 2013

Hemibrycon antioquiae Román-Valencia, Ruiz-C., Taphorn C., Mancara-Rodrigues, García-Alzate, 2013:1376, fig. 5. Type locality: state of Antioquia, San Rafael County, below Playas Reservoir, Peñoles Creek, a tributary of the Guatapé River, Middle Magdalena River Basin, 06°16'26.7"N, 75°05'22.9"W, 1 201 m.a.s.l. [Colombia]. Holotype: IUQ 3189.

Distribution: 302 (Román-Valencia, Ruiz-C., Taphorn C., Mancara-Rodrigues, García-Alzate, 2013).

Hemibrycon arilepis (Román-Valencia, Vanegas-Ríos, Ruiz-C., 2008)

Bryconamericus arilepis Román-Valencia, Vanegas-Ríos, Ruiz-C., 2008:1755, fig. 1. Type locality: Colombia, Santander, Charalá, vereda La Pontesuela, Magdalena medio, cuenca del Río Fonce, Quebrada La Pontesuela em la boca de la quebrada Coclina, en la escuela Carrillo, vía Cantera a Encino (6°10'42"N, 73°09'44"W) 1457 m snm. Holotype: IUQ 1917.

Distribution: 302 (Román-Valencia *et al.*, 2008).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015). Included in *Hemibrycon* by García-Melo *et al.* (2018:2).

Hemibrycon beni Pearson, 1924

Hemibrycon beni Pearson, 1924:42, Pl. 2 (fig. 6). Type locality: Espia. [Bolivia]. Syntypes: (48) CAS 44333 (29), 44334 (now 60); UMMZ 66504 (16); USNM 117543 (2). Additional material: CAS 44335 (6).

Distribution: 318 (Bertaco, Malabarba, 2010).

Hemibrycon boquiae (Eigenmann, 1913)

Bryconamericus boquiae Eigenmann, 1913:20. Type locality: Boquia. [Colombia]. Holotype: FMNH 56259.

Hemibrycon boquillae Eigenmann, 1922:152, 153. Type locality: Boquia. [Colombia]. Holotype: FMNH 56259. Unjustified emendation and objective synonym of *Hemibrycon boquiae* (Eigenmann, 1913).

Distribution: 302 (Eigenmann, 1913).

Hemibrycon brevispini Román-Valencia, Arcila-Mesa, 2009

Hemibrycon brevispini Román-Valencia, Arcila-Mesa, 2009:80, figs. 1–3. Type locality: Colombia, Quindío, Alto Cauca, río Quindío, Venada Creek, afl. Santo Domingo River, 200 m. road to Quebrada Negra locality (4°26' 47"N, 75°41' 02"W) 1,278 to 1,304 m a.s.l. Holotype: IUQ 2008.

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2009).

Remarks: Probable synonymy with *Hemibrycon boquiae* (Eigenmann, 1913) discussed by García-Melo *et al.*, 2018:3.

Hemibrycon cairoense Román-Valencia, Arcila-Mesa, 2009

Hemibrycon cairoense Román-Valencia, Arcila-Mesa, 2009:84, figs. 5–6. Type locality: Colombia, Risaralda, Quinchia, El Cairo locality, System Upper Cauca

River, Ramirez Creek, afl. Itálica Creek, Quinchia road to El Cairo 200 m. as next to the bridge (5° 21' 43" N, 75° 43' 43" W) 1,842 m a.s.l. Holotype: IUQ 2009. Distribution: 302 (Román-Valencia, Arcila-Mesa, 2009).

Hemibrycon cardalensis Román-Valencia, Ruiz-C., Taphorn C., Mancera-Rodríguez, García-Alzate, 2013

Hemibrycon cardalensis Román-Valencia, Ruiz-C., Taphorn C., Mancera-Rodríguez, García-Alzate, 2013:1373, 3b, 4. Type locality: Colombia, Antioquia, border between Municipios San Rafael and San Carlos, above Playas Reservoir, El Cardal Creek, tributary of Guadapé River, middle sector of the Magdalena River Drainage, 6° 16' 56.4" N, 74° 55' 37.7" W, 898 m. a.s.l. Holotype: IUQ 3190.

Distribution: 302 (Román-Valencia, Ruiz-C., Taphorn C., Mancera-Rodríguez, García-Alzate, 2013).

Hemibrycon carrilloi Dahl, 1960

Hemibrycon carrilloi Dahl, 1960b:467, figure. Type locality: Quebrada La Noche, tributary of the upper Atrato. [Colombia]. Holotype: whereabouts unknown. [(Cala, 1981; Cala, 1987; Bertaco, 2008; Mojica, Agudelo-Zamora, 2018:15)].

Distribution: 301 (Dahl, 1960b).

Hemibrycon caucanus (Eigenmann, 1913)

Bryconamericus caucanus Eigenmann, 1913:17. Type locality: Piedra Moler. [Rio Viejo, east of Cartago, trib. Río Cauca, Departamento Quindío, Colombia]. Holotype: FMNH 56229.

Bryconamericus caldasi Román-Valencia, Ruiz-C., Taphorn, García-Alzate, 2014b:111, figs. 1–2. Type locality: Colombia, Caldas, San José County, Middle Cauca River Basin, La Libertad Creek, two hundred meters from La Libertad School, on the San José–Arauca road, 05° 63' 07.4" N, 75° 45' 53.6" W. Holotype: IUQ 3714. Synonymy proposed by García-Melo *et al.*, 2019:10.

Distribution: 302 (Maldonado-Ocampo *et al.*, 2006).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Hemibrycon clausen Ardila Rodríguez, 2020

Hemibrycon clausen Ardila Rodríguez, 2020a:5, figs. 1–2, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A. Type locality: Colombia, Río Riofrio. Sector “La Clausen”, 1.000 msnm, afluente del río de Oro, cuenca alta del río Lebrija, sisema del río Magdalena, Municipio de Floridablanca, Departamento de Santander. Holotype: CAR 825.

Distribution: 302 (Ardila Rodríguez, 2020a).

Hemibrycon colombianus Eigenmann, 1914

Hemibrycon colombianus Eigenmann, in Eigenmann, Henn, Wilson, 1914:8. Type locality: Rio San Gil. Santander. Colombia. Holotype: FMNH 56653.

Distribution: 302 (Eigenmann, Henn, Wilson, 1914).

Hemibrycon cristiani (Román-Valencia, 1999)

Bryconamericus cristiani Román-Valencia, 1999:110, fig. 1. Type locality: Colombia, Departamento del Meta, en la vía Villavicencio-Acacías, vereda Brisas de Guayuriba, cerca de la escuela cruzando el puente sobre el río Guayuriba, del río Guayuriba, Alto Meta (4° 07' N, 74° 15' W) caño Cayupe, afluente. Holotype: ICNMNH 3445.

Distribution: 306 (Román-Valencia, 1999).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Hemibrycon dariensis Meek, Hildebrand, 1916

Hemibrycon dariensis Meek, Hildebrand, 1916:285, Pl. 20. Type locality: Mouth of Rio Yape, Rio Tuyra Basin, Panama. Holotype: FMNH 8947.

Distribution: 210, 301 (Bertaco, Malabarba, 2010).

Hemibrycon decurrens (Eigenmann, 1913)

Bryconamericus decurrens Eigenmann, 1913:20. Type locality: Soplaviento. [Colombia]. Holotype: FMNH 56255.

Distribution: 302 (Eigenmann, 1913).

Hemibrycon dentatus (Eigenmann, 1913)

Bryconamericus dentatus Eigenmann, 1913:19. Type locality: Piedra Moler. [Colombia]. Holotype: FMNH 56253.

Distribution: 302 (Eigenmann, 1913).

Hemibrycon divisorensis Bertaco, Malabarba, Hidalgo, Ortega, 2007

Hemibrycon divisorensis Bertaco, Malabarba, Hidalgo, Ortega, 2007:252, figs. 1–3.

Type locality: Peru, Loreto, Requena, Zona Reservada Sierra del Divisor, upper río Tapiche, quebrada en la trocha 1, río Ucayali drainage, 07°12'02"S, 73°53'00"W. Holotype: MUSM 28860.

Distribution: 317 (Bertaco, Malabarba, 2010).

Hemibrycon fasciatus Román-Valencia, Ruiz-C., Taphorn, Mancera-Rodriguez, García-Alzate, 2013

Hemibrycon fasciatus Román-Valencia, Ruiz-C., Taphorn, Mancera-Rodriguez, García-Alzate, 2013:1370, figs. 1–2, 3a. Type locality: Colombia, Antioquia, Municipio de San Vicente, Vereda Corrientes, middle sector of the Magdalena River Basin, La Magdalena Creek, tributary of the Nare River, 6°18'42.4" N, 75°15'28.7"W, 1882 m.a.s.l. Holotype: IUQ 3191.

Distribution: 302 (Román-Valencia, Ruiz-C., Taphorn, Mancera-Rodriguez, García-Alzate, 2013).

Hemibrycon fonceensis (Román-Valencia, Vanegas-Ríos, Ruiz-C., 2009)

Bryconamericus fonceensis Román-Valencia, Vanegas-Ríos, Ruiz-C., 2009:458, fig. 1. Type locality: Colombia, departamento de Santander, municipio de Charalá, Vereda Los Chinitos, sistema río Magdalena medio, cuenca del río Fonce, río Pienta vía a Encino 10 km de Charalá (6°13'00"N, 73°10'13"W) 1658 m snm. Holotype: IUQ 1941.

Distribution: 302 (Román-Valencia *et al.*, 2009).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015). Included in *Hemibrycon* by García-Melo *et al.* (2018:2).

Hemibrycon galvisi (Román-Valencia, 2000)

Bryconamericus galvisi Román-Valencia, 2000:457, fig. 5. Type locality: Colombia, Departamento del Putumayo, municipio de Sibundoy, cuenca del Alto Río Putumayo, Valle Sibundoy (aprox. 5°00'N, 77°23'W). [Coordinates provided in the original description do not match locality description]. Holotype: ICN-MNH 2720. [(Mojica, Agudelo-Zamora, 2018:11)].

Distribution: 312, 313 (Román-Valencia, 2000).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Hemibrycon guejarensis Román-Valencia, Ruiz-C., Taphorn, 2018

- Hemibrycon guejarensis* Román-Valencia, Ruiz-C., Taphorn, 2018:41, figs. 2C, 3.
Type locality: Colombia, Meta: Vista Hermosa County, Buenavista village, Orinoco River basin, Guaviare River drainage, Blanco River system, Pringamosal Creek, 3°05'34"N, 75°61'53"W, 384 masl. [Geographical coordinates of type locality provided by Román-Valencia *et al.*, 2018:41 are incorrect (Fricke *et al.*, 2022 and corrected herein to ca. 3°07'01"N, 73°52'19"W)]. Holotype: IUQ 2484.
Distribution: 306 (Román-Valencia, Ruiz-C., Taphorn, 2018).
- Hemibrycon gutierrezorum*** Ardila Rodríguez, 2020
Hemibrycon gutierrezorum Ardila Rodríguez, 2020a:9, figs. 1, 3, 5B, 6B, 7B, 8B, 9B, 10B, 11B, 12B, 13. Type locality: Colombia, Quebrada La Ruitoca, 925 msnm, afluente del río de Oro, cuenca alta del río Lebrija, Sistema del río Magdalena, Municipio de Floridablanca, Departamento de Santander. Holotype: CAR 820.
Distribution: 302 (?) (Ardila Rodríguez, 2020a).
Remarks: Originally as *H. gutierrezzi*, corrected to *H. gutierrezorum* (Fricke *et al.*, 2022,).
- Hemibrycon helleri*** Eigenmann, 1927
Hemibrycon helleri Eigenmann, 1927:406, Pl. 96 (fig. 2). Type locality: Rio Comerciato. [Peru]. Holotype: MCZ 31565. [See Bertaco, Malabarba (2010:743) for information about type series].
Distribution: 317 (Bertaco, Malabarba, 2010).
- Hemibrycon huambonicus*** (Steindachner, 1882)
Tetragonopterus huambonicus Steindachner, 1882c:177. Type locality: Huambo. [Peru; see Bertaco, Malabarba (2010:746) for discussion about type locality]. Syntypes: (several) NMW 57531 (1).
Distribution: 312, 317 (Bertaco, Malabarba, 2010).
- Hemibrycon inambari*** Bertaco, Malabarba, 2010
Hemibrycon inambari Bertaco, Malabarba, 2010:747, figs. 10–11. Type locality: Río Araza, río Inambari basin, upper río Madre de Dios drainage, Sirihua, Camanti, Quispicanchi, Cusco, Peru, 13°24'05"S, 70°53'57"W. Holotype: MUSM 35491.
Distribution: 318 (Bertaco, Malabarba, 2010).
- Hemibrycon iqueima*** García-Melo, Albornoz-Garzón, García-Melo, Villa-Navarro, Maldonado-Ocampo, 2018
Hemibrycon iqueima García-Melo, Albornoz-Garzón, García-Melo, Villa-Navarro, Maldonado-Ocampo, 2018:1931, figs. 1–4, 7–18a, 19b. Type locality: Colombia: Tolima Department: Suarez municipality: Magdalena River basin, Quebrada Bacallá 3°59'12.4"N, 74°50'43.6"W, 314 masl. Holotype: CZUT-IC 16418.
Distribution: 302 (García-Melo, Albornoz-Garzón, García-Melo, Villa-Navarro, Maldonado-Ocampo, 2018).
- Hemibrycon jabonero*** Schultz, 1944
Hemibrycon dentatus jabonero Schultz, 1944:363, fig. 55. Type locality: Río Chama at Estanques, Estado de Mérida, Venezuela. Holotype: USNM 121455.
Distribution: 303 (Bertaco, Malabarba, 2010).
- Hemibrycon jelskii*** (Steindachner, 1876)
Tetragonopterus jelskii Steindachner, 1876b:590 [40]. Type locality: Monterico in Peru. Syntypes: (several) NMW 57546 (3), 57548–51 (2, 1, 2, 4), 57553–55 (3, 5, 2).

Distribution: 317, 318, 319 (Bertaco, Malabarba, 2010).

Hemibrycon loisae (Géry, 1964)

Bryconamericus loisae Géry, 1964c:46, fig. 12. Type locality: about 200 miles east of Bogota, Colombia, in the upper Rio Meta drainage. Holotype: USNM 198645.

Distribution: 307 (Géry, 1964c).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Hemibrycon metae Myers, 1930

Hemibrycon metae Myers, 1930:68. Type locality: Guaicaramo, Rio Guavio, Colombia. Holotype: CAS 123727.

Distribution: 304, 306, 307 (Bertaco, Malabarba, 2010).

Hemibrycon microformaa Román-Valencia, Ruiz-C., 2007

Hemibrycon microformaa Román-Valencia, Ruiz-C., 2007:122, figs. 1–4. Type locality: Colombia, Chocó, Certegui, Cuenca alta del río Atrato, río Chintadó, 100 m abajo del puente en la vía Yuto-Certegui. Holotype: IUQ 510.

Distribution: 301 (Román-Valencia, Ruiz-C., 2007).

Hemibrycon mikrostiktos Bertaco, Malabarba, 2010

Hemibrycon mikrostiktos Bertaco, Malabarba, 2010:754, figs. 16–17. Type locality: Río Aguaytía, río Negro, upper río Ucayali basin, Aguaytía, Padre Abad, Ucayali, Peru, 09°02'34"S, 75°30'45"W. [Peru]. Holotype: MUSM 35490.

Distribution: 317 (Bertaco, Malabarba, 2010).

Hemibrycon multiradiatus (Dahl, 1960)

Bryconamericus multiradiatus Dahl, 1960b:471, figure. Type locality: small brook in front of village Riosucio, lower Atrato. [Colombia]. Holotype: ICN-MHN 82.

Distribution: 301 (Dahl, 1960b).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015). Included in *Hemibrycon* by García-Melo *et al.* (2018:2) and García-Melo *et al.*, 2019:10. See Maldonado-Ocampo *et al.* (2012:102–103) for information on the species.

Hemibrycon paez Román-Valencia, Arcila-Mesa, 2010

Hemibrycon paez Román-Valencia, Arcila-Mesa, 2010:343, figs. 1A, 3, 4. Type locality: Colombia, Cauca, Inzá, Puerto Valencia, Upper Magdalena, La Topa creek, Río Paez, 100m ca. bridge at La Plata-Inzá road (2°30'01"N; 75°58'06"W) 1175 m.a.s.l. Holotype: IUQ 502.

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2010).

Hemibrycon palomae Román-Valencia, Garcia-Alzate, Ruiz-C., Taphorn, 2010

Hemibrycon palomae Román-Valencia, Garcia-Alzate, Ruiz-C., Taphorn, 2010a:100, fig. 1. Type locality: Colombia, Quindío, Quimbaya, Mountain El Ocaso natural reserve, Cauca-Magdalena River Basin, Roble River drainage, La Paloma Creek, 4°35'08"N, 75°51'06"W, 1103 m.a.s.l. Holotype: IUQ 2727.

Distribution: 302 (Román-Valencia *et al.*, 2010a).

Hemibrycon plutarcoi (Román-Valencia, 2001)

Bryconamericus plutarcoi Román-Valencia, 2001:470, fig. 1. Type locality: Colombia, Departamento de Santander, Quebrada Santa Rosa, cuenca del río Suárez, sistema río Magdalena (6°26'09"N, 73°18'56"W) 825m. Holotype: ICN-MHN 4886.

Distribution: 302 (Román-Valencia, 2001).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Hemibrycon polyodon (Günther, 1864)

Tetragonopterus polyodon Günther, 1864:330. Type locality: Guayaquil. [Ecuador].
Holotype: BMNH 1858.7.25.41.

Hemibrycon coxeyi Fowler, 1943a:1, fig. 1. Type locality: Hacienda Las Mascota, mouth of the Rio Pastaza, basin of the Rio Marañon, Ecuador. [See Bertaco, Malabarba (2010:759) for discussion about the type locality]. Holotype: ANSP 70155. [The holotype is in poor condition, lacking several body scales, with dorsal fin and snout broken, and body completely discolored (Bertaco, Malabarba, 2010)]. Considered junior synonym of *H. polyodon* (Günther, 1864) by Bertaco, Malabarba (2010); but a valid species by Román-Valencia *et al.* (2014a).

Hemibrycon pautensis Román-Valencia, Ruiz C., Barriga, 2006:212, fig. 1. Type locality: Ecuador, provincia de Morona-Santiago, cuenca del Amazonas, río Paute en la desembocadura del río Namangoza (aprox. 78°25' N, 2°32' S). Holotype: MEPN 001549. Considered a junior synonym of *H. polyodon* (Günther, 1864) by Bertaco, Malabarba (2010); but a valid species by García-Alzate *et al.* (2015).
Distribution: 313 (Bertaco, Malabarba, 2010).

Hemibrycon quindos Román-Valencia, Arcila-Mesa, 2010

Hemibrycon quindos Román-Valencia, Arcila-Mesa, 2010:346, figs. 1B, 3. Type locality: Colombia, Quindío, Salento, Upper Cauca, Río Quindío Basin, Tinaja creek 200m at Llano Grande-Boquia road (4°36'57" N; 75°36'36" W) 1712 m.a.s.l. Holotype: IUQ 485.

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2010).

Remarks: Probable synonymy with *Hemibrycon boquiae* (Eigenmann, 1913) discussed by García-Melo *et al.*, 2018:3.

Hemibrycon rafaelse Román-Valencia, Arcila-Mesa, 2008

Hemibrycon rafaelse Román-Valencia, Arcila-Mesa, 2008:70, figs. 1–3. Type locality: Colombia, Risaralda, Apia, San Rafael Creek, Apia River system, on the Santuario – Apia road. Holotype: ICN-MHN 6703. [Mojica, Agudelo-Zamora, 2018:17].

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2008).

Hemibrycon raqueliae Román-Valencia, Arcila-Mesa, 2010

Hemibrycon raqueliae Román-Valencia, Arcila-Mesa, 2010:348, figs. 2A, 3, 5. Type locality: Colombia, Caldas, Samaná, Middle Magdalena, Río La Miel Basin, Tasajo creek (5°23'55"N; 74°59'05"W) 1482 m.a.s.l. Holotype: IUQ 495.

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2010).

Hemibrycon sanjuanensis Román-Valencia, Ruiz-C., Taphorn, García-Alzate, 2014

Hemibrycon sanjuanensis Román-Valencia, Ruiz-C., Taphorn, García-Alzate, 2014a:111, fig. 1. Type locality: Colombia, Risaralda, Pueblo Rico, El Recreo, upper San Juan River, Aguas Claras River, Tatamá River tributary on Apia-Pueblo Rico road, 5°13'04.9"N, 76°01'50.1"W; 1519 m.a.s.l. (meters above sea level). Holotype: IUQ 3693.

Distribution: 301 (Román-Valencia *et al.*, 2014a).

Hemibrycon santamartae Román-Valencia, Ruiz-C., García-Alzate, Taphorn, 2010

Hemibrycon santamartae Román-Valencia, Ruiz-C., García-Alzate, Taphorn, 2010:145, fig. 1. Type locality: Colombia, Magdalena Basin, Departamento Cesar, Municipio Atanquez, Sierra Nevada de Santa Marta, Ranchería River

drainage, Santa Clara–Candela River, Bongá–Bunkuangueka, approx. 11°00'N, 72°46'W. Holotype: IUQ 2306.

Distribution: 302 (Román–Valencia, Ruiz–C., García–Alzate, Taphorn, 2010).

Hemibrycon sierraensis García–Alzate, Román–Valencia, Taphorn, 2015

Hemibrycon sierraensis García–Alzate, Román–Valencia, Taphorn, 2015:91, figs. 1–2.

Type locality: Colombia, Magdalena, Caribbean slope, Río Gaira beneath the bridge at Minca, 11°08'37.8"N, 74°07'08.1"W, 120 m.a.s.l. Holotype: UARC–IC 134.

Distribution: 302 (García–Alzate *et al.*, 2015).

Hemibrycon surinamensis Géry, 1962

Hemibrycon surinamensis Géry, 1962a:71, fig. 2. Type locality: Browns creek, kilometer 114 of the railroad Paramaribo–Dam, Paramacca River basin, Suriname. Holotype: ZMA 104188.

Distribution: 311, 316, 322, 324 (Bertaco, Malabarba, 2010).

Hemibrycon taeniurus (Gill, 1858)

Poecilurichthys taeniurus Gill, 1858:418 [58]. Type locality: Island of Trinidad, W. I. Syntypes: ZMUC 962–963(2), ZMUC 966–968(3). [See Bertaco, Malabarba (2010:764–765) for information about the type series].

Tetragonopterus (Hemibrycon) trinitatis Lütken, 1875a:234 [45]. Type locality: Island of Trinidad, W. I. Syntypes: ZMUC 962–963 (2), 966–968 (3). Synonymy discussed by Bertaco, Malabarba (2010).

Tetragonopterus guppyi Regan, 1906:384, Pl. 21 (fig. 1). Type locality: Trinidad. Syntypes: BMNH 1906.6.23.13–17 (5). Considered junior synonym of *H. taeniurus* (Gill, 1858) by Bertaco, Malabarba (2010); but a valid species by García–Alzate *et al.* (2015).

Distribution: 304 (Bertaco, Malabarba, 2010).

Hemibrycon tolimae (Eigenmann, 1913)

Bryconamericus tolimae Eigenmann, 1913:18. Type locality: Ibagué. [Colombia]. Holotype: FMNH 56257.

Bryconamericus huilae Román–Valencia, 2003b:42, fig. 10. Type locality: Colombia, (...) Departamento del Huila, Municipio de Guadalupe, vereda Cachimba, Alto Magdalena, sistema río Suaza, afluyente quebrada La Viciosa, quebrada La Sapayera alrededor del puente Km2 vía Guadalupe–Flores (1°59'27"N, 75°45'08"W, 952 m s.n.m.). Holotype: IUQ 422. Probable synonymy with *Hemibrycon tolimae* (Eigenmann, 1913) discussed by García–Melo *et al.*, 2018:3; synonymy corroborated by García–Melo *et al.*, 2019:10.

Distribution: 302 (Eigenmann, 1913).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015). Included in *Hemibrycon* by García–Melo *et al.* (2018:2) and García–Melo *et al.*, 2019:10. See Maldonado–Ocampo *et al.* (2006:61–62) for information on the species.

Hemibrycon tridens Eigenmann, 1922

Hemibrycon tridens Eigenmann, 1922:152. Type locality: Extralimital, Rio Apurimac at Uruhuasi. [Peru]. Holotype: CAS 44358.

Distribution: 317 (Bertaco, Malabarba, 2010).

Hemibrycon velox Dahl, 1964

Hemibrycon velox Dahl, in Dahl, Medem, 1964:68, fig. Type locality: Quebrada Caña Fina, Río Verde del Sinú. [Colombia]. Holotype: whereabouts unknown. [The type specimens of species described by Dahl (1964) were not located or they were apparently destroyed (Cala, 1981; Cala, 1987; Bertaco, 2008)].

Distribution: 302 (Dahl, Medem, 1964).

Hemibrycon virolinica Román-Valencia, Arcila-Mesa, 2010

Hemibrycon virolinica Román-Valencia, Arcila-Mesa, 2010:350, figs. 2B, 3, 6. Type locality: Colombia, Santander, Charalá locality, Virolín creek, Río Cañaverales Basin. Holotype: ICNMMNH 6704.

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2010).

Hemibrycon yacopiae Román-Valencia, Arcila-Mesa, 2010

Hemibrycon yacopiae Román-Valencia, Arcila-Mesa, 2010:351, figs. 2C, 3, 7. Type locality: Colombia, Cundinamarca, Yacopi, Hatico-Moral, Río Hatico, Río Aldana system, Middle Magdalena Basin. Holotype: ICN-MHN 6705. [Mojica, Agudelo-Zamora, 2018:19].

Distribution: 302 (Román-Valencia, Arcila-Mesa, 2010).

HEMIGRAMMUS Gill, 1858

FCT Lima, MMF Marinho

Hemigrammus Gill, 1858:416, 420. Type species: *Poecilurichthys (Hemigrammus) unilineatus* Gill, 1858. Type by monotypy in subgenus. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Poecilurichthys*.

Holopristis Eigenmann, 1903:145. Type species: *Tetragonopterus ocellifer* Steindachner, 1882. Type by original designation. Gender: Feminine.

Ramirezella Fernández-Yépez, 1949b:1. Type species: *Ramirezella newboldi* Fernández-Yépez, 1949. Type by original designation. Gender: Feminine.

Hemigrammus aguaruna Lima, Correa, Ota, 2016

Hemigrammus aguaruna Lima, Correa, Ota, 2016:125, figs. 1–4. Type locality: Peru, Departamento Loreto, Morona, Quebrada Uchpayacu (tributary of Río Morona), 3°02'38.9"S, 77°22'44.0"W. Holotype: MUSM 54691.

Distribution: 316 (Lima *et al.*, 2016).

Remarks: Cited as *Hemigrammus ocellifer* by Galvis *et al.* (2006:206–207).

Hemigrammus amacayacu Albornoz-Garzón, Méndez-López, DoNascimento, Lima, 2019

Hemigrammus amacayacu Albornoz-Garzón, Méndez-López, DoNascimento, Lima, 2019:933, figs. 1–3. Type locality: Colombia, Amazonas, Leticia, Parque Nacional Natural Amacayacu, unnamed tributary of quebrada Matamatá, 03°47'53.3" S, 70°15'58"W. Holotype: IAvH-P 21889.

Distribution: 316 (Albornoz-Garzón *et al.*, 2019).

Hemigrammus analis Durbin, 1909

Hemigrammus analis Durbin, 1909:64. Type locality: Rockstone. [Guyana, Potaro-Siparuni, Essequibo River (6°1'N, 58°34'W)]. Holotype: FMNH 53041.

Distribution: 307, 308, 310, 314, 316, 321 (Eigenmann, 1912a; Goulding *et al.*, 1988; Taphorn, 1992; Lima *et al.*, 2013; Ohara *et al.*, 2017).

Remarks: Comments on the species in Taphorn (1992:200–201), Lima *et al.*

(2013:254–255), and Ohara *et al.*, 2017:194.

Hemigrammus arua Lima, Wosiacki, Ramos, 2009

Hemigrammus arua Lima, Wosiacki, Ramos, 2009:154, figs. 1–4. Type locality: Brazil, Pará State, município de Juruti, lago São Francisco do Alto Aruã, rio Aruã, tributary of rio Arapiuns, tributary of rio Tapajós, 02° 36'4"S, 55° 54'21"W. Holotype: MPEG 14755.

Distribution: 316 (Lima *et al.*, 2009).

Hemigrammus ataktos Marinho, Dagosta, Birindelli, 2014

Hemigrammus ataktos Marinho, Dagosta, Birindelli, 2014:258, figs. 1–2. Type locality: Brazil, Tocantins State, Natividade, córrego Cocal on road TO-280, rio Manoel Alves drainage, rio Tocantins basin, 11° 42'50.2"S, 47° 35'40.2"W. Holotype: MZUSP 113725.

Distribution: 324 (Marinho *et al.*, 2014).

Remarks: Appeared as *Hyphessobrycon* on page 258 in Marinho *et al.* (2014), corrected in Dagosta *et al.* (2016:257).

Hemigrammus barrigona Eigenmann, Henn, 1914

Hemigrammus barrigona Eigenmann, Henn, 1914:232. Type locality: Barrigona, Rio Meta. [Barrigona = Puerto Barrigón, located near present Puerto Porfia, at Río Humea, a tributary of Río Meta (ca. 4° 10'N, 73° 1'W) (Colombia, depto. Meta)]. Holotype: CAS 44368.

Distribution: 307, 314 (Taphorn, 1992; Cabalzar *et al.*, 2005).

Remarks: See comments on the species by Taphorn (1992:203–205) and Lima *et al.* (2005:188), and a discussion of its relationships by Ota *et al.* (2014).

Hemigrammus bellottii (Steindachner, 1882)

Tetragonopterus bellottii Steindachner, 1882c:179. Type locality: Tabatinga. [Brazil, Amazonas, near Tabatinga (rio Solimões), c. 4° 14'S, 69° 57'W]. Syntypes: (several) NMW 57253–55 (13, 9, 9).

Distribution: 307, 308, 310, 311, 314, 315, 316, 321, 323 (Lima *et al.*, 2013; Taphorn, 1992; Lima *et al.*, 2005; Ferreira *et al.*, 2007; Planquette *et al.*, 1996).

Remarks: Described in more detail in Steindachner (1882:34–35). See comments on the species in Géry (1963e), Planquette *et al.* (1996:274–275), and Lima *et al.* (2013:256–257).

Hemigrammus boesemani Géry, 1959

Hemigrammus micropterus boesemani Géry, 1959a:251, fig. 2. Type locality: crique vers Sinnamary, Guyana fse. [French Guiana, near the city of Sinnamary (the latter at 5° 22'N, 52° 57'W)]. Holotype: MHNG 2181.80.

Distribution: 311 (Planquette *et al.*, 1996; Mol, 2012).

Remarks: Comments on the species in Planquette *et al.* (1996:275 bis–275 ter), Mol (2012:244), and Lima *et al.* (2022:263).

Hemigrammus brevis Ellis, 1911

Hemigrammus brevis Ellis, 1911:161, Pl. 3 (fig. 4). Type locality: Barreiras. Lagôas of Rio Grande. [Brazil, Bahia, c. 12° 8'S, 45° 0'W]. Holotype: FMNH 54444.

Distribution: 327, 328 (Camelier, Zanata, 2014a).

Hemigrammus changae Ota, Lima, Hidalgo, 2019

Hemigrammus changae Ota, Lima, Hidalgo, 2019:336, figs. 1, 2. Type locality: Peru, Departamento Madre de Dios, Puerto Maldonado, Aguajal Cicra, Aguajal Pozo

Minero, 12°33'48"S, 70°07'03"W. Holotype: MUSM 663836.

Distribution: 318 (Ota *et al.*, 2019).

Hemigrammus coeruleus Durbin, 1908

Hemigrammus coeruleus Durbin, in Eigenmann, 1908:99. Type locality: Manacapuru. [Brazil, Amazonas, Lago Manacapuru (ca. 3°13'S, 60°44'W)]. Syntypes: (103) MCZ 20801 (97).

Distribution: 307, 314, 315, 316, 321 (Lima *et al.*, 2013; Ferreira *et al.*, 2007; Lima *et al.*, 2005).

Remarks: Comments on the species in Lima *et al.* (2013:256–257).

Hemigrammus cupreus Durbin, 1918

Hemigrammus cupreus Durbin, in Eigenmann, 1918b:168, Pl. 20 (fig. 3). Type locality: Jatuarana (...) Silva, Lake Saraca. [“Jatuarana” is an uncertain locality, but “(p)robably an igarape, or lagoa SW of Parintins, near Barreirinha” (Brazil, Amazonas, rio Amazonas) (Higuchi, 1996); “Silva, Lake Saraca” = Silves, Lago Saracá (ca. 2°50'S, 58°14'W), Amazonas, Brazil]. Syntypes: CAS 42675 (2); ?MCZ 21067 (6), ?21069 (9?, orig. 6), 89964 (orig. 11).

Distribution: 316 (Eigenmann, 1918b).

Hemigrammus cylindricus Durbin, 1909

Hemigrammus cylindricus Durbin, 1909:62. Type locality: Tumatumari. [Guyana, Potaro-Siparuni, Potaro River (ca. 5°21'N, 59°0'W)]. Holotype: FMNH 53426.

Distribution: 310 (Durbin, 1909).

Hemigrammus diagonicus Mendonça, Wosiacki, 2011

Hemigrammus diagonicus Mendonça, Wosiacki, 2011:211, figs. 1–2. Type locality: Brazil, State of Pará, Lago do Piranha, Juruti, Lower Amazon, 2°12'40.2"S, 56°6'59.1"W. Holotype: MPEG 10321.

Distribution: 316 (Mendonça, Wosiacki, 2011).

Hemigrammus durbinae Ota, Lima, Pavanelli, 2015

Hemigrammus durbinae Ota, Lima, Pavanelli, 2015:220, figs. 1–3. Type locality: Brazil, Amazonas, Careiro, lago Castanho, lago Janauacá complex, rio Solimões basin, ca. 3°48'S, 60°23'W. Holotype: MZUSP 115984.

Distribution: 316, 321, 343 (Ota *et al.*, 2015).

Remarks: Cited as *Hemigrammus sp.* “*falso marginatus*” by Lima *et al.* (2013:270–271).

Hemigrammus elegans (Steindachner, 1882)

Tetragonopterus elegans Steindachner, 1882c:179. Type locality: Obidos. [Óbidos, Pará, Brazil (ca. 1°55'S, 55°31'W)]. Syntypes: (several) ?MCZ 90014 (2); NMW 57390 (8).

Distribution: 316 (Steindachner, 1882c).

Remarks: A poorly known species, subsequent records (*e.g.*, Taphorn, 1992) are doubtful.

Hemigrammus erythrozonus Durbin, 1909

Hemigrammus erythrozonus Durbin, 1909:56. Type locality: Erukin. [Guyana, Potaro-Siparuni, Potaro River, a creek below Amatuk Falls (ca. 5°18'N, 59°19'W)]. Holotype: FMNH 53546.

Distribution: 310 (Durbin, 1909).

Remarks: A well-known aquarium fish apparently endemic to the Essequibo River.

Hemigrammus falsus Meinken, 1958

Hemigrammus ocellifer falsus Meinken, 1958:232. Type locality: Amazonasgebiet (genauer Fangort unbekannt). [Type locality (“Amazon region”) is uncertain; Zarske (2015a), based on Mol (2012), recorded the species only from Suriname]. Holotype: ZMH H1183.

Distribution: 311 (Zarske, 2015a; Mol, 2012, as *Hemigrammus* aff. *ocellifer*).

Remarks: Species name revalidated and raised to the specific level by Zarske (2015a) with additional comments by Lima *et al.* (2016).

Hemigrammus filamentosus Zarske, 2011

Hemigrammus filamentosus Zarske, 2011c:4, figs. 1–5. Type locality: über Belem aus dem rio-Araguaya-System. [Probably from the Tocantins-Araguaia Rivers basin]. Holotype: MTD F 32438.

Distribution: 324 (Zarske, 2011c).

Hemigrammus geisleri Zarske, Géry, 2007

Hemigrammus geisleri Zarske, Géry, 2007:6, figs. 1–4, 6. Type locality: Brasilien, Para, Igarapé 35 km nordwestlich Obidos. [Brazil, Pará, igarapé at 35 km northwest of Obidos]. Holotype: MTD F 30612.

Distribution: 314*, 316, 320*, 321, 322* (Zarske, Géry, 2007; Lima *et al.*, 2013; Ohara *et al.*, 2017; MMF. Marinho, pers. obs.).

Remarks: Probably a species complex that needs taxonomic revision (Lima *et al.*, 2003). Widespread throughout the Amazon basin.

Hemigrammus gracilis (Lütken, 1875)

Tetragonopterus gracilis Lütken, 1875c:133 [7]. Type locality: Lacu Lagoa Santa. [Brazil, Minas Gerais, rio São Francisco basin (ca. 19° 38'S, 45° 54'W)]. Syntypes: MNHN 0000-9583 (4); NMW 68066 (5); SMNS 2047 (4); ZMB 9201 (1); ZMUC 522–529 (8), 539 (1), 650 (1), 651 (1), 661 (1), 662 (1).

Distribution: 327 (Lütken, 1875c).

Remarks: Often considered as a widespread species (Géry, 1977) but herein tentatively considered as endemic from the rio São Francisco basin.

Hemigrammus guyanensis Géry, 1959

Hemigrammus guyanensis Géry, 1959a:254, fig. 3. Type locality: crique Sable (Hte Mana). [French Guiana, a tributary of Acarouany River (trib. Mana River), near Mana (the latter locality at 5° 40'N, 53° 46'W)]. Holotype: MHNG 2181.23.

Distribution: 311, 323 (Planquette *et al.*, 1996; Mol, 2012).

Remarks: Comments on the species in Planquette *et al.* (1996:276–277) and Mol (2012:244–246).

Hemigrammus haraldi Géry, 1961

Hemigrammus pulcher haraldi Géry, 1961e:44, fig. 2. Type locality: Upper Solimões, environs of Sao Paulo de Olivença (Brazil), in an inland-lake (...) between the Parana-Para and the Parana-Camatia. [São Paulo de Olivença lies at the margin of rio Solimões, ca. 3° 28'S, 68° 57'W (Brazil, Amazonas)]. Holotype: USNM 196672.

Distribution: 316 (Géry, 1961e; Lima *et al.*, 2013:258–259).

Remarks: Comments on the species in Lima *et al.* (2013:258–259).

Hemigrammus hyanuary Durbin, 1918

Hemigrammus hyanuary Durbin, in Eigenmann, 1918:151, Pl. 18 (fig. 4). Type locality: Lake Hyanuary. [Lago Januári, Iranduba, Amazonas, Brazil (ca. 3° 12'S,

60°3'W)]. Syntypes: (8) CAS 42676 (2), MCZ 20955 (now 4).

Distribution: 314, 316, 321 (Lima *et al.*, 2013; Ohara *et al.*, 2017:196).

Remarks: Comments on the species in Lima *et al.* (2013:260–261); Ohara *et al.* (2017: 196).

Hemigrammus iota Durbin, 1909

Hemigrammus iota Durbin, 1909:60. Type locality: Gluck Island. [Guyana, Potaro-Siparuni, Essequibo River near Rockstone (5°59'N, 58°34'W)]. Holotype: FMNH 53034.

Distribution: 310 (Durbin, 1909).

Hemigrammus kuroobi Reia, Benine, 2019

Hemigrammus kuroobi Reia, Benine, 2019:408, figs. 1–4. Type locality: Brazil, Amazonas State, São Gabriel da Cachoeira, tributary of the Rio Miuá, Rio Negro basin, 00°06'12"S, 66°53'8"W. Holotype: MZUSP 123957.

Distribution: 314 (Reia, Benine, 2019).

Hemigrammus levis Durbin, 1908

Hemigrammus levis Durbin, in Eigenmann, 1908:100. Type locality: Lago do Maximo, Obidos, Villa Bella, Lake Jose Assu. [“Lago do Maximo” is a small lake near Parintins, Amazonas, Brazil (approximate coordinates 2°40'S, 56°45'W) (Higuchi, 1996); Óbidos, Pará, Brazil (ca. 1°55'S, 55°31'W); “Villa Bella” is the current Parintins, Amazonas, Brazil (ca. 2°38'S, 56°45'W); “Lake Jose Assu” lies at rio Andirá, Amazonas, Brazil (2°54'S, 57°8'W)]. Syntypes: (over 300) CAS 42677 (5), CAS 42678 (7); MCZ 89961–62 (64, 18), 20738 (194), 20749 (28), 20829 (3); USNM 120266 (6).

Distribution: 307, 314, 315, 316, 320, 321, 322, 323, 324 (Araújo-Lima *et al.*, 1986; Ferreira *et al.*, 2007; Lima *et al.*, 2013; Ohara *et al.*, 2017).

Remarks: Comments on the species in Lima *et al.* (2013:262–263) and Ohara *et al.*, 2017.

Hemigrammus luelingi Géry, 1964

Hemigrammus luelingi Géry, 1964b:7, fig. 5. Type locality: petit ruisseau faisant communiquer le “Zapote Cocha” avec le “Caño Yarina”, en bordure du Rio Pacaya, affluent du canal de Puinahua (bras du bas Rio Ucayali). [Peru, Depto. Loreto]. Holotype: ZFMK 1304.

Distribution: 316 (Géry, 1964b).

Hemigrammus lunatus Durbin, 1918

Hemigrammus lunatus Durbin, in Eigenmann, 1918b:164. Type locality: Amazon basin. [Restricted by Ota *et al.* (2014:274) for “Brazil, Amazonas, Codajás, lago Badajós (ca. 3°21'S, 62°41'W)”. Lago Badajós is a large blocked valley lake tributary of the rio Solimões (ca. 3°21'S, 62°41'W) (Ota *et al.*, 2014:274)]. Holotype: MCZ 20964 (1 of 3). [Holotype and paratypes figured in Ota *et al.* (2014)].

Hyphessobrycon maxillaris Fowler, 1932:354, fig. p. 350. Type locality: Descalvados, Matto Grosso. [Descalvados is a ranch situated at the left bank of the rio Paraguai, in the central area of the Pantanal, Mato Grosso State (ca. 16°44'S 57°45'W) (Ota *et al.*, 2014:276)]. Holotype: ANSP 53660. [Holotype figured in Ota *et al.* (2014)]. Synonymy with *Hemigrammus lunatus* proposed by (Ota *et al.* (2014)).

Distribution: 313, 316, 318, 319, 321, 343 (Géry, 1965d; Ota *et al.*, 2014; Ota *et al.*,

2019).

Remarks: Redescription of species and restriction of its type locality in Ota *et al.* (2014); additional comments on the species in Lima *et al.* (2013:264–265) and Ota *et al.* (2019).

Hemigrammus machadoi Ota, Lima, Pavanelli, 2014

Hemigrammus machadoi Ota, Lima, Pavanelli, 2014:266, figs. 1–2. Type locality: Brazil, Mato Grosso State, Pontes e Lacerda, Igarapé Barreiro, tributary of rio Guaporé, rio Madeira basin, road to Vila Bela da Santíssima Trindade, 15° 11'34"S, 59° 25'26"W. Holotype: INPA 39889.

Distribution: 319, 343 (Ota *et al.*, 2014).

Remarks: Cited as *Hemigrammus sp.* “*falso lunatus*” by Lima *et al.* (2013:272–273).

Hemigrammus mahnerti Uj, Géry, 1989

Hemigrammus mahnerti Uj, Géry, 1989:154, figs. 5–7. Type locality: Paraguay, dépt. Misiones, marais près de Panchito López à 4 km de Yabebery. [Swamp on the flood plain of Paraná river basin (ca. 27° 26'S, 57° 09'W)]. Holotype: MHNG 2412.82.

Distribution: 319, 343, 345 (Ota, 2010).

Remarks: Comments on the species and records from Brazil in Ota (2010).

Hemigrammus marginatus Ellis, 1911

Hemigrammus marginatus Ellis, 1911:159, Pl. 3 (fig. 3). Type locality: Queimadas, Rio Itapicurú. [Brazil, Bahia, ca. 10° 58'S, 39° 38'W]. Holotype: FMNH 54430.

Distribution: 326, 327, 328 (Britski *et al.*, 1984; Camelier, Zanata, 2014a).

Remarks: See comments on the species in Ota *et al.* (2015), where it is restricted to the rio São Francisco and other river drainages from northeastern Brazil.

Hemigrammus megaceps Fowler, 1945

Hemigrammus megaceps Fowler, 1945b:1, fig. 3. Type locality: Ninabamba near Ayacucho, at 1900 meters elevation, Rio Ucayali basin, Peru. [Ninabamba (= San Lorenzo de Ninabamba), Depto. Junín, Peru (ca. 10° 58'S, 75° 29'W)]. Holotype: ANSP 71624.

Distribution: 317 (Fowler, 1945b).

Hemigrammus melanochrous Fowler, 1913

Hemigrammus melanochrous Fowler, 1913b:543, fig. 12. Type locality: Tributary of Madeira River near Porto Velho, Brazil. Holotype: ANSP 39228.

Distribution: 321 (Fowler, 1913b; Lima *et al.*, 2013; Ohara *et al.* 2017:197).

Remarks: Comments on the species in Lima *et al.* (2013:264–265) and Ohara *et al.*, 2017:197.

Hemigrammus micropterus Meek, 1907

Hemigrammus micropterus Meek, in Eigenmann, Ogle, 1907:15. Type locality: Los Castillos, Venezuela. [Venezuela, Estado Delta Amacuro, ca. 8° 31'N, 62° 24'W]. Holotype: CAS 44438.

Distribution: 307 (Taphorn, 1992).

Remarks: Comments on the species in Taphorn (1992:212–213).

Hemigrammus microstomus Durbin, 1918

Hemigrammus microstomus Durbin, in Eigenmann, 1918b:165. Type locality: Santarem. [Brazil, Pará, ca. 2° 25'S, 54° 43'W]. Holotype: MCZ 20782 (1 of 9).

Distribution: 307, 313, 314, 316, 319, 321, 323 (Taphorn, 1992; Lima *et al.*, 2013;

Galacatos *et al.*, 1996; Ohara *et al.*, 2017:198).

Remarks: Comments on the species in Taphorn (1992:215–216), Lima *et al.* (2013:272–273, as *Hemigrammus sp.* “*manchinha*”) and Ohara *et al.*, 2017:198.

Hemigrammus mimus Böhlke, 1955

Hemigrammus mimus Böhlke, 1955b:229, fig. 2. Type locality: From the rapids at Camanáos on the Rio Negro, Brazil (...). Camanáos is down river from São Gabriel, at approximately 0°10' South Latitude, 66°55' West Longitude. Holotype: SU 47759.

Distribution: 314 (Böhlke, 1955b).

Remarks: Taphorn (1992) tentatively identified populations from the Río Apure, upper Río Orinoco basin in Venezuela, as *Hemigrammus mimus*. Taxonomic comments in Taphorn (1992) and Zarske, Géry (2007).

Hemigrammus neptunus Zarske, Géry, 2002

Hemigrammus neptunus Zarske, Géry, 2002b:25, figs. 3–4. Type locality: Bolivien, Dep. Pando, Río Manuripi, unweit des Zusammenflusses mit dem Río Tahuamanu, mehrere Fundorte zwischen Alméndrillo (11°11'68.7"S, 67°34'26.9"W) und Bolima (11°16'89.0"S, 67°36'24.6"W). Holotype: MTD F 25536.

Distribution: 318, 319, 343 (Ota, 2010; Lima *et al.*, 2013).

Remarks: Comments on the species in Ota (2010) and in Lima *et al.* (2013:266–267).

Hemigrammus newboldi (Fernández-Yépez, 1949)

Ramirezella newboldi Fernández-Yépez, 1949b:[2], fig. Type locality: Venezuela, Bolivar, Río Orinoco, Puerto Cedeño, 7°39'06"N 66°10'34"W. Neotype: MZUSP 96431. [Designated by Mathubara, Toledo-Piza, 2020:34].

Distribution: 307 (Fernández-Yépez, 1949b; Taphorn, 1992).

Remarks: Comments on the species in Taphorn (1992:221), species redescribed in Mathubara, Toledo-Piza, 2020:34.

Hemigrammus ocellifer (Steindachner, 1882)

Tetragonopterus ocellifer Steindachner, 1882c:179. Type locality: Villa bella, Cudajas. [Villa Bella is the current Parintins, Amazonas, Brazil (ca. 2°38'S, 56°45'W); Cudajas is the current Codajás, Amazonas, Brazil (ca. 03°21'S 62°41'W)]. Syntypes: (several) ?MCZ 20969 (5); MSNM 4 (1); NMW 57689 (6); ZSM 5864 (1).

Distribution: 310, 311, 313, 314, 315, 316, 321, 323 (Planquette *et al.*, 1996; Mol, 2012; Lima *et al.*, 2013; Ferreira *et al.*, 2007).

Remarks: Comments on the species in Planquette *et al.* (1996:278–279) and Lima *et al.* (2013:266–267).

Hemigrammus ora Zarske, Le Bail, Géry, 2006

Hemigrammus ora Zarske, Le Bail, Géry, 2006:19, figs. 1–4. Type locality: French Guiana, Pripri Yiyi. [ca. 5°27'N, 53°3'W]. Holotype: MNHN 2006–0785.

Distribution: 311, 315, 316, 320, 324 (Zarske *et al.*, 2006; Jerep *et al.*, 2011; Ohara *et al.*, 2017:198).

Remarks: Comments on the species and its distribution in Jerep *et al.* (2011) and Ohara *et al.* (2017:198).

Hemigrammus orthus Durbin, 1909

Hemigrammus orthus Durbin, 1909:61. Type locality: Tukeit. [Guyana, Potaro-Siparuni, Potaro River (ca. 5°14'N, 59°25'W)]. Holotype: FMNH 53052.

Distribution: 310, 311 (Mol, 2012).

Hemigrammus parana Marinho, Carvalho, Langeani, Tatsumi, 2008

Hemigrammus parana Marinho, Carvalho, Langeani, Tatsumi, 2008:53, figs. 1–2.

Type locality: Rio Grande near the old sand port, known as Velho Adão, municipality of Santa Clara D'Oeste, São Paulo state, Brazil, 20°01'27.2"S, 50°54'46.6"W. Holotype: DZSJRP 6217.

Distribution: 344 (Marinho *et al.*, 2008).

Remarks: Populations of a very similar species to *Hemigrammus parana* occur in the upper portions of rio Tapajós, rio Xingu, and rio Araguaia basins (MMF. Marinho, FR. Carvalho, pers. obs.). However, a taxonomic study is necessary to evaluate their possible conspecificity with *H. parana*.

Hemigrammus pretoensis Géry, 1965

Hemigrammus pretoensis Géry, 1965a:19, Pl. 2 (fig. 7). Type locality: Igarapé Preto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil, Amazonas, near Tabatinga]. Holotype: SMF 7237.

Distribution: 316 (Géry, 1965d).

Hemigrammus pulcher Ladiges, 1938

Hemigrammus pulcher Ladiges, 1938:49. Type locality: dem Stromgebiet zwischen Tabatinga und Iquitos. Lectotype: ZMH H61. [Designated by Ladiges *et al.*, 1958:157].

Distribution: 316 (Géry, 1961e; Galvis *et al.*, 2006).

Remarks: Comments on the species in Géry (1961e) and Galvis *et al.* (2006:208–209).

Hemigrammus rodwayi Durbin, 1909

Hemigrammus rodwayi Durbin, 1909:58. Type locality: Georgetown trenches. [Guyana, Georgetown, especially trenches close to the Botanical Garden (ca. 6°48'N, 58°08'W) (Eigenmann, 1912a:32)]. Holotype: FMNH 53026.

Hemigrammus armstrongi Schultz, Axelrod, 1955:5, fig. (p. 4). Type locality: Near Georgetown. [Guyana]. Holotype: USNM 163868.

Distribution: 316, 311, 315, 323, 324, 325, 326, 320.

Hemigrammus rubrostriatus Zarske, 2015

Hemigrammus rubrostriatus Zarske, 2015a:4, figs. 1–5. Type locality: Grenzgebiet Kolumbien Venezuela. [Type series composed by specimens from the aquarium trade (firma Glaser), with uncertain locality]. Holotype: MTD F 33435.

Distribution: 307 (DoNascimento *et al.*, 2017:49).

Hemigrammus schmardae (Steindachner, 1882)

Tetragonopterus schmardae Steindachner, 1882c:179. Type locality: Tabatinga. [Brazil, Amazonas, near Tabatinga (rio Solimões), ca. 4°14'S, 69°57'W]. Syntypes: NMW 57809 (3), 57979 (22), 81255 (2).

Hemigrammus proneki Géry, 1963e:14, fig. 2. Type locality: near Tapurucuara, upper Rio Negro. [Brazil, Amazonas, ca. 0°21'S, 65°1'W]. Holotype: USNM 198648.

Distribution: 307, 308, 314, 316 (Géry, 1965d; Taphorn, 1992).

Remarks: Comments on the species in Taphorn (1992:227–228).

Hemigrammus silimoni Britski, Lima, 2008

Hemigrammus silimoni Britski, Lima, 2008:565, figs. 1–2. Type locality: Brazil, Mato Grosso, Rio Juruena, município de Sapezal, downstream PCH Telegráfica, 12°41'S, 58°56'W. [Exact coordinates of type locality: 12°41'15"S, 58°56'34"W].

- Holotype: MZUSP 93559.
 Distribution: 320 (Britski, Lima, 2008).
- Hemigrammus skolioplatus*** Bertaco, Carvalho, 2005
Hemigrammus skolioplatus Bertaco, Carvalho, 2005b:143, figs. 1–2. Type locality: Brazil, Mato Grosso, Comodoro, rio Doze de Outubro on road BR 364 between Comodoro and Vilhena, 12°58'39"S, 60°00'30"W. Holotype: MCP 38389.
 Distribution: 320 (Bertaco, Carvalho, 2005b).
 Remarks: Comments on the species in Ohara, Lima (2015).
- Hemigrammus stictus*** (Durbin, 1909)
Hyphessobrycon stictus Durbin, 1909:71. Type locality: Lama Stop-Off. [Guyana, Demerara-Mahaica, a tributary of Mahaica River, ca. 6°32'N, 51°1'W]. Holotype: FMNH 52798.
 Distribution: 307, 310, 311, 314, 315, 316, 321 (Eigenmann, 1912a; Taphorn, 1992; Ferreira *et al.*, 2007; Lima *et al.*, 2013).
 Remarks: Comments on the species in Taphorn (1992:233) and Lima *et al.* (2013:268–269).
- Hemigrammus taphorni*** Benine, Lopes, 2007
Hemigrammus taphorni Benine, Lopes, 2007:54, figs. 1–2. Type locality: Río Caura, Cano Mayor, around Salto Para, 6°31'67" N, 64°48'33"W. State of Bolivar, Venezuela. Holotype: MCNG 55841.
 Distribution: 308 (Benine, Lopes, 2007).
- Hemigrammus tocantinsi*** Carvalho, Bertaco, Jerep, 2010
Hemigrammus tocantinsi Carvalho, Bertaco, Jerep, 2010:248, figs. 1–2,3a, 4. Type locality: Brazil, Goiás, Cavalcante, rio das Pedras, Fazenda Córrego Fundo, 13°44'34"S, 47°26'33"W. Holotype: MCP 44444.
 Distribution: 324 (Carvalho *et al.*, 2010).
- Hemigrammus tridens*** Eigenmann, 1907
Hemigrammus tridens Eigenmann, in Eigenmann, Ogle, 1907:15. Type locality: Arroyo Pypucu, Paraguay Basin. [Arroyo Pypucu is a stream nearby Barrero Pyta (ca. 25°38'S, 56°44'W), Departamento Paraguari, Paraguay]. Holotype: CAS 58609.
 Distribution: 343 (Ota, 2010; Fernandes *et al.*, 2010).
 Remarks: Comments on the species in Ota (2010) and Azpelicueta, Koerber (2017).
- Hemigrammus ulreyi*** (Boulenger, 1895)
Tetragonopterus ulreyi Boulenger, 1895a:529. Type locality: Descalvados, Matto Grosso. [Descalvados is a ranch situated at the left bank of the rio Paraguai, in the central area of the Pantanal, Mato Grosso State (ca. 16°44'S, 57°45'W)]. Syntypes: BMNH 1895.5.17.194–199 (6).
 Distribution: 343, 345 (Ota, 2010; Fowler, 1940b).
 Remarks: Comments on the species in Ota (2010).
- Hemigrammus unilineatus*** (Gill, 1858)
Poecilurichthys unilineatus Gill, 1858:420 [60]. Type locality: island of Trinidad, W.I. No types known.
Hemigrammus unilineatus cayennensis Géry, 1959a:248, fig. 1. Type locality: crique d'eau douce de l'île de Cayenne. [French Guiana]. Holotype: MHNG 2179.61.
 Distribution: 304, 309, 310, 311, 316, 319, 321, 323, 326 (Planquette *et al.*, 1996;

Mol, 2012; Lima *et al.*, 2013).

Remarks: Comments on the species in Planquette *et al.* (1996:276–277), Mol (2012:244–246), Lima *et al.* (2013:268–269).

Hemigrammus vorderwinkleri Géry, 1963

Hemigrammus vorderwinkleri Géry, 1963e:11, fig. 1, plus 1 unnumbered. Type locality: near Tapurucuara, upper Rio Negro. [Brazil, Amazonas, ca. 0°21'S, 65°1'W]. Holotype: USNM 198643.

Distribution: 307, 314, 316, 319, 321 (Lima *et al.*, 2013).

Remarks: Comments on the species in Lima *et al.* (2013:270–271).

Hemigrammus xaveriellus Lima, Urbano-Bonilla, Prada-Pedrerros, 2020

Hemigrammus xaveriellus Lima, Urbano-Bonilla, Prada-Pedrerros, 2020:2, figs. 1–2. Type locality: Colombia: Guaviare, Calamar, Caño La Ocho, Río Itilla, tributary of the Río Vaupés basin, 2°00'18.4"N, 72°53'18.3"W. Holotype: MPUJ 14240.

Distribution: 314 (Lima *et al.*, 2020).

Hemigrammus yinyang Lima, Sousa, 2009

Hemigrammus yinyang Lima, Sousa, 2009:156, figs. 1–3. Type locality: Brazil, Amazonas, Igarapé Castanha, near Sítio São Pedro, 0°11'N, 69°35'W. Holotype: MZUSP 99300.

Distribution: 314 (Lima, Sousa, 2009).

Species inquirendae (Hemigrammus)

Hemigrammus aereus Géry, 1959a:257, figs. 4–5. Type locality: crique Nancibo, bassin de la Conté, un des formateurs du Mahury. [French Guiana, near Cayenne, ca. 4°49'N, 52°17'W]. Holotype: MHNG 2181.86.

Remarks: Planquette *et al.* (1996:295 bis) considered the types of *Hemigrammus aereus* to be juvenile specimens of either *Hemigrammus bellottii* or *Moenkhausia collettii*, presenting a silvery pigmentation due to infestation by trematodes.

Hemigrammus matei Eigenmann, 1918b:152, Plate 19 (fig. 1). Type locality: Argentina. [There are doubts about the type locality because the holotype was imported as aquarium fish (from P. Matte, a Berlin aquarist)]. Holotype: CAS 44436. Additional material or paratypes: CAS 44437 (1).

Remarks: Comments on the species in Géry, 1959a.

Hemigrammus riddlei Meek, in Eigenmann, Ogle, 1907:13 Type locality: Los Castillas, Orinoco. [Venezuela]. Holotype: missing. [in original description it is said to be at the FMNH, but neither catalogue entry nor fish were found (Ibarra, Stewart, 1987:45)].

Remarks: Possibly a species of *Microschemobrycon* (FCT. Lima, pers. obs.).

HETEROCHEIRODON Malabarba, 1998 **FC Jerep, LR Malabarba, J Chuctaya**

Heterocheiroduon Malabarba, 1998:213. Type species: *Odontostilbe yatai* Casciotta, Miquelarena, Protogino, 1992. Type by original designation. Gender: Masculine.

Heterocheiroduon jacuiensis Malabarba, Bertaco, 1999

Heterocheiroduon jacuiensis Malabarba, Bertaco, 1999:95, figs. 3–5, figs. 7–8, fig. 11,

fig. 17. Type locality: lagoon at left margin of rio Jacuí, near bridge of road BR 290, Cachoeira do Sul. [Brazil]. Holotype: MCP 23670.

Distribution: 334 (Malabarba, Bertaco, 1999).

Heterocheiroduon yatai (Casciotta, Miquelarena, Protogino, 1992)

Odontostilbe yatai Casciotta, Miquelarena, Protogino, 1992:3, fig. 1, fig. 2a, fig. 3, fig. 4a, fig. 5, fig. 6a, fig. 8a, fig. 9b. Type locality: Arroyo El Palmar, Paraje La Glorietta, Parque Nacional El Palmar, Entre Ríos, Argentina. Holotype: MLP 8726.

Distribution: 332, 333, 345 (Casciotta *et al.*, 1999; Miquelarena *et al.*, 2008).

HOLLANDICHTHYS Eigenmann, 1910

VA Bertaco

Hollandichthys Eigenmann, 1910:432. Type species: *Tetragonopterus multifasciatus* Eigenmann, Norris, 1900. Type by monotypy. Gender: Masculine.

Hollandichthys multifasciatus (Eigenmann, Norris, 1900)

Tetragonopterus multifasciatus Eigenmann, Norris, 1900:358. Type locality: Cubatão. [Brazil]. Syntypes: CAS 61483 (3).

Pseudochalceus perstriatus Miranda-Ribeiro, 1908:[4]. Type locality: Corregos de Iporanga. [Rio Ribeira de Iguape basin, São Paulo State, Brazil]. No types known.

Pseudochalceus affinis Steindachner, 1908g:29. Type locality: Rio Jaraguá bei Joinville im Staate S. Catharina (Brasilien). [Santa Catarina, Brazil]. Syntypes: (several) NMW 56736–37 (6, 3).

Distribution: 330, 331, 344, 352 (Bertaco, Malabarba, 2013).

Hollandichthys taramandahy Bertaco, Malabarba, 2013

Hollandichthys taramandahy Bertaco, Malabarba, 2013:768, figs. 1–6, 8–9. Type locality: Brazil, Rio Grande do Sul, Maquiné, Barra do Ouro locality, tributary of rio do Ouro, rio Tramandaí system, 29°35'18"S, 50°17'35"W. Holotype: MCP 30000.

Distribution: 331, 335 (Bertaco, Malabarba, 2013).

HYPHESSOBRYCON Durbin, 1908 FCT Lima, MMF Marinho, FR Carvalho

Hyphessobrycon Durbin, in Eigenmann, 1908:100. Type species: *Hemigrammus compressus* Meek, 1904. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Hemigrammus*.

Megalampodus Eigenmann, 1915:49. Type species: *Megalampodus megalopterus* Eigenmann, 1915. Type by original designation. Gender: Masculine.

Pseudopristella Géry, 1960f:18. Type species: *Pseudopristella simulata* Géry, 1960. Type by original designation. Gender: Feminine.

Hyphessobrycon acaciae García-Alzate, Román-Valencia, Prada-Pedrerros, 2010

Hyphessobrycon acaciae García-Alzate, Román-Valencia, Prada-Pedrerros, 2010:452, figs. 5–7. Type locality: Colombia, Meta, Morichal del estero, Puerto López, Meta, Aprox. 4°04'N, 72°57'W. Holotype: MPUJ 5683.

Distribution: 307.

Hyphessobrycon agulha Fowler, 1913

Hyphessobrycon agulha Fowler, 1913b:549, fig. 15. Type locality: Madeira River, about 200 miles east of W. Long. 62° 20', Brazil. [Type locality is very likely 20 miles (rather than 200 miles) east from 62° 20'W (see Böhlke, 1955a:8–12)]. Holotype: ANSP 39232.

Distribution: 316, 321, 314 (Géry, 1964h; Lima *et al.*, 2005; Lima *et al.*, 2013).

Hyphessobrycon albolineatum Fernández-Yépez, 1950

Hyphessobrycon albolineatum Fernández-Yépez, 1950b:17, Pl. 3 (fig. 3). Type locality: Raudal de Pereza al suroeste del Cerro Autana, en el Rio Autana, afluente del Rio Sipapo y a su vez este del Orinoco. [Approximately 4° 49'N, 67° 29'W (estimated via Google Earth)]. Holotype apparently lost.

Distribution: 308 (Fernández-Yépez, 1950b)

Remarks: Very likely a synonym of *Hemigrammus analis* (FCT Lima, pers. obs.).

Hyphessobrycon amandae Géry, Uj, 1987

Hyphessobrycon amandae Géry, Uj, 1987a:59, figs. 1–3. Type locality: Rio das Mortes, some 100 km before its confluence with the Braço Maior of the Rio Araguaia (the western border of the Ilha do Bananal), State of Mato Grosso, Brazil. Holotype: MZUSP 37367.

Distribution: 324 (Géry, Uj, 1987a).

Hyphessobrycon amapaensis Zarske, Géry, 1998

Hyphessobrycon amapaensis Zarske, Géry, 1998:20, figs. 1–3. Type locality: Brasilien, Amapa, etwa 45 km noerdlich Macapa. Kleiner Savannenbach an der B 156 von Sitio Camaipi nach Santa Clara, etwa 11 km von Sitio Camaipi (Rio-Preto-Gebiet). [Brazil]. Holotype: MZUSP 52730.

Distribution: 323 (Zarske, Géry, 1998).

Hyphessobrycon amaronensis García-Alzate, Román-Valencia, Taphorn, 2010

Hyphessobrycon amaronensis García-Alzate, Román-Valencia, Taphorn, 2010b:36, figs. 1–3. Type locality: Colombia, Caño Amaron, tributary of Río Putumayo, Puerto Leguizamo, Putumayo, (0° 11'2"S, 74° 53'14"W). IUQ 2286.

Distribution: 316 (García-Alzate *et al.*, 2010b).

Hyphessobrycon arianae Uj, Géry, 1989

Hyphessobrycon arianae Uj, Géry, 1989:148, figs. 2, 3a–b, 4a–g. Type locality: Paraguay, dépt. Caaguazu, Rio Güyraugua, affl. du Rio Monday à 3 km E de Juan Frutos. Holotype: MHNG 2412.79.

Distribution: 343 (Uj, Géry, 1989).

Remarks: (Malabarba (1998) and Carvalho (2011) suggested it could be a junior synonym of *Cheirodon stenodon*, however, this is yet to be fully discussed and demonstrated.

Hyphessobrycon atencioi Ardila Rodríguez, 2022

Hyphessobrycon atencioi Ardila Rodríguez, 2022a:7, figs. 2A, 5A, 7A, 9A, 11B. Type locality: Colombia, Quebrada Santa Cruz, afluente del río Tigre. Parte alta del río Sinú. PNN- Paramillo, municipio de Tierralta, Departamento de Córdoba. [Colombia]. Holotype: CAR 966.

Distribution: 302 (Ardila Rodríguez, 2022a).

Hyphessobrycon auca Almirón, Casciotta, Bechara, Ruíz Díaz, 2004

Hyphessobrycon auca Almirón, Casciotta, Bechara, Ruíz Díaz, 2004:674, figs. 1–7.

Type locality: Argentina, Corrientes, Esteros del Iberá, Pond in San Juan Poriahú farm (27° 41'53"S, 57° 12'17"W). Holotype: MACN 8647.

Distribution: 345 (Almiron *et al.*, 2004).

Hyphessobrycon axelrodi (Travassos, 1959)

Aphyocharax axelrodi Travassos, 1959:6, figs. 1–4. Type locality: Near Piarco airport, Trinidad, T.B.W. Holotype: MNRJ 9120.

Distribution: 311 (Travassos, 1959).

Remarks: Very likely a species belonging to the genus *Pristella* Conde-Saldaña *et al.* (2019:444), Lima *et al.* (2021:345) pending confirmation through a phylogenetic analysis that includes the species.

Hyphessobrycon balbus Myers, 1927

Hyphessobrycon balbus Myers, 1927:115. Type locality: Brazil: Planaltina, Lagoa Fervedeira, Goyaz. [Planaltina, Goiás State]. Holotype: CAS 51789.

Distribution: 344 (Myers, 1927; FR Carvalho, pers. obs.).

Hyphessobrycon barranquilla Ardila Rodríguez, 2022

Hyphessobrycon barranquilla Ardila Rodríguez, 2022b:6, figs. 1–3, 5A, 6A, 7A, 8A, 9, 10A, 11A, 12–14. Type locality: Colombia. Arroyo Grande, afluente del río Magdalena, municipio de Ponedera, 15 m.s.n.m., Departamento del Atlántico. [Colombia]. Holotype: CAR 950.

Distribution: 302 (Ardila Rodríguez, 2022b).

Hyphessobrycon bayleyi Lima, Bastos, Rapp Py-Daniel, Ota, 2022

Hyphessobrycon bayleyi Lima, Bastos, Rapp Py-Daniel, Ota, 2022:254, figs. 1–4. Type locality: Brazil, Amazonas, Benjamin Constant, Igarapé do Palhau, Ramal do Incra, 4° 24'28"S, 70° 1'24"W. [Brazil]. Holotype: ZUEC 17121.

Distribution: 316, 321 (Lima, Bastos, Rapp Py-Daniel, Ota, 2022).

Hyphessobrycon bentosi Durbin, 1908

Hyphessobrycon bentosi Durbin, in Eigenmann, 1908:101. Type locality: Obidos. [Óbidos, Pará State, Brazil]. Syntypes: (19) CAS 42682 (3), MCZ 20842 (13), USNM 120270 (3).

Distribution: 307, 308, 310, 311, 314, 315, 316, 319, 320, 321, 325, 326.

Remarks: See comments on the species in Weitzman, Palmer (1997a:229–231), and Lima *et al.* (2013:276–277).

Hyphessobrycon bifasciatus Ellis, 1911

Hyphessobrycon bifasciatus Ellis, 1911:156, Pl. 2 (fig. 4), Pl. 3 (fig. 1). Type locality: Campos. [Campos dos Goyatacazes, Rio de Janeiro State, Brazil]. Holotype: FMNH 54404.

Distribution: 328, 329, 352, 330, 344, 331, 335, 334 (Ellis, 1911; Lima *et al.*, 2003).

Hyphessobrycon borealis Zarske, Le Bail, Géry, 2006

Hyphessobrycon borealis Zarske, Le Bail, Géry, 2006:25, figs. 7–10. Type locality: French Guiana, Mana, Crique St. Anne. Holotype: MNHN 2006-0787.

Distribution: 311.

Hyphessobrycon boulengeri (Eigenmann, 1907)

Hemigrammus boulengeri Eigenmann, in Eigenmann, Ogle, 1907:15. Type locality: Rio Grande do Sul, Brazil. [type locality restricted to Laguna dos Patos system by Malabarba (1989:134)]. Holotype: CAS 44379.

Distribution: 332, 334, 335, 331, 346, 344, 330, 352 (Carvalho, 2006).

Remarks: Possibly a senior synonym of *Hyphessobrycon reticulatus*.

Hyphessobrycon brumado Zanata, Camelier, 2010

Hyphessobrycon brumado Zanata, Camelier, 2010:772, figs. 1–4. Type locality: Brazil, Bahia, Rio Brumado, Rio de Contas Municipality, rio Brumado, at Ponte do Coronel, rio de Contas drainage, 13°29'37.0"S, 41°52'0.6"W. Holotype: MZUSP 101246.

Distribution: 328 (Zanata, Camelier, 2010).

Hyphessobrycon bussingi Ota, Carvalho, Pavanelli, 2020

Hyphessobrycon bussingi Ota, Carvalho, Pavanelli, 2020:403, figs. 1–3, 5a, 6a. Type locality: Costa Rica, Limón, río Cocolis, 3.5 km southeast of Shiroles, on road Bratsi-Shiroles, 09°34'05"N, 82°56'4.92"W. Holotype: UCR 3302-001.

Distribution: 207 (Ota *et al.*, 2020).

Hyphessobrycon cachimbensis Travassos, 1964

Hyphessobrycon cachimbensis Travassos, 1964:542, fig. 5. Type locality: Rio Cachimbo, Cachimbo, Aeroporto da FAB. Abaixo do Salto, Estado do Pará, 9°22'S, 54°55'W. [The type locality is located near the watershed boundaries of Tapajós and Xingu river basins, at the Serra do Cachimbo, Brazil. The approximate coordinates given in the original description indicate the headwaters of Tapajós river]. Holotype: MNRJ 9196.

Distribution: 320 (Travassos, 1964).

Hyphessobrycon cantoi Faria, Guimarães, Rodrigues, Oliveira, Lima, 2021

Hyphessobrycon cantoi Faria, Guimarães, Rodrigues, Oliveira, Lima, 2021:5, figs. 1–2, 5A. Type locality: Brazil, Pará State, Santarém, stream tributary of Lago Verde, lower rio Tapajós basin, 02°31'19"S, 54°54'58"W. Holotype: ZUEC 17228.

Distribution: 316 (Faria *et al.*, 2021).

Hyphessobrycon caru Guimarães, Brito, Feitosa, Costa, Ottoni, 2019

Hyphessobrycon caru Guimarães, Brito, Feitosa, Costa, Ottoni, 2019:350, figs. 1, 2a, 3. Type locality: Brazil, Maranhão, state, Buriticupu municipality, Buritizinho river, Pindaré river drainage, Mearim river basin, 04°22'52"S, 46°30'35"W. Holotype: CICCAA 02286.

Distribution: 323 (Guimarães *et al.*, 2019).

Hyphessobrycon chiribiquete García-Alzate, Lima, Taphorn, Mojica, Urbano-Bonilla, Teixeira, 2020

Hyphessobrycon chiribiquete García-Alzate, Lima, Taphorn, Mojica, Urbano-Bonilla, Teixeira, 2020:1445, figs. 1–5. Type locality: Colombia, Departamento del Caquetá, small stream tributary of the Río Tunia, Apaporis-Japurá-Amazon River basin, Serranía de Chiribiquete, Chiribiquete National Natural Park; 01°29'23.3"N, 72°52'35.1"W. Holotype: ICN-MHN 21678.

Distribution: 313, 316 (García-Alzate *et al.*, 2020).

Hyphessobrycon clavatus Zarske, 2015

Hyphessobrycon clavatus Zarske, 2015b:290, figs. 3–8. Type locality: Peru. [Aquarium trade origin, exact provenance uncertain]. Holotype: MTD F 33358.

Distribution: 316? (Zarske, 2015b).

Remarks: Imprecise type locality.

Hyphessobrycon coelestinus Myers, 1929

Hyphessobrycon coelestinus Myers, in Eigenmann, Myers, 1929:535. Type locality:

Lagoa Bonita, into São Bartholomeu, Goyaz, Brazil. [Lagoa Bonita is located at the Estação Ecológica de Águas Emendadas, Planaltina, DF (15° 35' 23" S, 47° 41' 51" W, estimated through Google Earth)]. Holotype: CAS 60476.

Distribution: 344, 327, 324 (Eigenmann, Myers, 1929; Aquino, Carvalho, 2014).

Remarks: Picture of color in life by Aquino, Carvalho (2014).

Hyphessobrycon columbianus Zarske, Géry, 2002

Hyphessobrycon columbianus Zarske, Géry, 2002a:23, figs. 1–2, 8. Type locality: Kolumbien, Darien, kleiner bach etwa 6 km flussaufwaerts von Acandi, Einzugsgebiet des Rio Acandi, Atlantinkueste. [Colombia]. Holotype: MTD F 25497.

Distribution: 301 (Zarske, Géry, 2002a, Ota *et al.*, 2020).

Remarks: Species redescribed by (Ota *et al.*, 2020).

Hyphessobrycon comodoro Dagosta, Seren, Ferreira, Marinho, 2022

Hyphessobrycon comodoro Dagosta, Seren, Ferreira, Marinho, 2022:3, figs. 1–2. Type locality: Brazil, Mato Grosso State, Municipality of Comodoro, lagoon at tributary of the rio Mutum, formed due to the construction of a road, tributary of rio Camararé, upper rio Juruena basin, rio Tapajós basin, 13° 12' 47.6" S, 59° 54' 13.8" W. [Brazil]. Holotype: MZUSP 125904.

Distribution: 320 (Dagosta *et al.*, 2022).

Hyphessobrycon compressus (Meek, 1904)

Hemigrammus compressus Meek, 1904:87, fig. 25. Type locality: El Hule, Oaxaca. Basin of the Rio Papaloapam. (El Hule; Obispo.). [Mexico]. Holotype: FMNH 4641.

Hyphessobrycon compressus milleri Durbin, in Eigenmann, 1908:100. Type locality: Los Amates, Guatemala. Holotype: CAS 70155.

Distribution: 171, 174, 202 (Carvalho, Malabarba, 2015).

Hyphessobrycon condotensis Regan, 1913

Hyphessobrycon condotensis Regan, 1913b:465. Type locality: Rio Condoto (...) and the Rio San Juan. [Colombia, Depto. Chocó]. Lectotype: BMNH 1913.10.1.19. [Designated by Ota *et al.*, 2020].

Hyphessobrycon sebastiani García-Alzate, Román-Valencia, Taphorn, 2010a:56, figs. 1–4. Type locality: Colombia, Pacific versant, Chocó, Isthmina, San Juan River drainage, Patecucho Creek, approximately 5° 09' N, 76° 40' W. Holotype: IUQ 1942. Synonymy proposed by Ota *et al.*, 2020.

Distribution: 301 (Ota *et al.*, 2020).

Remarks: Species redescribed by Ota *et al.*, 2020.

Hyphessobrycon copelandi Durbin, 1908

Hyphessobrycon copelandi Durbin, in Eigenmann, 1908:101. Type locality: Tabatinga. [Brazil, Amazonas, near Tabatinga (rio Solimões), ca. 4° 14' S, 69° 57' W]. Syntypes: (99) CAS 42683 (5), MCZ 20771 (88), USNM 120271 (6).

Distribution: 308, 310, 311, 314, 315, 316, 319, 320, 321, 322, 323.

Remarks: See Weitzman, Palmer (1997a:226) and Planquette *et al.* (1996:288–289) for miscellaneous observations on the species.

Hyphessobrycon corozalensis Ardila Rodríguez, 2022

Hyphessobrycon corozalensis Ardila Rodríguez, 2022a:10, figs. 2B, 5C, 7C, 10A, 12A. Type locality: Colombia, parte baja del Arroyo Grande de Corozal. Santiago.

Município de San Benito Abad, 142 msnm. Departamento de Sucre. Holotype: CAR 965.

Distribution: 302 (Ardila Rodríguez, 2022a).

Hyphessobrycon cyanotaenia Zarske, Géry, 2006

Hyphessobrycon cyanotaenia Zarske, Géry, 2006a:43, figs. 14–16. Type locality: (..) vermutlich Brasilien, Para, rio Guamá. [The type locality is very likely incorrect. The species was recently found in the upper portions of the rio Juruena (rio Tapajós basin) and rio Guaporé (rio Madeira basin), Mato Grosso State, Brazil, a region both far from and biogeographically not related to the rio Guamá drainage, which is a small river system draining directly to the rio Amazonas, Pará State, Brazil (Dagosta *et al.*, 2016)]. Holotype: MTD F 28760.

Distribution: 319, 320 (Dagosta *et al.*, 2016).

Remarks: Redescription and comments on the distribution in Dagosta *et al.* (2016).

Hyphessobrycon daguae Eigenmann, 1922

Hyphessobrycon panamensis var. *daguae* Eigenmann, 1922:141. Type locality: Dagua and Patia basins. [Colombia]. Lectotype: FMNH 58316. [Designated by Ota *et al.*, 2020:420].

Hyphessobrycon choacoensis García-Alzate, Román-Valencia, Taphorn, 2013:184, figs. 1–3. Type locality: Colombia, Nariño, Barbacoas, Quebrada la Tundera afluente del río Quigualpí, 01° 39'39"N, 78° 09'04"W. Holotype: IUQ 3035. Synonymy proposed by Ota *et al.*, 2020.

Distribution: 301 (Ota *et al.*, 2020).

Remarks: Considered a valid species and redescribed by Ota *et al.* (2020).

Hyphessobrycon delimai Teixeira, Netto-Ferreira, Birindelli, Sousa, 2016

Hyphessobrycon delimai Teixeira, Netto-Ferreira, Birindelli, Sousa, 2016:460, figs. 1, 2, 3a, 4. Type locality: Brazil, Pará State, município de Itaituba, Igarapé Tatu, tributary of Rio Novo, Rio Tapajós basin; 06° 18'24.8"S, 55° 46'38.0"W. Holotype: MZUSP 115065.

Distribution: 320 (Teixeira *et al.*, 2016).

Hyphessobrycon diancistrus Weitzman, 1977

Hyphessobrycon diancistrus Weitzman, 1977b:349, figs. 1–5. Type locality: Colombia, State of Vichada, Río Vichada, about 50 km west of San José de Ocné (4° 14'N, 70° 20'W), Orinoco river basin. Holotype: USNM 216607.

Distribution: 307, 308, 314, 315, 316, 320, 321, 322* (Weitzman, 1977b; Lima, Sousa, 2009; Lima *et al.*, 2013; Ota *et al.*, 2015; Ohara *et al.*, 2017; Lima *et al.*, 2022).

Remarks: See remarks on the species on García-Alzate *et al.* (2008b), Lima *et al.* (2013), Ota *et al.* (2015), Ohara *et al.* (2017), and Lima *et al.* (2022).

Hyphessobrycon diastatos Dagosta, Marinho, Camelier, 2014

Hyphessobrycon diastatos Dagosta, Marinho, Camelier, 2014:366, figs. 1–3, 6. Type locality: Brazil, Bahia, São Desidério, rio Galheirão (or rio da Estiva) at BR-020 road, affluent of rio Grande, rio São Francisco basin, 12° 58'42.7"S, 45° 59'28.7"W, 802 m above sea level. Holotype: MZUSP 114030.

Distribution: 324, 327 (Dagosta *et al.*, 2014).

Hyphessobrycon dorsalis Zarske, 2014

Hyphessobrycon dorsalis Zarske, 2014:162, figs. 21–23. Type locality: Brasilien,

Umgebung von Manaus. [Aquarium trade origin, exact provenance uncertain].
Holotype: MTD F 33119.

Distribution: 314, 316, 321, 320 (Lima *et al.*, 2013; Zarske, 2014; Ohara *et al.*, 2017:201; FR Carvalho, pers. obs.).

Remarks: *Hyphessobrycon* sp. “*falso Microschemobrycon*” in Lima *et al.* (2013:284–285), corresponds to *Hyphessobrycon dorsalis* (see also Ohara *et al.*, 2017:201).

***Hyphessobrycon duragenys* Ellis, 1911**

Hyphessobrycon duragenys Ellis, 1911:155, Pl. 2 (fig. 3). Type locality: Mogy das Cruzes, Rio Tieté. [Mogi das Cruzes, São Paulo State, Brazil]. Holotype: FMNH (missing).

Distribution: 344, 330, 329 (Ellis, 1911; Lima *et al.*, 2003; Langeani, 2008).

***Hyphessobrycon ecuadorensis* (Eigenmann, 1915)**

Megalampodus ecuadorensis Eigenmann, 1915:99. Type locality: Naranjito, Rio Chan Chan, Ecuador. [Ecuador, Provincia Guayas, ca. 2°12'S, 79°25'W]. Holotype: CAS (missing).

Distribution: 301 (Eigenmann, 1915).

Remarks: See Weitzman, Palmer (1998:129–130) and Lima *et al.* (2003:135–136) for the near homonymy between this species and *Hyphessobrycon ecuadoriensis* Eigenmann, Henn, 1914.

***Hyphessobrycon ecuadoriensis* Eigenmann, Henn, 1914**

Hyphessobrycon ecuadoriensis Eigenmann, Henn, in Eigenmann, Henn, Wilson, 1914:9. Type locality: Forest pool near Vinces, Ecuador. [Ecuador, Provincia Los Ríos, Río Guayas basin, ca. 1°33'S, 79°44'W]. Holotype: CAS 61602.

Distribution: 301 (Eigenmann, Henn, Wilson, 1914).

Remarks: See “Remarks” of *Hyphessobrycon ecuadorensis* (Eigenmann, 1915).

***Hyphessobrycon eilyos* Lima, Moreira, 2003**

Hyphessobrycon eilyos Lima, Moreira, 2003:25, figs. 6–7. Type locality: Brazil, Mato Grosso, município de Alto Araguaia, ribeirão do Sapo, km 464.04 of Ferronorte railroad, 17°31'11”S, 53°15'33”W. Holotype: MZUSP 75126.

Distribution: 324 (Lima, Moreira, 2003).

***Hyphessobrycon elachys* Weitzman, 1985**

Hyphessobrycon elachys Weitzman, 1985:800, figs. 1–5. Type locality: Paraguay, Departamento San Pedro, swamp 3 km northwest of Lima, Río Aguaray-guazu system, 23°55'S, 56°29'W. Holotype: USNM 232393.

Distribution: 343, 319 (Weitzman, 1985; Ota *et al.*, 2014).

***Hyphessobrycon eos* Durbin, 1909**

Hyphessobrycon eos Durbin, 1909:69. Type locality: Creek between Potaro Landing and Kangaruma. [Guyana, Potaro-Siparuni, Potaro River]. Holotype: FMNH 52795.

Distribution: 310 (Durbin, 1909).

***Hyphessobrycon epicharis* Weitzman, Palmer, 1997**

Hyphessobrycon epicharis Weitzman, Palmer, 1997a:214, figs. 1–4. Type locality: Venezuela, State of Amazonas, head waters of Río Baria (= Río Mawarinuma of Ferraris *et al.*, 1986:69), tributary mouth, 3 km downstream from Neblina base camp on left bank, 0°55'N, 66°10'W, elevation 120 m. Holotype: MBUCV-V-20800.

Distribution: 308, 314 (Weitzman, Palmer, 1997a).

Hyphessobrycon eques (Steindachner, 1882)

Chirodon eques Steindachner, 1882c:179. Type locality: Villa bella, Obidos. [Parintins (before Vila Bela da Imperatriz), Amazonas State and Óbidos, Pará State, Brazil]. Syntypes (9): NMW 59810 (2), NMW 62693 (6), NMW 95056 (1).

Tetragonopterus callistus Boulenger, 1900a:2. Type locality: Carandosoíño. [Carandazinho, near Corumbá, Mato Grosso do Sul State, Brazil]. Syntypes (19): BMNH 1900.4.14.63–68 (6), MSNG 37718 (2), MZUT 1365 (11).

Hemigrammus melasopterus Eigenmann, Kennedy, 1903:518. Type locality: Aguada, near Arroyo Trementina. [Depto. Concepción, probably a tributary of Río Aquidaban, ca.23°3'S, 57°0'W]. Holotype: CAS 44381.

Hyphessobrycon serpae Durbin, in Eigenmann, 1908:100. Type locality: Serpa. [Itacoatiara (before Serpa), Amazonas State, Brazil]. Syntypes: (41) CAS 42684 (5), MCZ 20985 (33), USNM 120269 (6).

Distribution: 316, 319, 332, 343, 344, 345 (Weitzman, Palmer, 1997a; Weitzman, Palmer, 1997c; Britski *et al.*, 1999).

Remarks: See Weitzman, Palmer (1997a, 1997c) for miscellaneous comments on the species. Introduced in several additional regions not indicated in the distribution.

Hyphessobrycon ericae Moreira, Lima, 2017

Hyphessobrycon ericae Moreira, Lima, 2017a:124, figs. 1–2. Type locality: Brazil, Pará, Oriximiná, Igarapé do Almeidas, rio Trombetas basin, Almeidas plateau, Floresta Nacional Saracá-Taquera, 1°43'15"S, 56°25'3"W. Holotype: MNRJ 50000.

Distribution: 316, 321 (Moreira, Lima, 2017a).

Hyphessobrycon erythrostigma (Fowler, 1943)

Hemigrammus erythrostigma Fowler, 1943f:33, fig. 1. Type locality: An aquarium fish without locality, supposed to have been secured in Brazil. [See Weitzman (1977:335) for observations about type locality]. Holotype: ANSP 70208.

Hyphessobrycon rubrostigma Hoedeman, 1956c:312, figure unnumbered on page 313. Type locality: Kolumbien (?). [Colombia (?)]. Holotype: ZMA 101935a.

Distribution: 316 (Weitzman, 1977a; Weitzman, Palmer, 1997b).

Remarks: Redescribed by Weitzman (1977a).

Hyphessobrycon eschwartzae García-Alzate, Román-Valencia, Ortega, 2013

Hyphessobrycon eschwartzae García-Alzate, Román-Valencia, Ortega, 2013:865, figs. 3–5. Type locality: La Cachuela, Rio Madre de Dios, Tambopata, Madre de Dios, 12°16'38.2" S, 69°09'8.12"W. Holotype: MUSM 42392.

Distribution: 318 (García-Alzate, Román-Valencia, Ortega, 2013).

Hyphessobrycon fernandesi Fernández-Yépez, 1972

Hyphessobrycon fernandesi Fernández-Yépez, 1972:20, Pl. 20. Type locality: Río Yaracuy. [Type-locality restricted by Garcia-Alzate *et al.* (2008:145) to "Venezuela, Quebrada Cupa, finca de Víctor Atria, Cerca a Aroa en la vía a Duaca, 10°29'50"N, 68°52'20"W, Yaracuy"]. Neotype: MBUCV-V-34105. [Neotype designated by Garcia-Alzate *et al.* (2008b:145)].

Distribution: 304, 307 (Garcia-Alzate *et al.*, 2008b).

Remarks: See Garcia-Alzate *et al.* (2008b:145–149) for a redescription.

Hyphessobrycon flammeus Myers, 1924

Hyphessobrycon flammeus Myers, 1924a:330, figure unnumbered on page 330. Type

locality: Rio de Janeiro. [Brazil]. Syntypes: USNM 92969 (2).

Distribution: 352, 344, 329 (Lima, Moreira, 2008; Carvalho *et al.*, 2014).

Remarks: Species presumably introduced in upper rio Paraná basin by aquarists (Lima, Moreira, 2008; Carvalho *et al.*, 2014).

Hyphessobrycon frankei Zarske, Géry, 1997

Hyphessobrycon frankei Zarske, Géry, 1997b:309, figs. 1, 3. Type locality: Bach an der Carretera Central, zehn Kilometer westlich Aguaytia. [Peru, depto. Loreto, near Pucallpa]. Holotype: MTD F 17706.

Distribution: 317 (Zarske, Géry, 1997b).

Hyphessobrycon frickei Guimarães, Brito, Bragança, Katz, Ottoni, 2020

Hyphessobrycon frickei Guimarães, Brito, Bragança, Katz, Ottoni, 2020:85, figs. 1–2.

Type locality: Brazil, Maranhão State, Maracaçumé municipality, Maracaçumé River; 2°3'14"S, 45°57'16"W. Holotype: CICCAA 02363.

Distribution: 323 (Guimarães *et al.*, 2020).

Hyphessobrycon georgettae Géry, 1961

Hyphessobrycon georgetti Géry, 1961a:121, figs. 1–3. Type locality: Sipaliwini, sta. 48, a swampcreek in Paru savannah. [Suriname]. Holotype: ZMA 103269.

Distribution: 315 (Mol, 2012).

Remarks: Original spelling *georgetti* corrected to *georgettae* by Géry, 1964f:59. See comments in Weitzman, Palmer (1997:235) and Mol (2012).

Hyphessobrycon geryi Guimarães, Brito, Bragança, Katz, Ottoni, 2020

Hyphessobrycon geryi Guimarães, Brito, Bragança, Katz, Ottoni, in Guimarães, Brito, Bragança, Katz, Ottoni, 2020:89, figs. 4–6. Type locality: Brazil, Pará State, Marabá municipality, Flexeiras River, Tocantins River basin; 5°15'38"S, 48°59'35"W. Holotype: CICCAA 02403.

Distribution: 324 (Guimarães *et al.*, 2020).

Hyphessobrycon gracilior Géry, 1964

Hyphessobrycon gracilior Géry, 1964b:12, figs. 10–11. Type locality: Petit ruisseau faisant communiquer le “Zapote Cocha” avec le “Caño Yarina”, en bordure du Rio Pacaya, affluent du canal de Puinahua (bras du bas Rio Ucayali). Holotype: ZFMK 1329.

Distribution: 316 (Géry, 1964b).

Hyphessobrycon griemi Hoedeman, 1957

Hyphessobrycon griemi Hoedeman, 1957:87, figs. 1–3. Type locality: Gojas, Brasilien. [Type locality is certainly incorrect, since the species is restricted to coastal rivers of southeastern Brazil, from São Paulo to Santa Catarina (see also Lima, Moreira, 2003:31)]. Holotype: ZMA 101936a.

Hyphessobrycon flammeus guabirubae Godoy, 1987:220, fig. 21a. Type locality: Lagoa entre Guabiruba e Brusque, SC, bacia do rio Itajaí-Mirim. [This lagoon is situated at the Brusque Municipality, Santa Catarina State (27°05'43"S, 48°56'59"W), Brazil]. Syntypes: Author's coll. (4).

Distribution: 330, 331 (Weitzman *et al.*, 1988; Menezes *et al.*, 2006).

Hyphessobrycon hamatus Bertaco, Malabarba, 2005

Hyphessobrycon hamatus Bertaco, Malabarba, 2005:84, figs. 1–2. Type locality: Brazil, Goiás, Mambai, córrego Cana Brava, tributary of rio Vermelho, rio Tocantins drainage, 14°29'S, 46°6'W. Holotype: MCP 34000.

Distribution: 324 (Bertaco, Malabarba, 2005).

Hyphessobrycon haraldschultzi Travassos, 1960

Hyphessobrycon haraldschultzi Travassos, 1960a:5, fig. 1 and figure unnumbered on page 5. Type locality: Ilha do Bananal, Goiaz-Brazil. [Ilha do Bananal, now Tocantins State]. Holotype: MNRJ 9207.

Distribution: 324 (Travassos, 1960a).

Hyphessobrycon hasemani Fowler, 1913

Hyphessobrycon hasemani Fowler, 1913b:545, fig. 13. Type locality: Madeira River above Falls of Guajaramirim, approximately in Lat. S. 10° 47', Long. W. 65° 23', Brazil. Holotype: ANSP 39230.

Distribution: 321 (Fowler, 1913b; Lima *et al.*, 2013).

Hyphessobrycon heliacus Moreira, Landim, Costa, 2002

Hyphessobrycon heliacus Moreira, Landim, Costa, 2002:428, figs. 1–2. Type locality: Ribeirão Macuco (= Córrego Duas-bocas), tributary of rio Teles Pires, rio Tapajós basin, 71.9 km north from Sinop, município de Cláudia, at the BR-163 road in direction to Santarém, Estado de Mato Grosso, Brazil, 55° 19'W, 11° 15'S. Holotype: MZUSP 52891.

Distribution: 320 (Moreira *et al.*, 2002; Ohara *et al.*, 2017:202).

Hyphessobrycon herbertaxelrodi Géry, 1961

Hyphessobrycon herbertaxelrodi Géry, 1961d:29, fig. 4. Type locality: Coxim on the Rio Taquary (Rio Paraguay Basin), State of Mato Grosso, Brazil. Holotype: USNM 196089.

Distribution: 344, 345 (Géry, 1961d; Britski *et al.*, 2009; Carvalho, Langeani, 2013).

Remarks: Recorded from the upper rio Paraná basin by Carvalho, Langeani (2013).

Hyphessobrycon heterorhabdus (Ulrey, 1894)

Tetragonopterus heterorhabdus Ulrey, 1894:610. Type locality: Brazil. [Type locality subsequently restricted by Ulrey (1895:287) to “Para; Brazil”]. Syntypes: (several) CAS 44415 (9), 44416 (6); SU 2174 (1).

Distribution: 316, 323.

Hyphessobrycon hexastichos Bertaco, Carvalho, 2005

Hyphessobrycon hexastichos Bertaco, Carvalho, 2005a:440, figs. 1–2. Type locality: Brazil, Mato Grosso, Comodoro, rio Mutum on road BR-364 to cidade de Vilhena, tributary of rio Juruena, upper rio Tapajós drainage, 13° 05' 08”S, 59° 53' 32”W. Holotype: MCP 37648.

Distribution: 320 (Bertaco, Carvalho, 2005a).

Hyphessobrycon hildae Fernández-Yépez, 1950

Hyphessobrycon hildae Fernández-Yépez, 1950b:18, Pl. 3 (fig. 4). Type locality: Raudal de Pereza al suroeste del Cerro Autana, en el Rio Autana, afluente del Rio Sipapo y a su vez este del Orinoco. [Venezuela. Approximately 4° 49'N, 67° 29'W (estimated via Google Earth)]. Holotype: MHNLS 989.

Distribution: 308 (Fernández-Yépez, 1950b).

Hyphessobrycon igneus Miquelarena, Menni, López, Casciotta, 1980

Hyphessobrycon igneus Miquelarena, Menni, López, Casciotta, 1980:237, figs. 1a, 2. Type locality: Laguna frente a Escuela N° 12, camino Bella Vista-San Roque, Corrientes. Holotype: MLP 8413. [Miquelarena, Nadalin (2014)].

Distribution: 332, 345, 334, 335 (Miquelarena *et al.*, 1980; Liotta, 2005; Malabarba

et al., 2013; Serra *et al.*, 2014).

Remarks: See Malabarba *et al.* (2013) and Serra *et al.* (2014) for general information on the species.

Hyphessobrycon inconstans (Eigenmann, Ogle, 1907)

Hemigrammus inconstans Eigenmann, Ogle, 1907:17, fig. 4. Type locality: Para (?), Brazil. [The correct provenance of the type specimens of *H. inconstans* is probably incorrect and more likely Colombia according to Eigenmann (1918b:201)]. Holotype: USNM 34591 [not 55652].

Distribution: uncertain.

Remarks: See comments under *Hyphessobrycon proteus*.

Hyphessobrycon isiri Almirón, Casciotta, Koerber, 2006

Hyphessobrycon isiri Almirón, Casciotta, Koerber, 2006:890, figs. 1–4. Type locality: Argentina, Entre Ríos, río Uruguay basin, Arroyo Ubajay, a place called “Manantiales” within the farm “Los Monigotes” (31°48,94’ S, 58°12,41’W). Holotype: MACN-Ict 8907. [Almirón *et al.*, (2006)].

Distribution: 332 (Almiron *et al.*, 2006).

Hyphessobrycon itaparicensis Lima, Costa, 2001

Hyphessobrycon itaparicensis Lima, Costa, 2001:234, figs. 1–2. Type locality: Brazil: Estado da Bahia, small stream in ilha de Itaparica. Holotype: MZUSP 58539.

Hyphessobrycon ellisae Bragança, Ottoni, Rangel-Pereira, 2015:256, fig. 1. Type locality: Brazil: Sergipe State: Município de Estância: about 8 km north of Santa Cruz do Abais; about 11°15’S, 37°16’W. Holotype: UFRJ 5281. Preoccupied by *Hyphessobrycon ellisi* Pearson, 1924 (emended into *ellisae*; Bragança *et al.*, 2016). Replaced by *Hyphessobrycon sergipanus* Bragança, Ottoni, Rangel-Pereira, 2016.

Hyphessobrycon sergipanus Bragança, Ottoni, Rangel-Pereira, 2016:373. Type locality: Brazil: Sergipe State: Município de Estância: about 8 km north of Santa Cruz do Abais; about 11°15’S, 37°16’W. Holotype: UFRJ 5281. Replacement for *Hyphessobrycon ellisae* Bragança, Ottoni, Rangel-Pereira (2015); Synonymy proposed by Zanata *et al.*, 2018.

Distribution: 328 (Lima, Costa, 2001; Zanata *et al.*, 2018).

Hyphessobrycon jackrobertsi Zarske, 2014

Hyphessobrycon jackrobertsi Zarske, 2014:147, figs. 7–9. Type locality: Vermutlich Umgebung von Iquitos. [Aquarium trade origin, exact provenance uncertain]. Holotype: MTD F 33042.

Distribution: 316? (Zarske, 2014).

Remarks: Imprecise type locality.

Hyphessobrycon juruna Faria, Lima, Bastos, 2018

Hyphessobrycon juruna Faria, Lima, Bastos, 2018:2, figs. 1–3. Type locality: Brazil, Pará, Ourilândia do Norte, Rio Mogno, trib. rio Carapanã (rio Fresco basin), 6°33’19”S, 51°14’47”W. Holotype: MPEG 34066.

Distribution: 322 (Faria *et al.*, 2018).

Hyphessobrycon kayabi Teixeira, Lima, Zuanon, 2014

Hyphessobrycon kayabi Teixeira, Lima, Zuanon, 2014:613, fig. 1–3. Type locality: Brazil, Mato Grosso State, Apiacás, Rio Teles Pires, Lagoa Azul, 9°06’01”S, 57°03’56”W. Holotype: INPA 35100.

Distribution: 320 (Teixeira *et al.*, 2014; Ohara *et al.*, 2017:203).

Hyphessobrycon khardinae Zarske, 2008

Hyphessobrycon khardinae Zarske, 2008b:6, figs. 1–6. Type locality: Brasilien, Amazonas, Umgebung von Lago Cassianá, Tapaua, rio Itaparaná. Holotype: MZUSP 98667. [Holotype possibly lost].

Distribution: 316 (Zarske, 2008b).

Hyphessobrycon klausanni García-Alzate, Urbano-Bonilla, Taphorn, 2017

Hyphessobrycon klausanni García-Alzate, Urbano-Bonilla, Taphorn, 2017:128, figs. 1, 2A, 3. Type locality: Colombia, Meta, Mapiripán County, upper Guaviare River drainage, Caño Claro, 03°07'05.1"N, 72°30'14.8"W; 209 masl. Holotype: UARC-IC 539.

Distribution: 307 (García-Alzate *et al.*, 2017).

Hyphessobrycon krenakore Teixeira, Netto-Ferreira, Birindelli, Sousa, 2016

Hyphessobrycon krenakore Teixeira, Netto-Ferreira, Birindelli, Sousa, 2016:466, figs. 3b, 6–8. Type locality: Brazil, Pará, Altamira, pond below bridge at road BR163, near Castelo dos Sonhos, tributary of Rio Curuá, Rio Xingu basin; 08°15'17.0"S, 55°06'40.0"W. Holotype: MZUSP 97605.

Distribution: 322 (Teixeira *et al.*, 2016).

Hyphessobrycon langeanii Lima, Moreira, 2003

Hyphessobrycon langeanii Lima, Moreira, 2003:22, figs. 1–4. Type locality: Brazil, Mato Grosso, município de Alto Araguaia, córrego Mosquito, km 476.3 of Ferronorte railroad, 17°25'8"S, 53°13'60"W. Holotype: MZUSP 75127.

Distribution: 324 (Lima, Moreira, 2003).

Hyphessobrycon loretoensis Ladiges, 1938

Hyphessobrycon loretoensis Ladiges, in Arnold, 1938:645, fig. 9. Type locality: Loretogebiet am peruanischen Teil des Amazonas [Peru]. Lectotype: ZMH H59. [Designated by Ladiges *et al.* (1958), not by Géry (1961d). See Marinho *et al.* (2016a)].

Distribution: 316 (Ladiges in Arnold, 1938; Géry, 1961d).

Hyphessobrycon loweae Costa, Géry, 1994

Hyphessobrycon loweae Costa, Géry, 1994:71, figs. 1–2. Type locality: Brazil: Estado de Mato Grosso, córrego Xavante, a tributary of rio Culuene, rio Xingú basin, 40 km S of Paranatinga, 15°01'S, 54°03'W. [Actual coordinates of the type locality approximately 14°43'S, 54°04'W (Ingenito *et al.*, 2013:38)]. Holotype: MNRJ 12437.

Distribution: 322, 324 (Ingenito *et al.*, 2013).

Remarks: For additional data on the species, including a range extension, see Ingenito *et al.* (2013).

Hyphessobrycon lucenorum Ohara, Lima, 2015

Hyphessobrycon lucenorum Ohara, Lima, 2015:563, figs. 1–2, 5. Type locality: Brazil, Rondônia, Vilhena, rio Madeira basin, upper rio Machado, tributary of igarapé Piracolina, near road BR-364, 12°48'56.5"S, 60°06'37.6"W. Holotype: MZUSP 115556.

Distribution: 319 (Ohara, Lima, 2015).

Hyphessobrycon margitae Zarske, 2016

Hyphessobrycon margitae Zarske, 2016:106, figs. 1–4, 10A. Type locality: Peru, Loreto, Einzugsgebiet des río Nanay. [Aquarium trade origin, exact provenance

- uncertain]. Holotype: MTD F 35090.
 Distribution: 316 (Zarske, 2016).
- Hyphessobrycon mavro*** García-Alzate, Román-Valencia, Prada-Pedrerros, 2010
Hyphessobrycon mavro García-Alzate, Román-Valencia, Prada-Pedrerros, 2010:445, figs. 1–2, 5. Type locality: Colombia, Vichada, Caño Payara, afluente de Caño Negro, Puerto Carreño, Approx 6° 12'N, 67° 28'W. Holotype: IUQ 2791.
 Distribution: 307 (García-Alzate, Román-Valencia, Prada-Pedrerros, 2010).
- Hyphessobrycon megalopterus*** (Eigenmann, 1915)
Megalampodus megalopterus Eigenmann, 1915:50, fig. 14, Pl. 7. Type locality: Cáceres. [Cáceres, Mato Grosso State, Brazil, rio Paraguay basin]. Holotype: FMNH 57823.
Megalampodus rogoaguae Pearson, 1924:33, Pl. 10 (fig. 3). Type locality: Lagoons, Lake Rogoagua. [Beni, Bolivia; ca. 13° 58'S, 66° 53'W (Weitzman, Palmer, 1997a:231)]. Holotype: CAS 98917.
 Distribution: 319, 343 (Eigenmann, 1915; Lima *et al.*, 2013).
- Hyphessobrycon melanostichos*** Carvalho, Bertaco, 2006
Hyphessobrycon melanostichos Carvalho, Bertaco, 2006:302, figs. 1–3. Type locality: Brazil, Mato Grosso, Comodoro, rio Doze de Outubro on road BR 364 between Comodoro and Vilhena, 12° 58'39"S, 60° 00'30"W. Holotype: MCP 39510.
 Distribution: 320 (Carvalho, Bertaco, 2006).
- Hyphessobrycon melazonatus*** Durbin, 1908
Hyphessobrycon melazonatus Durbin, in Eigenmann, 1908:101. Type locality: Lago do Maximo. ["Lago do Maximo" is a small lake near Parintins, Amazonas, Brazil (approximate coordinates 2° 40'S, 56° 45'W) (Higuchi, 1996)]. Lectotype: MCZ 20737. [Designated by Eigenmann (1918b:196)].
 Distribution: 316 (Durbin, 1908).
- Hyphessobrycon meridionalis*** Ringuelet, Miquelarena, Menni, 1978
Hyphessobrycon meridionalis Ringuelet, Miquelarena, Menni, 1978:248, figs. 2–3. Type locality: Cantera sobre ruta provincial N°15, 70 m al sur del canal Delgado, a 30 m del camino en dirección al Río de la Plata (Los Talas, Pcia. De Buenos Aires). [Argentina]. Holotype: MLP 8339. [Miquelarena, Nadalin (2014)].
 Distribution: 345, 332, 334, 335 (Malabarba, 1989; Liotta, 2005; Malabarba *et al.*, 2013; Serra *et al.*, 2014).
 Remarks: See Malabarba *et al.* (2013) and Serra *et al.* (2014) for general information on the species.
- Hyphessobrycon metae*** Eigenmann, Henn, 1914
Hyphessobrycon metae Eigenmann, Henn, 1914:233. Type locality: Barrigona, Rio Meta. [Barrigona = Puerto Barrigón, located near present Puerto Porfía, at Río Humea, a tributary of Río Meta (ca. 4° 10'N, 73° 1'W) (Colombia, depto. Meta)]. Holotype: CAS 61751.
 Distribution: 307 (Eigenmann, Henn, 1914; Taphorn, 1992).
- Hyphessobrycon micropterus*** (Eigenmann, 1915)
Megalampodus micropterus Eigenmann, 1915:54, fig. 16, Pl. 8 (fig. 1). Type locality: Lagoa do Porto. [Brazil, Bahia, rio São Francisco basin, near Barra (11° 5'S, 43° 38'W)]. Holotype: FMNH 57916.
 Distribution: 327 (Eigenmann, 1915).

Hyphessobrycon minimus Durbin, 1909

Hyphessobrycon minimus Durbin, 1909:68. Type locality: Cane Grover Corner. [Guyana, near Mahaica, ditches draining into Mahaica River (ca. 6°37'N, 57°55'W)]. Holotype: FMNH 52794.

Distribution: 310 (Durbin, 1909).

Hyphessobrycon minor Durbin, 1909

Hyphessobrycon minor Durbin, 1909:65. Type locality: Konawaruk. [Guyana, Essequibo River, approximately 6°37'N, 57°55'W]. Holotype: FMNH 52789 (missing).

Distribution: 310 (Durbin, 1909).

Hyphessobrycon moniliger Moreira, Lima, Costa, 2002

Hyphessobrycon moniliger Moreira, Lima, Costa, 2002:74, figs. 1–5. Type locality: Brazil: Tocantins: município de Araguaçu, farm Praia Alta 2, Araguaçu to Barreira do Piqui road, 27 Km N from Araguaçu, pool behind farm's house, rio Água Fria basin, 12°42'S, 49°55'W. [Actual coordinates of the type locality 12°44'49"S, 49°56'38"W (estimated via Google Earth)]. Holotype: MZUSP 67466.

Distribution: 320, 322, 324 (Moreira *et al.*, 2002; Lima, Ribeiro, 2011; Ohara *et al.*, 2017:204).

Remarks: The presence of the species at the upper rio Xingu basin, which was considered very likely by Moreira *et al.* (2002), was confirmed and mapped by Lima, Ribeiro (2011). The species was introduced in the upper rio Paraná basin (Zawadzki *et al.*, 2008:400) (not included in the distribution).

Hyphessobrycon montagi Lima, Coutinho, Wosiacki, 2014

Hyphessobrycon montagi Lima, Coutinho, Wosiacki, 2014:168, figs. 1–3. Type locality: Brazil, Pará, Juruti, Igarapé Socó Barroso (trib. rio Arapiuns), 2°27'54"S, 56°0'25"W. Holotype: MPEG 29970.

Distribution: 316 (Lima *et al.*, 2015).

Hyphessobrycon mutabilis Costa, Géry, 1994

Hyphessobrycon mutabilis Costa, Géry, 1994:74, figs. 6–7. Type locality: Brazil: Estado de Mato Grosso, tributary of rio Sete de Setembro, rio Xingú basin, 107 km SW of Canarana, 13°51'S, 52°40'W. Holotype: MNRJ 12438.

Distribution: 322 (Costa, Géry, 1994).

Hyphessobrycon myrmex Pastana, Dagosta, Esguícero, 2017

Hyphessobrycon myrmex Pastana, Dagosta, Esguícero, 2017:1302, figs. 1, 2, 3a–b. Type locality: Brazil, Mato Grosso, Campos de Júlio, Rio Formiga at PCH Divisa, upper Rio Juruena, Rio Tapajós basin, 13°22'29.3"S, 59°08'35.2"W. Holotype: MZUSP 118671.

Distribution: 320 (Pastana, Dagosta, Esguícero, 2017).

Hyphessobrycon natagaima García-Alzate, Taphorn, Roman-Valencia, Villa-Navarro, 2015

Hyphessobrycon natagaima García-Alzate, Taphorn, Roman-Valencia, Villa-Navarro, 2015:225, figs. 1–3. Type locality: Natagaima County, upper Magdalena River drainage, Laguna Saldañita, 03°30'83"N, 75°09'30"W, 390 m.a.s.l. Holotype: CZUT-IC 11769.

Distribution: 302 (García-Alzate *et al.*, 2015).

Hyphessobrycon negodagua Lima, Gerhard, 2001

- Hyphessobrycon negodagua* Lima, Gerhard, 2001:106, figs. 1–3. Type locality: Brazil: Bahia; município de Iraquara, rio Pratinha at fazenda Pratinha, 12°21'13"S, 41°32'51"W. Holotype: MZUSP 53989.
Distribution: 328 (Lima, Gerhard, 2001).
- Hyphessobrycon nicolasi*** Miquelarena, López, 2010
Hyphessobrycon nicolasi Miquelarena, López, 2010:1, figs. 1–3. Type locality: Argentina, Entre Ríos Province, Colón Department, El Pelado stream, 32°19'S, 58°14'W. Holotype: CFA-IC 11808. [Bogan *et al.*, 2019:13].
Distribution: 332 (Miquelarena, López, 2010).
- Hyphessobrycon niger*** García-Alzate, Román-Valencia, Prada-Pedrerros, 2010
Hyphessobrycon niger García-Alzate, Román-Valencia, Prada-Pedrerros, 2010:447, figs. 3–5. Type locality: Colombia, Meta, Caño Mojaculo, Vereda Dinamarca, Acacias, Meta, 03°53'20,6"N, 93°28'30"W. Holotype: MPUJ 5657.
Distribution: 307 (García-Alzate *et al.*, 2010).
- Hyphessobrycon nigrincinctus*** Zarske, Géry, 2004
Hyphessobrycon nigrincinctus Zarske, Géry, 2004b:33, figs. 1–3. Type locality: (...) río Reducto, Nebenfluss des río Manuripi, bei der Stadt Alegria, an einem kleinen Waldpfad von der Straße Puerto Maldonado–Inapari in Richtung Bolivien, Madre de Dios, Peru. [Imported from the río Reducto basin, tributary of río Manuripi, near Alegria, a small forest path from the Puerto Maldonado – Inapari road to Bolivia, Madre de Dios, Peru]. Holotype: MTD F 28465.
Distribution: 318 (Zarske, Géry, 2004b).
- Hyphessobrycon notidanos*** Carvalho, Bertaco, 2006
Hyphessobrycon notidanos Carvalho, Bertaco, 2006:304, figs. 4–6. Type locality: Brazil, Mato Grosso, Comodoro, rio Doze de Outubro on road BR 364 between Comodoro and Vilhena, 12°58'39"S, 60°00'30"W. Holotype: MCP 39511.
Distribution: 320 (Carvalho, Bertaco, 2006).
- Hyphessobrycon ocaseensis*** García-Alzate, Román-Valencia, 2008
Hyphessobrycon ocaseensis García-Alzate, Román-Valencia, 2008b:15, figs. 2–3. Type locality: Colombia, río Roble, afluente río La Vieja, 100 m abajo del puente peatonal Playa Azul, reserva natural “Monte del Ocaso”, Quimbaya, Quindío, 4°35'68"N, 75°52'81"W [sic] [coordinates of type locality not precisely given]. Holotype: IUQ 1635.
Distribution: 302 (García-Alzate, Román-Valencia, 2008b).
- Hyphessobrycon olayai*** Ardila Rodríguez, 2022
Hyphessobrycon olayai Ardila Rodríguez, 2022a:8, figs. 1, 5B, 7B, 9B, 11C. Type locality: Colombia, Quebrada El Higueron, afluente del río Sinú, municipio de Tierralta Departameto de Córdoba. Holotype: CAR 960.
Distribution: 302 (Ardila Rodríguez, 2022a).
- Hyphessobrycon oritoensis*** García-Alzate, Román-Valencia, Taphorn, 2008
Hyphessobrycon oritoensis García-Alzate, Román-Valencia, Taphorn, 2008a:43, figs. 1–2. Type locality: Colombia, Putumayo, Orito, Quebrada La Palma, finca La Palma, Vereda Calimonte (...). Approximately 0°41'N, 75°52'W. Holotype: IUQ 1574.
Distribution: 316 (García-Alzate *et al.*, 2008a).
- Hyphessobrycon otrynus*** Benine, Lopes, 2008

Hyphessobrycon otrynus Benine, Lopes, 2008:62, figs. 1–4. Type locality: Venezuela, Portuguesa, río Portuguesa drainage, río Las Marias, at Quebrada Seca, approximately 45 min upstream by car from Highway 5, 22 km NNW Guanare. Holotype: USNM 349418.

Distribution: 307 (Benine, Lopes, 2008).

***Hyphessobrycon paepkei* Zarske, 2014**

Hyphessobrycon paepkei Zarske, 2014:152, figs. 11–14. Type locality: Brasilien, Umgebung von Manaus. [Aquarium trade origin, exact provenance uncertain]. Holotype: MTD F 33023.

Distribution: 316? (Zarske, 2014).

Remarks: Imprecise type locality.

***Hyphessobrycon panamensis* Durbin, 1908**

Hyphessobrycon panamensis Durbin, in Eigenmann, 1908:101. Type locality: “Panama” and “Boqueron River, Panama”. Lectotype: USNM 120416. [Designated by Ota *et al.*, 2020].

Hemigrammus minutus Meek, Hildebrand, 1912:67. Type locality: Rio Agua Clara, C.Z., Panama. Holotype: FMNH 7572 (missing). Synonymy corroborated by (Ota *et al.*, 2020).

Distribution: 209 (Ota *et al.*, 2020).

Remarks: See Weitzman, Palmer (1997a:227–229) and Bussing (1998:105–108) for miscellaneous observations on the species. Species redescribed by Ota *et al.*, 2020.

***Hyphessobrycon pando* Hein, 2009**

Hyphessobrycon pando Hein, 2009:2, figs. 3–5. Type locality: Bolivia, Departamento Pando, Rio Manuripi, near to Puerto Cardenas (11°20'083"S, 67°44.576"W). Holotype: ZFMK 41452.

Distribution: 318 (Hein, 2009).

***Hyphessobrycon parvellus* Ellis, 1911**

Hyphessobrycon parvellus Ellis, 1911:153, Pl. 2 (fig. 1). Type locality: Alagoinhas, rio Catú. [Brazil, Bahia, approximately 12°9'S, 38°25'W]. Holotype: FMNH 54392.

Distribution: 328 (Camelier, Zanata, 2014a).

Remarks: See comments on the species by Lima, Gerhard (2001:110–111), and a photo of a freshly preserved specimen in Dagosta *et al.* (2014:372, fig. 4).

***Hyphessobrycon paucilepis* García-Alzate, Román-Valencia, Taphorn, 2008**

Hyphessobrycon paucilepis García-Alzate, Román-Valencia, Taphorn, 2008b:149, figs. 7, 10A, 11A. Type locality: Venezuela, Los Quediches reservoir, overflow channel, Lara state. Holotype: IUQ 1897.

Distribution: 304 (García-Alzate *et al.*, 2014).

***Hyphessobrycon peruvianus* Ladiges, 1938**

Hyphessobrycon peruvianus Ladiges, in Arnold, 1938:646, fig. 10. Type locality: der peruanische Teil des Amazonenstromes zwischen Tabatinga und Iquitos angegeben. [Peru]. Lectotype: ZMH H60. [Designated by Ladiges *et al.*, 1958:157].

Distribution: 316 (Arnold, 1938).

Remarks: Taxonomic comments in Marinho *et al.* (2016a).

***Hyphessobrycon petricolus* Ohara, Lima, Barros, 2017**

Hyphessobrycon petricolus Ohara, Lima, Barros, 2017:243, figs. 1–3. Type locality:

- Brazil, Mato Grosso, Colniza, stream tributary to the rio Roosevelt, 9° 8'40"S, 60° 45'5"W. Holotype: MZUSP 120694.
Distribution: 321 (Ohara *et al.*, 2017).
- Hyphessobrycon peugeoti*** Ingenito, Lima, Buckup, 2013
Hyphessobrycon peugeoti Ingenito, Lima, Buckup, 2013:33, figs. 1–4. Type locality: Brazil, Mato Grosso State, Cotriguaçu, stream at fazenda São Nicolau, left margin tributary of rio Juruena, 09° 52'02.3"S, 58° 16'45.6"W. Holotype: MNRJ 38988.
Distribution: 320 (Ingenito *et al.*, 2013).
- Hyphessobrycon piabinhas*** Fowler, 1941
Hyphessobrycon piabinhas Fowler, 1941b:187, fig. 97. Type locality: Fortaleza, Ceará. [Fortaleza, Ceará State, Brazil]. Holotype: ANSP 69580.
Distribution: 326 (Fowler, 1941b).
- Hyphessobrycon pinnistriatus*** Carvalho, Cabeceira, Carvalho, 2017
Hyphessobrycon pinnistriatus Carvalho, Cabeceira, Carvalho, 2017:751, figs. 1–4. Type locality: Brazil, Mato Grosso State, Municipality of Novo Mundo, Parque Estadual Cristalino, igarapé affluent of Rio Cristalino, 09° 27'10.5"S, 55° 49'52.7"W, 806m a.s.l. Holotype: DZSJRP 20598.
Distribution: 320 (Carvalho *et al.*, 2017).
- Hyphessobrycon piorskii*** Guimarães, Brito, Feitosa, Carvalho–Costa, Ottoni, 2018
Hyphessobrycon piorskii Guimarães, Brito, Feitosa, Carvalho–Costa, Ottoni, 2018:86, figs. 1–5. Type locality: Brazil, Maranhão State, stream at the Anapurus municipality, 03° 40'14"S, 43° 07'10"W. Holotype: CICCAA 00695.
Distribution: 325 (Guimarães, Brito, Feitosa, Carvalho–Costa, Ottoni, 2018).
- Hyphessobrycon piranga*** Camelier, Dagosta, Marinho, 2018
Hyphessobrycon piranga Camelier, Dagosta, Marinho, 2018:1151 [3], figs. 1–3. Type locality: Brazil, Mato Grosso State, Municipality of Tangará da Serra, Rio Verde, a tributary of the Rio Papagaio, crossing the road at the Itaipú Farm, Rio Juruena drainage, upper Rio Tapajós basin, 14° 23'09"S, 58° 13'54"W. Holotype: MZUSP 117781.
Distribution: 320 (Camelier *et al.*, 2018).
- Hyphessobrycon platyodus*** Ohara, Abrahão, Espíndola, 2017
Hyphessobrycon platyodus Ohara, Abrahão, Espíndola, 2017:2, figs. 1–3. Type locality: Rio Juma, tributary of Rio Aripuanã, Rio Madeira basin, Apuí town, Amazonas, Brazil, nearby the bridge on road BR 230 between Santo Antônio do Matupi (Vila dos 180) and Apuí, 7° 12'43"S, 59° 55'18"W. Holotype: MZUSP 120555.
Distribution: 321 (Ohara, Abrahão, Espíndola, 2017).
- Hyphessobrycon poecilioides*** Eigenmann, 1913
Hyphessobrycon poecilioides Eigenmann, 1913:29. Type locality: Cali. [Colombia, Depto. Valle del Cauca, Río Cauca, ca. 3° 26'N, 76° 28'W]. Holotype: FMNH 56290.
Distribution: 302 (Maldonado–Ocampo *et al.*, 2005).
Remarks: See miscellaneous comments on the species by Maldonado–Ocampo *et al.* (2005:76) and ecological comments by García–Alzate, Román–Valencia (2008a).
- Hyphessobrycon procerus*** Mahnert, Géry, 1987
Hyphessobrycon procerus Mahnert, Géry, 1987:311, figs. 3–4. Type locality: Paraguay, dept. Caaguazu, Rio Guyrau–gua à Ltr. Juan M. Frutos. Holotype: MHNG

2385.68.

Distribution: 343 (Mahnert, Géry, 1987).

Hyphessobrycon procyon Pastana, Ohara, 2016

Hyphessobrycon procyon Pastana, Ohara, 2016:387, figs. 1–3. Type locality: Brazil, Amazonas, Apuí, rio Juma on road 230 between Vila dos 180 and Apuí, rio Aripuanã drainage, 7° 12'43"S, 59° 55'18"W. Holotype: MZUSP 118846.

Distribution: 321 (Pastana, Ohara, 2017).

Hyphessobrycon proteus Eigenmann, 1913

Hyphessobrycon proteus Eigenmann, 1913:28. Type locality: Quibdo. [Colombia, Depto. Chocó, Río Atrato (ca. 5° 41'N, 76° 40'W)]. Holotype: FMNH 56293.

Distribution: 302 (Eigenmann, 1918b; Dahl, 1971).

Remarks: Revalidated by Lima *et al.* (2003:139) from the synonymy of *H. inconstans*, but likely a synonym of the latter. See Eigenmann (1918b:199–202) for taxonomic remarks and Dahl (1971:139–140) for additional comments on the species (as *H. inconstans*).

Hyphessobrycon psittacus Dagosta, Marinho, Camelier, Lima, 2016

Hyphessobrycon psittacus Dagosta, Marinho, Camelier, Lima, 2016:250, figs. 1, 3. Type locality: Brazil, Mato Grosso State, Sapezal, Rio Papagaio, a tributary of the Rio Juruena, upper Rio Tapajós basin, 13° 33'41.7"S, 58° 24'26.9"W. Holotype: MZUSP 115550.

Distribution: 320 (Dagosta *et al.*, 2016).

Hyphessobrycon pulchripinnis Ahl, 1937

Hyphessobrycon pulchripinnis Ahl, 1937a:235. Type locality: (...) vermutlich Amazonas. ["probably Amazonas"]. Holotype: ZMB 20849 (male).

Hemigrammus erythrophthalmus Ladiges, 1931:249, fig. 5. Type locality: Amazon. No types known. This is most probably a *nomen oblitum*, but details are yet to be confirmed.

Distribution: 316, 320, 322 (Géry, 1980a; Bergleiter, 1999; Ohara *et al.*, 2017:204).

Remarks: See comments on the species by Géry (1980a), Zarske (2008a), and Ohara *et al.* (2017:204).

Hyphessobrycon pyrrhonotus Burgess, 1993

Hyphessobrycon pyrrhonotus Burgess, 1993:157, figures unnumbered on pages 156, 160. Type locality: Rio Erere, a tributary to the Rio Negro, Brazil. [Barcelos, Amazonas State, Brazil]. Holotype: MZUSP 45714.

Distribution: 314 (Burgess, 1993; Weitzman, Palmer, 1997a).

Hyphessobrycon pytai Géry, Mahnert, 1993

Hyphessobrycon pytai Géry, Mahnert, 1993:33, figs. 1, 2a–b, 3. Type locality: Paraguay, Caaguazu: petit affluent du Rio Güyraugua sur la route Asuncion–Cde del Este, près de Juan Frutos, bassin du Rio Monday (Parana). Holotype: MHNG 2543.86.

Distribution: 343 (Géry, Mahnert, 1993).

Hyphessobrycon quibdoensis Ardila Rodríguez, 2022

Hyphessobrycon quibdoensis Ardila Rodríguez, 2022a:13, figs. 2C, 6B, 8,12C. Type locality: Colombia, río Cabí, cuenca del río Atrato, Municipio de Quibdó, 43 msnm. Departamento del Chocó. Holotype: CAR 940.

Distribution: 301 (Ardila Rodríguez, 2022a).

Hyphessobrycon reticulatus Ellis, 1911

Hyphessobrycon reticulatus Ellis, 1911:153, Pl. 2 (fig. 2). Type locality: Campos. [Campos dos Goyatacazes, Rio de Janeiro State, Brazil]. Holotype: FMNH 54397.

Distribution: 329 (Ellis, 1911).

Remarks: *Hyphessobrycon reticulatus* is probably a junior synonym of *Hyphessobrycon boulengeri* (Carvalho, 2006). Here the distribution was restricted to the type locality.

Hyphessobrycon reya Ardila Rodríguez, 2022

Hyphessobrycon reya Ardila Rodríguez, 2022a:12, figs. 1, 6A, 7D, 10B, 12B.

Type locality: Colombia, Quebrada La Ruitoca, vereda del Valle de Ruitoque, Municipio de Floridablanca, Departamento de Santander. Holotype: CAR 910.

Distribution: 303 (Ardila Rodríguez, 2022a).

Hyphessobrycon rheophilus Ohara, Teixeira, Albornoz-Garzón, Mirande, Lima, 2019

Hyphessobrycon rheophilus Ohara, Teixeira, Albornoz-Garzón, Mirande, Lima, 2019:562, figs. 1–5. Type locality: Brazil, Mato Grosso, Aripuanã, Rio Aripuanã, rapids downstream Cachoeira de Dardanelos, 10°9'59"S, 59°27'2"W. Holotype: MZUSP 121508.

Distribution: 307,314, 321, (Ohara *et al.*, 2019).

Hyphessobrycon rosaceus Durbin, 1909

Hyphessobrycon rosaceus Durbin, 1909:67. Type locality: Gluck Island. [Guyana, Potaro-Siparuni, Essequibo River near Rockstone (5°59'N, 58°34'W)]. Holotype: FMNH 52791.

Hyphessobrycon ornatus Ahl, 1934a:238, figures. Type locality: Amazonstrom bei Para. Syntypes (8): ZMB 20781 (1), ZMB 20805 (7).

Distribution: 310, 311, 315, 316, 323 (Weitzman, Palmer, 1997a; FR Carvalho, pers. obs.).

Remarks: See comments on the species in Weitzman, Palmer (1997a:229–231).

Hyphessobrycon roseus (Géry, 1960)

Megalampodus roseus Géry, 1960f:26, Pl. 2 (fig. 3) figs. 10–11. Type locality: criques near Gaa Kaba, Maroni. [French Guiana]. Holotype: SMF 4784.

Distribution: 311, 315 (Planquette *et al.*, 1996; Mol, 2012).

Hyphessobrycon rutiliflavus Carvalho, Langeani, Miyazawa, Troy, 2008

Hyphessobrycon rutiliflavus Carvalho, Langeani, Miyazawa, Troy, 2008:40, figs. 1–3.

Type locality: Brazil, State of Mato Grosso, Cuiabá, córrego Pipa, (15°41'23.4"S, 55°29'48.8"W), rio Paraguai drainage, next to Serra de São Vicente. Holotype: DZSJRP 7444. [Andrade *et al.*, 2017:440].

Distribution: 343 (Carvalho *et al.*, 2008).

Hyphessobrycon saizi Géry, 1964

Hyphessobrycon saizi Géry, 1964c:46, fig. 11. Type locality: about 200 miles east of Bogota, Colombia (...) upper Rio Meta drainage. Holotype: USNM 198647.

Distribution: 307 (Géry, 1964c).

Hyphessobrycon santae (Eigenmann, 1907)

Hemigrammus santae Eigenmann, in Eigenmann, Ogle, 1907:16. Type locality: Lagoa Santa. [Brazil, Minas Gerais, Lagoa Santa (ca. 19°38'S, 43°53'W)]. Holotype:

USNM 55652.

Distribution: 327 (Eigenmann, 1907).

Hyphessobrycon sateremawe Faria, Bastos, Zuanon, Lima, 2020

Hyphessobrycon sateremawe Faria, Bastos, Zuanon, Lima, 2020:276, figs. 1–3. Type locality: Brazil, Amazonas, Nova Olinda do Norte, stream tributary to rio Abacaxis, Paraná do Urariá basin, 4° 17'5"S, 58° 34'44"W. Holotype: INPA 59494.

Distribution: 316 (Faria *et al.*, 2020).

Hyphessobrycon savagei Bussing, 1967

Hyphessobrycon savagei Bussing, 1967:215, fig. 2. Type locality: Puntarenas: Río Ceibo (260 m) at IH, 6 km W of Buenos Aires turnoff. [Costa Rica, a tributary of Río Grande de Térraba]. Holotype: LACM 9237-1.

Distribution: 206 (Bussing, 1998).

Remarks: See comments on the species by Bussing (1998:108–109). Species redescribed by Ota *et al.*, 2020).

Hyphessobrycon schauenseei Fowler, 1926

Hyphessobrycon schauenseei Fowler, 1926:254, fig. Type locality: Rio Inhangpy, Pará, Brazil. [Rio Inhangapi, a tributary of rio Guamá (approximately 1° 27'S, 47° 55'W)]. Holotype: ANSP 90878.

Distribution: 323.

Remarks: A putative junior synonym of *Hemigrammus bellottii*.

Hyphessobrycon scholzei Ahl, 1937

Hyphessobrycon scholzei Ahl, 1937b:445. Type locality: Amazonas bei Para. [type-specimens imported for the aquarium trade, type-locality questionable]. Lectotype: ZMB 20798. [Designated by Zarske, Géry, 1995].

Distribution: unknown

Remarks: Not mapped because of the uncertainty concerning its type locality.

Hyphessobrycon scutulatus Lucena, 2003

Hyphessobrycon scutulatus Lucena, 2003a:94, figs. 1–2. Type locality: Brazil, Mato Grosso: rio Kaiapá, MT 320 road, about 5 km from Nova Canaã do Norte, rio Teles Pires drainage, rio Tapajós system, 10° 36'16"S, 55° 42'26"W. Holotype: MCP 33333.

Distribution: 320 (Lucena, 2003a; Ohara *et al.*, 2017:205).

Hyphessobrycon simulatus (Géry, 1960)

Pseudopristella simulata Géry, 1960f:18, Pl. 2 (fig. 1), figs. 3–4. Type locality: Kourou River (coast). [French Guiana, ca. 5° 10'N, 52° 39'W]. Holotype: SMF 4786.

Distribution: 311, 315 (Planquette *et al.*, 1996; Mol, 2012).

Hyphessobrycon socolofi Weitzman, 1977

Hyphessobrycon socolofi Weitzman, 1977a:327, figs. 1–3. Type locality: Brazil, State of Amazonas, Rio Negro, Barcelos (0° 58'S, 62° 57'W). Holotype: MZUSP 13181.

Distribution: 314 (Weitzman, 1977a).

Hyphessobrycon sovichthys Schultz, 1944

Hyphessobrycon sovichthys Schultz, 1944:350, fig. 53. Type locality: Ciénaga del Guanavana, about 10 km. north of Sinamaica, Maracaibo Basin, Venezuela. Holotype: USNM 121534.

Distribution: 303, 304 (Garcia-Alzate *et al.*, 2008b).

Remarks: Redescribed by Garcia-Alzate *et al.* (2008b).

Hyphessobrycon stegemanni Géry, 1961

Hyphessobrycon stegemanni Géry, 1961c:7, figs. 1–5. Type locality: originally savannahs of northeastern Brazil, between the lower Rio Tocantins and the Rio Capim. [Lima, Géry (2001:96) restricted the type locality to “Brazil, Estado do Tocantins (the former northern portion of the estado de Goiás), município de Itacajá, between the rio Manoel Alves Pequeno and rio Vermelho, rio Tocantins basin, approx. 8° 19’S, 47° 25’W”]. Holotype: USNM 195942.

Distribution: 324 (Lima, Géry, 2001).

Remarks: See comments on the species in Marinho *et al.* (2014).

Hyphessobrycon sweglesi (Géry, 1961)

Megalampodus sweglesi Géry, 1961d:36, figs. d, 7–9. Type locality: surroundings of Leticia, Upper Amazon. [Géry (1966b:232) corrected the type locality to “Rio Muco, upper Orinoco basin”]. Holotype: USNM 196090.

Distribution: 307, 308, 314, 316, 321 (Géry, 1961d; Lima *et al.*, 2013).

Remarks: See comments on the species in Lima *et al.* (2013).

Hyphessobrycon taguae García-Alzate, Román-Valencia, Taphorn, 2010

Hyphessobrycon taguae García-Alzate, Román-Valencia, Taphorn, 2010b:37, figs. 4–5. Type locality: Colombia, Creek about two km from Puerto Leguizamo on road to La Tagua, Puerto Leguizamo, Putumayo (0° 10’15”S, 74° 46’23”W). Holotype: IUQ 2288.

Distribution: 316 (García-Alzate, Román-Valencia, Taphorn, 2010b).

Hyphessobrycon takasei Géry, 1964

Hyphessobrycon takasei Géry, 1964f:15, fig. 2. Type locality: Serra do Navio above Macapa, Amapa Territorio, lower Amazon basin. [Brazil]. Holotype: USNM 198138.

Distribution: 323 (Planquette *et al.*, 1996; Weitzman, Palmer, 1997a).

Remarks: See comments on the species by Planquette *et al.* (1996:290–291) and Weitzman, Palmer (1997a:235–236).

Hyphessobrycon taphorni García-Alzate, Román-Valencia, Ortega, 2013

Hyphessobrycon taphorni García-Alzate, Román-Valencia, Ortega, 2013:862, fig. 1–2. Type locality: Perú, aguajal pozo Paiche, Río Tambopata, cuenca del río Madre de Dios, 12° 29’4.2”S, 68° 57’9.09”W. Holotype: MUSM 42391.

Distribution: 318 (García-Alzate, Román-Valencia, Ortega, 2013).

Hyphessobrycon taurocephalus Ellis, 1911

Hyphessobrycon taurocephalus Ellis, 1911:151, Pl. 1 (fig. 4). Type locality: Serrinha Paraná, Rio Iguassú. [Rio Iguazu at Serrinha Paraná, Brazil]. Holotype: FMNH 54389.

Distribution: 346 (Ellis, 1911).

Remarks: Listed as threatened species (Duboc, Abilhoa, 2008). The absence of adipose fin in *Hyphessobrycon taurocephalus* is discussed in Lima, Gerhard (2001).

Hyphessobrycon tenuis Géry, 1964

Hyphessobrycon tenuis Géry, 1964b:10, figs. 8–9. Type locality: Petit ruisseau communiquer le “Zapote Cocha” avec le “Caño Yarina”, en bordure du Rio Pacaya, affluent du canal de Puinahua (bras du bas Rio Ucayali). [Small creek connecting “Zapote Cocha” and “Caño Yarina”, on edge of Río Pacaya, tributary

- of lower Río Ucayali, Peru]. Holotype: ZFMK 1327.
Distribution: 316 (Géry, 1964b).
- Hyphessobrycon togoi*** Miquelarena, López, 2006
Hyphessobrycon togoi Miquelarena, López, 2006:819, figs. 1–3. Type locality: Argentina, Buenos Aires Province, Chascomús lagoon (35°45'S, 58°30'W). Holotype: CFA-IC 11704. [Bogan *et al.*, 2019:14].
Distribution: 332, 334, 335, 345 (Miquelarena, López, 2006; Carvalho, 2011).
- Hyphessobrycon tortuguerae*** Böhlke, 1958
Hyphessobrycon tortuguerae Böhlke, 1958b:173, fig. 1. Type locality: Tortuguero River (Lagoon) at Tortuguero, 2 miles from ocean inlet, Costa Rica. Holotype: UF 5741.
Distribution: 205 (Bussing, 1998).
Remarks: See comments on the species by Bussing (1998:110–111).
- Hyphessobrycon troemneri*** (Fowler, 1942)
Cheirodon troemneri Fowler, 1942:1, fig. Type locality: An aquarium fish without locality, thought to have been obtained in Brazil]. Holotype: ANSP 70157 [missing]. [The holotype of *Cheirodon troemneri* is missing (Weitzman, Palmer, 1997a:233–234), the specimen previously in the jar of the holotype (and discussed by Weitzman, Palmer, 1997a) is, instead, a specimen of *Hemigrammus stictus* (Durbin) (Carvalho, Langeani, 2013), and has been recataloged as ANSP 210697 (M.Sabaj, pers. comm.)].
Distribution: 315, 316, 321, 323 (Lima *et al.*, 2013; FR Carvalho, pers. obs.).
Remarks: See Lima *et al.* (2013:242–243) and Carvalho (2011) for comments on the taxonomic status of the species.
- Hyphessobrycon tropis*** Géry, 1963
Hyphessobrycon tropis Géry, 1963e:57, fig. 5–6. Type locality: Tapurucuara, upper rio Negro. [Rio Negro at Tapurucuara (= Santa Isabel do Rio Negro), Amazonas, Brazil]. Holotype: USNM 198639.
Distribution: 314 (Géry, 1963e; MMF Marinho, pers. obs.).
- Hyphessobrycon tukunai*** Géry, 1965
Hyphessobrycon tukunai Géry, 1965a:25, Pl. 4 (fig. 12). Type locality: Igarapé Prêto, collatéral de l'Amazone supérieure pres de Belem, à environ 60 km en aval de Leticia. [Brazil, Amazonas, near Tabatinga (rio Solimões)]. Holotype: SMF 7209.
Distribution: 316.
- Hyphessobrycon tuyensis*** García-Alzate, Román-Valencia, Taphorn, 2008
Hyphessobrycon tuyensis García-Alzate, Román-Valencia, Taphorn, 2008b:151, figs. 9, 10B, 11B, 12. Type locality: Venezuela, río Capaya, río Tuy drainage, Miranda, 10°19'20"N, 66°15'12"W. Holotype: IUQ 1914.
Distribution: 304 (García-Alzate *et al.*, 2008b).
- Hyphessobrycon uaiso*** Carvalho, Langeani, 2013
Hyphessobrycon uaiso Carvalho, Langeani, 2013:526, figs. 1–3. Type locality: Brazil, Minas Gerais, Ponte Alta District, municipality of Uberaba, headwaters of rio Uberaba, near BR-262 road, 19°40'58.7"S, 47°40'7.3"W, 1020 m a.s.l. Holotype: DZSJRP 16460.
Distribution: 344 (Carvalho, Langeani, 2013).
- Hyphessobrycon vanzolinii*** Lima, Flausino, 2016

- Hyphessobrycon vanzolinii* Lima, Flausino, 2016:90, fig. 1. Type locality: Brazil, Pará, Itaituba, rio Tapajós, Cachoeira Lombo de Anta, near São Luís, ca. 4°28'S, 56°15'W. Holotype: MZUSP 119105.
Distribution: 315, 316 (Lima, Flausino, 2016; Ohara *et al.*, 2019).
- Hyphessobrycon veredus*** Teixeira, Dutra, Penido, Santos, Pessali, 2019
Hyphessobrycon veredus Teixeira, Dutra, Penido, Santos, Pessali, 2019:2, figs. 1–8.
Type locality: Brazil, Minas Gerais, Bocaiuva municipality, Vereda Água Boa, tributary of Rio Tabatinga, Rio Jequitinhonha basin, 17°12'37.75"S, 43°37'6.82"W. Holotype: MZUSP 124770.
Distribution: 328 (Teixeira *et al.*, 2019).
- Hyphessobrycon vilmae*** Géry, 1966
Hyphessobrycon vilmae Géry, 1966d:64, fig. 1–2. Type locality: In the upper Arinos-Juruena basin, Brazil. Holotype: MHNG 2229.04.
Distribution: 320, 321*, 322*, 343 (Géry, 1966d; Lima *et al.*, 2007; MMF Marinho, pers. obs..)
- Hyphessobrycon vinaceus*** Bertaco, Malabarba, Dergam, 2007
Hyphessobrycon vinaceus Bertaco, Malabarba, Dergam, 2007:246, figs. 1–2. Type locality: Brazil, Minas Gerais, São João do Paraíso, rio São João, tributary of the upper rio Pardo, 15°09'50"S 42°09'45"W. Holotype: MCP 40916.
Distribution: 328 (Bertaco, Malabarba, Dergam, 2007).
- Hyphessobrycon wadai*** Marinho, Dagosta, Camelier, Oyakawa, 2016
Hyphessobrycon wadai Marinho, Dagosta, Camelier, Oyakawa, 2016b:511, figs. 1–3. Type locality: Brazil, Mato Grosso State, Campo Novo do Parecis, upper Rio Tapajós basin, Rio Juruena drainage, tributary of Rio do Sangue at bridge; 13°45'S, 57°31'W. Holotype: MZUSP 117127.
Distribution: 320 (Marinho *et al.*, 2016b).
- Hyphessobrycon wajat*** Almirón, Casciotta, 1999
Hyphessobrycon wajat Almirón, Casciotta, 1999:340, figs. 1–4. Type locality: Argentina, Corrientes province, Laguna Brava (27°33'S, 58°44'W). Holotype: MLP 9321.
Distribution: 332 (Almirón, Casciotta, 1999).
- Hyphessobrycon weitzmanorum*** Lima, Moreira, 2003
Hyphessobrycon weitzmanorum Lima, Moreira, 2003:27, figs. 9–11. Type locality: Brazil, Mato Grosso, município de Alto Araguaia, ribeirão do Sapo, km 464.04 of Ferronorte railroad, 17°31'11"S, 53°15'33"W. Holotype: MZUSP 73315.
Distribution: 324 (Lima, Moreira, 2003).
- Hyphessobrycon weneri*** Géry, Uj, 1987
Hyphessobrycon weneri Géry, Uj, 1987b:546, figures unnumbered on pages 546, 549, 550. Type locality: Estado do Para, Brasilien, Einzugsgebiet des Rio Guama, Waldbach zwischen Santa Maria do Para und Sao Miguel do Guama, etwa 120 Kilometer von Belem (Para) auf der Straße BR 010. [Brazil]. Holotype: MZUSP 42365.
Distribution: 323 (Géry, Uj, 1987b).
- Hyphessobrycon wosiackii*** Moreira, Lima, 2017
Hyphessobrycon wosiackii Moreira, Lima, 2017a:130, fig. 5. Type locality: Brazil, Pará, Juruti, headwaters of the Igarapé Juruti Grande (a tributary of Rio Amazonas),

2°34'36"S, 56°24'3"W. Holotype: MPEG 34741.

Distribution: 316 (Moreira, Lima, 2017a).

Hyphessobrycon zoe Faria, Lima, Wosiacki, 2020

Hyphessobrycon zoe Faria, Lima, Wosiacki, 2020:369, figs. 1–2. Type locality: Brazil, Pará, Óbidos, Estação Ecológica Grão Pará Centro, stream tributary of Rio Urucuriana, Rio Paru do Oeste basin, 0°38'10"N, 55°43'24"W. Holotype: MPEG 38859.

Distribution: 315 (Faria *et al.*, 2020).

Species inquirendae (Hyphessobrycon)

Aphyocarax heteresthes Ulrey, 1894:612. Type locality: Brazil. Syntypes (5): CAS 76377 (4), SU 2161 (1).

Remarks: Placement of the species in *Hyphessobrycon* follows Weitzman, Palmer (1998). Type specimens are juveniles (12.0–17.7mm SL) and are in poor condition and do not allow for a precise identification of the species (FR Carvalho, pers. obs.).

Hemigrammus robustulus Cope, 1870:561. Type locality: Pebas, Equador. [Type locality currently at Peru, depto. Loreto, Río Ampyiacu (a tributary of Río Amazonas) (approximately 3°19'S, 71°52'W)]. Lectotype: ANSP 8037. [Designated by Fowler (1906:335, fig. 24. Treated as holotype in Böhlke (1984:53) and Lima *et al.* (2003:139)].

Remarks: Only known from the type series. Identity of the species is uncertain.

Hyphessobrycon melasemeion Fowler, 1945d:57, figure. Type locality: Locality unknown (supposed to be lower Amazon?). Holotype: ANSP 71584.

Remarks: Species only known from the holotype, an aquarium specimen without locality data. Weitzman, Palmer (1997a:234) considered it to be probably a synonym of *Hyphessobrycon bentosi*.

Hyphessobrycon stramineus Durbin, in Eigenmann, 1918b:190. Type locality: Tabatinga. [Brazil, Amazonas, near Tabatinga (rio Solimões), ca. 4°14'S, 69°57'W]. Holotype: MCZ 20772.

Remarks: Species only known from the holotype, which is in poor state of conservation (FR Carvalho, pers. obs.).

HYSTERONOTUS Eigenmann, 1911

NA Menezes, P Camelier

Hysteronotus Eigenmann, 1911c:171. Type species: *Hysteronotus megalostomus* Eigenmann, 1911. Type by original designation. Gender: Masculine.

Hysteronotus megalostomus Eigenmann, 1911

Hysteronotus megalostomus Eigenmann, 1911c:171, Pl. 6 (fig. 1). Type locality: Rio das Velhas. [State of Minas Gerais, Brazil]. Holotype: FMNH 54889.

Distribution: 327 (Eigenmann, 1911c; Weitzman, 2003; Menezes *et al.*, 2016).

INPAICHTHYS Géry, Junk, 1977

P Camelier

Inpaichthys Géry, Junk, 1977:417. Type species: *Inpaichthys kerri* Géry, Junk, 1977. Type by original designation. Gender: Masculine.

Inpaichthys kerri Géry, Junk, 1977

Inpaichthys kerri Géry, Junk, 1977:418, figs. 1–3, 5. Type locality: Igarapé pertencente ao sistema do igarapé Queimada (atualmente igarapé do Aeroporto), cerca de duas horas da Cidade de Humboldt (Núcleo Aripuanã), na futura estrada para Juruena, alto rio Aripuanã. [Humboldt was a research center, known as “Scientific city”, located in Aripuanã, Mato Grosso, Brazil]. Holotype: INPA 10408. Distribution: 320*, 321 (Géry, Junk, 1977; (P. Camelier, pers. obs.).

IOTABRYCON Roberts, 1973

NA Menezes, P Camelier

Iotabrycon Roberts, 1973:491. Type species: *lotabrycon praecox* Roberts, 1973. Type by original designation. Gender: Masculine.

Iotabrycon praecox Roberts, 1973

Iotabrycon praecox Roberts, 1973:492, figs. 1–4. Type locality: Isolated dry seasonal pool in Río Nuevo where it flows into left side of Río Vincés, one kilometer upstream from the town of Vincés. [Ecuador]. Holotype: MCZ 48658. Distribution: 301 (Roberts, 1973; Weitzman, 2003).

JUPIABA Zanata, 1997

AM Zanata

Jupiaba Zanata, 1997:102. Type species: *Jupiaba poranga* Zanata, 1997. Type by original designation. Gender: Feminine.

Jupiaba abramoides (Eigenmann, 1909)

Astyanax abramoides Eigenmann, 1909a:21. Type locality: Tumatumari, Potaro River, British Guiana. [Guyana]. Holotype: FMNH 52863. Distribution: 308, 309, 310, 311 (Planquette *et al.*, 1996; Zanata, 1997).

Jupiaba acanthogaster (Eigenmann, 1911)

Deuterodon acanthogaster Eigenmann, 1911c:179, Pl. 8 (fig. 3). Type locality: Corumbá. [Brazil]. Holotype: FMNH 54748. Distribution: 320, 322, 324, 344 (Zanata, 1997; Ribeiro *et al.*, 2013).

Jupiaba ajuricaba (Marinho, Lima, 2009)

Astyanax ajuricaba Marinho, Lima, 2009:170, figs. 1–2. Type locality: Brazil, Amazonas State, stream tributary to rio Tiquié, Serra do Mucura village, 0°10'07"N, 69°07'46"W. Holotype: MZUSP 100231. Distribution: 314, 316, 320 (Marinho, Lima, 2009). Remarks: Placed in *Jupiaba* by Terán *et al.* (2020:8).

Jupiaba anterior (Eigenmann, 1908)

Astyanax anterior Eigenmann, 1908:95. Type locality: Tabatinga. [Brazil]. Lectotype: MCZ 89556. [Designated by Eigenmann (1921:247)]. Distribution: 316 (Eigenmann, 1908). Remarks: Placed in *Jupiaba* by Terán *et al.* (2020:8).

Jupiaba anteroides (Géry, 1965)

Astyanax (Poecilurichthys) anteroides Géry, 1965a:16, Pl. 1 (figs. 3–4). Type locality: Igarapé Prêto, collâteral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7255.

Distribution: 316 (Zanata, 1997).

Jupiaba apenima Zanata, 1997

Jupiaba apenima Zanata, 1997:108, fig. 7. Type locality: Cachimbo, Rio Peixoto de Azevedo, Mato Grosso, Brasil. [Brazil]. Holotype: MZUSP 48458.

Distribution: 320, 324 (Zanata, 1997).

Jupiaba asymmetrica (Eigenmann, 1908)

Astyanax asymmetricus Eigenmann, 1908:94. Type locality: Tabatinga. [Brazil]. Syntypes: MCZ 20763 (2), 20766 (1).

Astyanax asymmetricus colombiensis Fowler, 1945c:97, fig. 2. Type locality: Morelia, Rio Caquetá drainage, Colombia. Holotype: ANSP 71672. Questionably a synonym of *Jupiaba asymmetrica*. Based on data from the original description of *Astyanax asymmetricus colombiensis* a few features seem to be similar of those presented by *J. asymmetrica*. However, it is not clear if *Astyanax asymmetricus colombiensis* has the pelvic spine characteristic of *Jupiaba* species.

Distribution: 316 (Zanata, 1997).

Jupiaba atypindi Zanata, 1997

Jupiaba atypindi Zanata, 1997:111, fig. 8. Type locality: Igarapé Jaramacaru, afluente do rio Cuminá, Pará, Brasil. [Brazil]. Holotype: MZUSP 17809.

Distribution: 314 (Zanata, 1997).

Jupiaba citrina Zanata, Ohara, 2009

Jupiaba citrina Zanata, Ohara, 2009:514, figs. 1–3. Type locality: Brazil, Amazonas, Apuí, rio Madeira basin, middle rio Aripuanã drainage, igarapé on the left margin of the rio Guariba, Reserva Extrativista do Guariba, Mosaico do Apuí, 8°46'31.0"S, 60°31'27.7"W. Holotype: INPA 32026.

Distribution: 321 (Zanata, Ohara, 2009).

Jupiaba elassonaktis Pereira, Lucinda, 2007

Jupiaba elassonaktis Pereira, Lucinda, 2007:54, figs. 1–2. Type locality: Peixe, rio Tocantins downstream UHE Peixe-Angical, approximately 12°15'S, 48°23'W, Tocantins, Brazil. Holotype: MCP 41465.

Distribution: 324 (Pereira, Lucinda, 2007).

Jupiaba essequibensis (Eigenmann, 1909)

Astyanax essequibensis Eigenmann, 1909a:17. Type locality: Tumatumari, Potaro River, British Guiana. [Guyana]. Holotype: FMNH 53519.

Distribution: 310 (Zanata, 1997).

Jupiaba iasy Netto-Ferreira, Zanata, Birindelli, Sousa, 2009

Jupiaba iasy Netto-Ferreira, Zanata, Birindelli, Sousa, 2009:54, figs. 1–3. Type locality: Brazil, Mato Grosso, Paranaíta, sandy beach on the left riverbank of rio Teles Pires downstream of the Sete Quedas rapids, 09°20'38"S, 56°46'42"W. Holotype: MZUSP 100854.

Distribution: 320, 321 (Netto-Ferreira *et al.*, 2009).

Jupiaba keithi (Géry, Planquette, Le Bail, 1996)

Astyanax keithi Géry, Planquette, Le Bail, 1996:26, fig. 10, Pl. 1c. Type locality:

Maroni, Crique Balaté, Guyane. [French Guiana]. Holotype: MNHN 1995-1087.

Distribution: 311 (Géry *et al.*, 1996).

Jupiaba kurua Birindelli, Zanata, Sousa, Netto-Ferreira, 2009

Jupiaba kurua Birindelli, Zanata, Sousa, Netto-Ferreira, 2009:12, figs. 1–3. Type locality: Brazil, Pará, Altamira, rio Curuá, rio Iriri drainage, in cofferdam of PCH (= small hydroelectric dam) Buriti, 8°46'09"S, 54°57'02"W. Holotype: MZUSP 98000.

Distribution: 322 (Birindelli *et al.*, 2009).

Jupiaba maroniensis (Géry, Planquette, Le Bail, 1996)

Astyanax maroniensis Géry, Planquette, Le Bail, 1996:17, fig. 7, Pl. 2a. Type locality: Antecume Pata, village indien au confluent du Litani et du Marouini, formateurs du Maroni. [French Guiana]. Holotype: MNHN 1995-1091.

Distribution: 311 (Géry *et al.*, 1996).

Jupiaba meunieri (Géry, Planquette, Le Bail, 1996)

Astyanax meunieri Géry, Planquette, Le Bail, 1996:21, Pl. 2b. Type locality: Approuague, Rivière Arataye au Saut Japigny, Guyane. [French Guiana]. Holotype: MNHN 1995-1086.

Distribution: 311, 315 (Géry *et al.*, 1996).

Jupiaba minor (Travassos, 1964)

Deuterodon minor Travassos, 1964:539, figs. 1–4. Type locality: Rio Cachimbo, Cachimbo, Aeroporto da FAB, abaixo do Salto, Estado do Pará, 9°22'S, 54°5'W. [Brazil]. Holotype: MNRJ 9172.

Distribution: 320 (Zanata, 1997).

Jupiaba mucronata (Eigenmann, 1909)

Astyanax mucronatus Eigenmann, 1909a:19. Type locality: Tumatumari, above fall, British Guiana. [Guyana]. Holotype: FMNH 53520.

Salmo notatus Linnaeus, 1766:513. Type locality: Surinami. [Suriname]. No types known. According to Fricke *et al.*, 2022, name was not used as valid after 1899. However, reversal of priority in favor of *Astyanax mucronatus* Eigenmann, 1909 should be examined in more detail.

Distribution: 310 (Zanata, 1997).

Jupiaba ocellata (Géry, Planquette, Le Bail, 1996)

Astyanax ocellatus Géry, Planquette, Le Bail, 1996:12, fig. 6, Pl. 1a-b. Type locality: Oyapock entre Saut Maripa et Camopi, Guyane. [Guyana]. Holotype: MNHN 1995-1090.

Distribution: 311, 315 (Géry *et al.*, 1996).

Jupiaba paranatinga Netto-Ferreira, Zanata, Birindelli, Sousa, 2009

Jupiaba paranatinga Netto-Ferreira, Zanata, Birindelli, Sousa, 2009:59, figs. 5–6. Type locality: Brazil, Mato Grosso, Paranaíta, rio Teles Pires, Tapajós drainage, near the ferryboat at the road MT-416, 09°27'07"S, 56°30'46"W. Holotype: MZUSP 100855.

Distribution: 320 (Netto-Ferreira *et al.*, 2009).

Jupiaba pinnata (Eigenmann, 1909)

Deuterodon pinnatus Eigenmann, 1909a:25. Type locality: Amatuk, Lower Potaro River, British Guiana. [Guyana]. Holotype: FMNH 53525.

Distribution: 310 (Zanata, 1997).

Jupiaba pirana Zanata, 1997

Jupiaba pirana Zanata, 1997:114, fig. 9. Type locality: Igarapé Pimenta, Rio Tapajós, Parque Nacional da Amazônia, Pará, Brasil. [Brazil]. Holotype: MZUSP 25389.

Distribution: 320 (Zanata, 1997).

Jupiaba poekotero Zanata, Lima, 2005

Jupiaba poekotero Zanata, Lima, 2005:272, figs. 1–2. Type locality: Brazil, Amazonas, Rio Tiquié, Indian village of Caruru, beaches in pool below Cachoeira do Caruru, 00°16'28.9"N, 69°54'53.6"W. Holotype: MZUSP 83460.

Distribution: 314 (Zanata, Lima, 2005).

Jupiaba polylepis (Günther, 1864)

Tetragonopterus polylepis Günther, 1864:320. Type locality: British Guiana. [Guyana]. Holotype: BMNH 1845.3.5.33.

Distribution: 310, 311, 315, 320, 322, 324, 325, (Zanata, 1997).

Jupiaba poranga Zanata, 1997

Jupiaba poranga Zanata, 1997:115, fig. 10. Type locality: Rio Arinos, riacho Monjolinho, Diamantino, Mato Grosso, Brasil. [Brazil]. Holotype: MZUSP 45324.

Distribution: 320 (Zanata, 1997).

Jupiaba potaroensis (Eigenmann, 1909)

Astyanax potaroensis Eigenmann, 1909a:22. Type locality: Amatuk Cataract, Pororo River, British Guiana. [Guyana]. Holotype: FMNH 52695.

Distribution: 310 (Zanata, 1997).

Jupiaba scologaster (Weitzman, Vari, 1986)

Astyanax scologaster Weitzman, Vari, 1986:709, figs. 1, 3. Type locality: Venezuela, Territorio Federal Amazonas, Departamento Río Negro, lower portion of Caño Manu, which drains into the Río Casiquiare about 250 m upstream of Solano (approx. 2°00'N, 66°57'W). Holotype: MBUCV-V-15249.

Distribution: 308, 314 (Zanata, 1997).

Jupiaba yarina Zanata, 1997

Jupiaba yarina Zanata, 1997:119, fig. 11. Type locality: Rio Arinos, riacho Monjolinho, Mato Grosso, Brasil. [Brazil]. Holotype: MZUSP 45323.

Distribution: 320 (Zanata, 1997).

Jupiaba zonata (Eigenmann, 1908)

Astyanax zonatus Eigenmann, 1908:95. Type locality: Tabatinga. [Brazil]. Lectotype: MCZ 89560 [Information about type requires further research].

Distribution: 314, 316 (Zanata, 1997).

KNODUS Eigenmann, 1911

KM Ferreira

Knodus Eigenmann, 1911b:216. Type species: *Knodus meridae* Eigenmann, 1911. Type by monotypy. Gender: Masculine. Additional comments: Also appeared as new genus in Eigenmann, 1918b:114 with type given as *Bryconamericus breviceps* Eigenmann (date of publication and type species was later clarified by Eigenmann, Myers, 1929:526).

Bryconadenos Weitzman, Menezes, Evers, Burns, 2005:334. Type species:

Bryconadenos tanaothoros Weitzman, Menezes, Evers, Burns, 2005. Type by original designation. Gender: Masculine. Additional comments: Considered a synonym of *Knodus* Eigenmann, 1911 by Thomaz *et al.*, 2015:20, considered a valid genus considered sister-taxon of *Phallobrycon* within the tribe Diapomini by Ferreira *et al.*, 2021.

Knodus alpha (Eigenmann, 1914)

Bryconamericus alpha Eigenmann, in Eigenmann, Henn, Wilson, 1914:7. Type locality: Villavicencio, Oriente, Colombia (cf). [Río Meta basin, Departamento Meta, Colombia]. Holotype: FMNH 56646.

Bryconamericus beta Eigenmann, in Eigenmann, Henn, Wilson, 1914:7. Type locality: Villavicencio. [Río Meta basin, Departamento Meta, Colombia]. Holotype: FMNH 56648.

Distribution: 307 (Eigenmann, 1914).

Remarks: Generic assignment based on Thomaz *et al.* (2015). Román-Valencia, 2003a:37 formally proposed synonymy and thus acted as first reviser in giving precedence to *B. alpha* over *B. beta*. He also mentioned that Eigenmann, 1914:7 had previously suggested that *B. beta* could be a synonym of *B. alpha*.

Knodus angustus Menezes, Ferreira, Netto-Ferreira, 2020

Knodus angustus Menezes, Ferreira, Netto-Ferreira, 2020:4, figs. 1–5. Type locality: Brazil, Amazonas, Apuí, Prainha Nova beach in rio Aripuanã at end of road BR-174, 7° 13'49.15"S, 60° 39'3.56"W. Holotype: MZUSP 122222.

Distribution: 321 (Menezes *et al.*, 2020).

Knodus borki Zarske, 2008

Knodus borki Zarske, 2008c:160, figs. 2–3. Type locality: Peru, Umgebung von Iquitos. Holotype: MTD F 31357.

Distribution: 312 (Zarske, 2008c).

Knodus breviceps (Eigenmann, 1908)

Bryconamericus breviceps Eigenmann, 1908:105. Type locality: Goyaz. [Brazil]. Syntypes (20): MCZ 20692 (20), USNM 120274 (4).

Distribution: 324 (Ferreira, 2007).

Remarks: Possibly a synonym of *K. chapadae*.

Knodus caquetae Fowler, 1945

Knodus caquetae Fowler, 1945c:94, fig. 1. Type locality: Morelia, Rio Caquetá drainage, Colombia. Holotype: ANSP 71670. [caudal fin damaged].

Distribution: 312a, 317a (Ferreira, 2007).

Knodus chapadae (Fowler, 1906)

Astyanax chapadae Fowler, 1906:349, fig. 33. Type locality: Near Santa Anna da Chapada, in Matto Grosso, Brazil, from the headwaters of the Paraguay. [Brazil]. Holotype: ANSP 21828. [caudal fin damaged].

Distribution: 324a, 343a (Ferreira, 2007).

Remarks: According to M. Sabaj (pers. comm.), Henry Fowler originally accessioned ANSP 21828 as “*T. caudimaculatus* [= *caudomaculatus*] Gthr.” with locality data as “Piraputanga [= Pirapitanga] R., near Chapada.” If ANSP 21828 pertains to the *Tetragonopterus caudimaculatus* of Cope (1894:107), then according to Cope’s account, the specimen was obtained from nearby headwaters of the Tocantins

River (not the Paraguay River).

Knodus cinarukoense (Román-Valencia, Taphorn, Ruiz-C., 2008)

Bryconamericus cinarukoense Román-Valencia, Taphorn, Ruiz-C., 2008:19, fig. 1.
Type locality: Venezuela, Orinoco River basin, Cinaruco River, Apure State, Pedro Camejo County, sand beach, 6° 32'55"N, 67° 24'58"W. Holotype: MCNG 52002.

Distribution: 307, 309 (Román-Valencia *et al.*, 2008).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Knodus cismontanus (Eigenmann, 1914)

Bryconamericus cismontanus Eigenmann, in Eigenmann, Henn, Wilson, 1914:4. Type locality: Villavicencio (cf). [Río Meta basin, Departamento Meta, Colombia]. Holotype: FMNH 56642.

Distribution: 307, 308, 309 (Eigenmann, 1914).

Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015); placed in *Knodus* by García-Melo *et al.*, 2019:10.

Knodus cupariensis de Sousa, Silva-Oliveira, Canto, Ribeiro, 2020

Knodus cupariensis de Sousa, Silva-Oliveira, Canto, Ribeiro, 2020:576, figs. 1–4.
Type locality: Brazil, Pará State, Rurópolis, unnamed stream tributary of rio Tinga, rio Cupari drainage, rio Tapajós basin, 4° 05'10.80"S, 54° 51'10.60"W. Holotype: INPA 59396.

Distribution: 316 (Sousa *et al.*, 2020).

Knodus delta Géry, 1972

Knodus delta Géry, 1972b:56, Pl. 3 (fig. 2). Type locality: ruisseau près de Puerto Napo, haut rio Napo. [Ecuador]. Holotype: ZMH 1473.

Distribution: 312 (Géry, 1972b, Ferreira, 2007).

Knodus deuterodonoides (Eigenmann, 1914)

Bryconamericus deuterodonoides Eigenmann, in Eigenmann, Henn, Wilson, 1914:5. Type locality: Rio Negro, Quebrada at Villavicencio. [Río Meta basin, Departamento Meta, Colombia]. Holotype: FMNH 56644.

Bryconamericus deuterodonoides euryodous Schultz, 1944:344, fig. 51. Type locality: Río Guárico and tributaries between San Sebastián and San Casimiro, Estado de Aragua, Venezuela. Holotype: USNM 121437.

Bryconamericus deuterodonoides caudovittatus Inger, 1956:435. Type locality: Rio Abácapa on the west side of Chimantá-tepui. [Depto. Bolivar, Río Caroni basin, Venezuela]. Holotype: FMNH 45706. Synonymy with *Bryconamericus deuterodonoides* is uncertain; it could be a valid species.

Distribution: 303, 305, 306, 307 (Eigenmann, 1914).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Knodus diaphanus (Cope, 1878)

Tetragonopterus diaphanus Cope, 1878:691. Type locality: Río Huallaga em Moyabamba, Peru. Lectotype: ANSP 21216. [Designated by Fowler (1906:339, fig 27)].

Distribution: 316 (Cope, 1878).

Remarks: Placed in *Knodus* by García-Melo *et al.*, 2019:10.

Knodus dorsomaculatus Ferreira, Netto-Ferreira, 2010

Knodus dorsomaculatus Ferreira, Netto-Ferreira, 2010:470, figs. 1–2. Type locality:

- Brazil, Pará, Jacareacanga, tributary of the Teles Pires River, Tapajós Basin, 09°18'30"S, 56°47'38"W. Holotype: MZUSP 102823.
Distribution: 320 (Ferreira, Netto-Ferreira, 2010).
- Knodus figueiredoi*** Esguícero, Castro, 2014
Knodus figueiredoi Esguícero, Castro, 2014:40, figs. 1–4. Type locality: Brazil: Mato Grosso State: Guiratinga Municipality: Rio das Garças, tributary of Rio Araguaia, 16°13'11"S, 53°35'59"W. LIRP 10238.
Distribution: 324 (Esguícero, Castro, 2014).
- Knodus gamma*** Géry, 1972
Knodus gamma Géry, 1972b:52, Pl. 2 (fig. 3). Type locality: rio Villano, affluent du rio Cururay. [Ecuador]. Holotype: ZMH 1861.
Distribution: 312 (Géry, 1972b; Ferreira, 2007).
- Knodus geryi*** Lima, Britski, Machado, 2004
Knodus geryi Lima *et al.*, 2004:577, figs. 1–2. Type locality: Brazil, Mato Grosso, Barra dos Bugres, rio do Peixe, tributary of rio Cabaçal, fazenda Entre Rios, at the bridge, 14°55'0"S, 58°27'24"W. Holotype: MZUSP 83354.
Distribution: 343 (Lima *et al.*, 2004).
- Knodus guajajara*** Aguiar, Guimarães, Brito, Santos, Kartz, Dias, Carvalho-Costa, Ottoni, 2022
Knodus guajajara Aguiar, Guimarães, Brito, Santos, Kartz, Dias, Carvalho-Costa, Ottoni, 2022:7, figs. 1–3. Type locality: Alto Alegre do Pindaré municipality, Igarapé Arapapá, Pindaré River drainage, Mearim River basin, 03°42'26"S, 46°00'25"W. [Brazil]. Holotype: CICC AA 4883.
Distribution: 323, 325 (Aguiar *et al.*, 2022).
- Knodus heteresthes*** (Eigenmann, 1908)
Bryconamericus heteresthes Eigenmann, 1908:105. Type locality: Tapajos. [Brazil]. Syntypes (40): MCZ 89966 (34), USNM 120247 (6).
Bryconamericus ternetzi Myers, 1928:89. Type locality: Camanáos, Rapids, Rio Negro, Brazil. Holotype: CAS 44216.
Distribution: 316a (Ferreira, 2007).
- Knodus longus*** Zarske, Géry, 2006
Knodus longus Zarske, Géry, 2006b:52, figs. 1–2. Type locality: río Warinilla (oder Harinilla) nahe Choiro, Höhe 1400 m, oberes Einzugsgebiet des río Beni, Bolivien. [Bolivia]. Holotype: MTD F 28853.
Distribution: 318 (Zarske, Géry, 2006b).
- Knodus macarenae*** (Román-Valencia, García-Alzate, Ruiz-C., Taphorn, 2010)
Bryconamericus macarenae Román-Valencia, García-Alzate, Ruiz-C., Taphorn, 2010b:197, figs. 1–2. Type locality: Colombia, Departamento Meta, Vista Hermosa, La Palestina village, Orinoco River Basin, Blanco River drainage, Pringamosal Creek, 500 m from La Palestina School, 3°03'15"N, 73°49'54"W, 282 m a.s.l. Holotype: IUQ 2448.
Distribution: 306 (Román-Valencia *et al.*, 2010b).
Remarks: Possibly related to *Eretmobrycon*, *Hemibrycon* or *Knodus* (Thomaz *et al.*, 2015); placed in *Knodus* by García-Melo *et al.*, 2019:10.
- Knodus megalops*** Myers, 1929
Knodus megalops Myers, in Eigenmann, Myers, 1929:527. Type locality: Rio Pichis, Puerto Bermudez, Peru. Holotype: CAS 61845.

Distribution: 312a (Ferreira, 2007).

Knodus meridae Eigenmann, 1911

Knodus meridae Eigenmann, 1911b:216. Type locality: Merida, Venezuela. Holotype: BMNH 1908.5.29.148.

Distribution: 307a, 308a (Ferreira, 2007).

Knodus mizquae (Fowler, 1943)

Astyanax mizquae Fowler, 1943c:4, fig. 3. Type locality: Ele Ele, 5000 feet elevation, Rio Mizque, Department of Cochabamba, Bolivia. Holotype: ANSP 69176.

Distribution: 312, 318 (Ferreira, 2007).

Knodus moenkhausii (Eigenmann, Kennedy, 1903)

Poecilurichthys moenkhausii Eigenmann, Kennedy, 1903:522. Type locality: A brook near Arroyo Trementina. [Paraguay]. Holotype: CAS 55102. [specimen in poor condition].

Distribution: 343a (Ferreira, 2007).

Knodus nuptialis Menezes, Marinho, 2019

Knodus nuptialis Menezes, Marinho, 2019:3, figs. 1–8. Type locality: Brazil, Pará, Altamira, Rio 13 de Maio at Small Hydroelectric Central Salto do Três de Maio, tributary of Rio Curuá, Rio Xingu basin, 8°44'59"S, 55°1'58.8"W. Holotype: MZUSP 124829.

Distribution: 322 (Menezes, Marinho, 2019).

Knodus obolus Deprá, Ota, Vitorino Júnior, Ferreira, 2021

Knodus obolus Deprá, Ota, Vitorino Júnior, Ferreira, 2021:14, figs. 6–8. Type locality: Brazil, Goiás State, Municipality of Pirenópolis, ribeirão Dois Irmãos, tributary to the rio do Peixe, tributary to the rio das Almas, tributary to the rio Maranhão, tributary to the rio Tocantins, 15°42'50"S, 49°2'39"W. Holotype: NUP 22667.

Distribution: 324 (Deprá *et al.*, 2021).

Knodus ortegusae (Fowler, 1943)

Bryconamericus ortegusae Fowler, 1943d:241, fig. 19. Type locality: Florencia, Rio Ortega, Colombia. Holotype: ANSP 70504.

Knodus victoriae septentrionalis Géry, 1972b:49, Pl. 2 (fig. 1). Type locality: Rio Capotazo, affluent du haut rio Pastaza. [Ecuador]. Holotype: ZMH 2261. Considered a junior synonym of *Knodus ortegusae* by Ferreira (2007).

Distribution: 313 (Fowler, 1943d; Ferreira, 2007).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Knodus pasco Zarske, 2007

Knodus pasco Zarske, 2007:16, figs. 1–3. Type locality: Peru, Departamento Pasco, erste Quebrada bei San Antonio de Cacazú (eigentlich nach dem Vorort Baja Cacazú) auf der Straße nach Puerto Bermúdez. Holotype: MTD F 30634.

Distribution: 312 (Zarske, 2007).

Knodus rufford Deprá, Ota, Vitorino Júnior, Ferreira, 2021

Knodus rufford Deprá, Ota, Vitorino Júnior, Ferreira, 2021:6, figs. 2–4. Type locality: Brazil, Goiás State, Municipality of Pirenópolis, ribeirão Dois Irmãos, tributary to the rio do Peixe, tributary to the rio das Almas, tributary to the rio Maranhão, tributary to the rio Tocantins, 15°42'50"S 49°2'39"W. Holotype: NUP 22661.

Distribution: 324 (Deprá *et al.*, 2021).

Knodus savannensis Géry, 1961

Knodus savannensis Géry, 1961d:26, figs. 1–3. Type locality: Savannas of northeastern Brazil, between the lower Rio Tocantins and the Rio Capim. [Brazil]. Holotype: USNM 196088.

Distribution: 323, 324 (Lima, Géry, 2001; Ferreira, 2007).

Knodus shinahota Ferreira, Carvajal, 2007

Knodus shinahota Ferreira, Carvajal, 2007:32, figs. 1–2. Type locality: río Shinahota, approximately 150 m upriver from under bridge of new Cochabamba–Santa Cruz road, río Chapare basin (río Mamoré system), town of Shinahota, Província de Tiraque, Cochabamba, Bolivia, 16° 59'34"S, 65° 15'4"W. Holotype: LIRP 5722.

Distribution: 318 (Ferreira, Carvajal, 2007).

Knodus smithi (Fowler, 1913)

Bryconamericus smithi Fowler, 1913b:557, fig. 18. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. Holotype: ANSP 39293.

Bryconamericus jacunda Fowler, 1913b:555, fig. 17. Type locality: Madeira River, about 200 miles east of W. Long 62° 20', Brazil. Holotype: ANSP 39292.

Distribution: 318a (Ferreira, 2007).

Remarks: Lima *et al.* (2003:144). have previously treated the species as synonyms and serve as first reviser in giving precedence to *B. smithi* over *B. jacunda*. Examination of type material of *Knodus jacunda* and *K. smithi*, confirm that they are synonyms.

Knodus tanaothoros (Weitzman, Menezes, Evers, Burns, 2005)

Bryconadenos tanaothoros Weitzman, Menezes, Evers, Burns, 2005:338, figs. 1–5, 7–9. Type locality: Brazil, Mato Grosso, Serra do Roncador, along shore line of rio Suiá–Missu, near Fazenda Terra do Sol, west of road BR–158 at 12° 50'90"S, 52° 07'46"W; rio Suiá–Missu, flows into rio Suiá–Missu, a tributary of upper rio Xingu. Holotype: MZUSP 85852.

Distribution: 322 (Weitzman *et al.*, 2005).

Knodus tiquiensis Ferreira, Lima, 2006

Knodus tiquiensis Ferreira, Lima, 2006:630, figs. 1–3. Type locality: Brazil, Amazonas, Rio Tiquié, Indian village of Cururu, cachoeira do Cururu, 0° 16'28.9"N, 69° 54'53.6"W. Holotype: MZUSP 88059.

Distribution: 314 (Ferreira, Lima, 2006).

Remarks: Possibly a synonym of *Bryconamericus macrophthalmus* Román–Valencia, 2003d.

Knodus victoriae (Steindachner, 1907)

Tetragonopterus victoriae Steindachner, 1907c:83. Type locality: Mündung in den Parnaíba bei dem Sädtchen Victoria vorkommt. [Information about type locality discussed and defined by Aguiar *et al.*, 2021:3 as “at mouth of a stream that flows into the Parnaíba River, Alto Parnaíba municipality in the State of Maranhão, upper Parnaíba River basin, northeastern Brazil”]. Syntypes (47): NMW 57823 (16), NMW 57824 (13), NMW 57825 (18).

Distribution: 323a, 325a (Ferreira, 2007).

Knodus weitzmani (Menezes, Netto–Ferreira, Ferreira, 2009)

Bryconadenos weitzmani Menezes, Netto–Ferreira, Ferreira, 2009:148, figs. 1–3. Type locality: Brazil, Pará State: Altamira, rio Curuá tributary of rio Iriri, rio Xingu basin, 08° 43'50"S, 54° 57'49"W. Holotype: MZUSP 98666.

Distribution: 322 (Menezes *et al.*, 2009).

KOLPOTOCHEIRODON Malabarba, Weitzman, 2000

FC Jerep, LR Malabarba, J Chuctaya

Kolpotocheirodon Malabarba, Weitzman, 2000:270. Type species: *Kolpotocheirodon theloura* Malabarba, Weitzman, 2000. Type by original designation. Gender: Masculine.

Kolpotocheirodon figueiredoi Malabarba, Lima, Weitzman, 2004

Kolpotocheirodon figueiredoi Malabarba, Lima, Weitzman, 2004:322, figs. 5–6, 8.

Type locality: Brazil, Bahia, Iraquara, rio Pratinha, Fazenda Pratinha (12°21'13"S, 41°32'57"W). Holotype: MZUSP 70037.

Distribution: 328 (Malabarba *et al.*, 2004).

Kolpotocheirodon theloura Malabarba, Weitzman, 2000

Kolpotocheirodon theloura Malabarba, Weitzman, 2000:271, figs. 1–8. Type locality: small marsh at Curva da Morte, Goiás. [Brasília, Brazil]. Holotype: MZUSP 55194.

Distribution: 327, 344 (Malabarba, Weitzman, 2000).

LANDONIA Eigenmann, Henn, 1914

NA Menezes, P Camelier

Landonia Eigenmann, Henn, in Eigenmann, Henn, Wilson, 1914:1. Type species: *Landonia latidens* Eigenmann, Henn, 1914. Type by monotypy. Gender: Feminine.

Landonia latidens Eigenmann, Henn, 1914

Landonia latidens Eigenmann, Henn, in Eigenmann, Henn, Wilson, 1914:2. Type locality: Vinces, Ecuador. Holotype: CAS 55297.

Distribution: 301 (Eigenmann, Henn, 1914; Weitzman, 2003; Meza-Vargas *et al.* 2019).

LEPIDOCHARAX Ferreira, Menezes, Quagio-Grassiotto, 2011

NA Menezes, P Camelier

Lepidocharax Ferreira, Menezes, Quagio-Grassiotto, 2011:283. Type species: *Lepidocharax diamantina* Ferreira, Menezes, Quagio-Grassiotto, 2011. Type by original designation. Gender: Feminine.

Lepidocharax burnsi Ferreira, Menezes, Quagio-Grassiotto, 2011

Lepidocharax burnsi Ferreira, Menezes, Quagio-Grassiotto, 2011:286, figs. 7–9.

Type locality: Brazil, Brumadinho, rio Paraopeba, São Francisco basin, approx. 20°09'S, 44°10'W. Holotype: MCP 45718.

Distribution: 327, 328 (Ferreira *et al.*, 2011).

Lepidocharax diamantina Ferreira, Menezes, Quagio-Grassiotto, 2011

Lepidocharax diamantina Ferreira, Menezes, Quagio-Grassiotto, 2011:283, figs. 2–5.

Type locality: Brazil, Bahia, Palmeiras, rio Santo Antônio, a tributary to rio Paraguaçu, approx. 12° 31'S, 41° 34'W. Holotype: MNRJ 37509.
Distribution: 328 (Ferreira *et al.*, 2011).

LEPTAGONIATES Boulenger, 1887

CR Moreira

Leptagoniates Boulenger, 1887b:281. Type species: *Leptagoniates steindachneri* Boulenger, 1887. Type by monotypy. Gender: Masculine.

Leptagoniates steindachneri Boulenger, 1887

Leptagoniates steindachneri Boulenger, 1887b:282, Pl. 23 (fig. 3). Type locality: Sarayacu. [Río Sarayacu, Río Pastaza basin, Ecuador]. Holotype: BMNH 1880.12.5.252.

Distribution: 316a, 317a, 324 (Quevedo, 2007; Dagosta, de Pinna, 2019).

LEPTOBRYCON Eigenmann, 1915

MMF Marinho

Leptobrycon Eigenmann, 1915:46. Type species: *Leptobrycon jatuaranae* Eigenmann, 1915. Type by original designation. Gender: Masculine.

Leptobrycon jatuaranae Eigenmann, 1915

Leptobrycon jatuaranae Eigenmann, 1915:46, Pl. 6 (fig. 1). Type locality: Jatuarana, Amazon river, Brazil. [“Jatuarana” is an uncertain locality, but “(p)robably an igarape, or lagoa SW of Parintins, near Barreirinha” (Brazil, Amazonas, rio Amazonas) (Higuchi, 1996. Holotype: MCZ 20952 (missing).

Distribution: 316 (Eigenmann, 1915).

LOPHIOBRYCON Castro, Ribeiro, Benine, Melo, 2003 NA Menezes, P Camelier

Lophiobrycon Castro, Ribeiro, Benine, Melo, 2003:13. Type species: *Lophiobrycon weitzmani* Castro, Ribeiro, Benine, Melo, 2003. Type by original designation. Gender: Masculine.

Lophiobrycon weitzmani Castro, Ribeiro, Benine, Melo, 2003

Lophiobrycon weitzmani Castro, Ribeiro, Benine, Melo, 2003:14, figs. 1–2. Type locality: Brazil, Minas Gerais, rio Grande basin, Município de Delfinópolis, Estância Carmem Sílvia, córrego Bom Jesus (20° 12' 10" S, 46° 55' 22" W). Holotype: LIRP 4366.

Distribution: 344 (Castro *et al.*, 2003).

MACROPSOBRYCON Eigenmann, 1915 FC Jerep, LR Malabarba, J Chuctaya

Macropsobrycon Eigenmann, 1915:48. Type species: *Macropsobrycon uruguayanae* Eigenmann, 1915. Type by original designation. Gender: Masculine.

Macropsobrycon uruguayanae Eigenmann, 1915

Macropsobrycon uruguayanae Eigenmann, 1915:48, fig. 13, Pl. 6 (fig. 2). Type locality: not given. [Type locality detailed in the holotype label as Cacequy, Brazil]. Holotype: FMNH 57910.

Distribution: 332, 334, 345 (Jerep, Malabarba, 2011; Miquelarena *et al.*, 2008).

***Macropsobrycon xinguensis* Géry, 1973**

Macropsobrycon xinguensis Géry, 1973:106, figs. 15–17. Type locality: rio Suia Missu (rio Xingù basin), about 12°40'S, and 52°07'W. [Brazil]. Holotype: BMNH 1972.11.15:5.

Distribution: 320a, 322a (Jerep, 2011).

Remarks: According to Jerep, Malabarba, 2011:7. Type species: *Astyanax guaporensis* Eigenmann, 1911. Type by original designation. Gender: Masculine.

MAKUNAIMA Terán, Benitez, Mirande 2020

AM Zanata, VA Bertaco

***Makunaima* Terán, Benitez, Mirande, 2020:7.** Type species: *Astyanax guaporensis* Eigenmann 1911. Type by original designation. Gender: Masculine.

***Makunaima guaporensis* (Eigenmann, 1911)**

Astyanax guaporensis Eigenmann, 1911c:176, Pl. 7 (fig. 4). Type locality: Maciel, Rio Guaporé. [Brazil]. Holotype: FMNH 54709.

Distribution: 319 (Eigenmann, 1911c; Marinho, Ohara, 2013).

Remarks: Placed in *Makunaima* by Terán *et al.* (2020:7).

***Makunaima guianensis* (Eigenmann, 1909)**

Astyanax guianensis Eigenmann, 1909a:16. Type locality: Warraputa, British Guiana [Guyana]. Holotype: FMNH 53518.

Distribution: 308, 310, 314, 315, 316, 318, 319, 320, 322, 323 (Eigenmann, 1909a; Marinho *et al.*, 2015).

Remarks: Placed in *Makunaima* by Terán *et al.* (2020:7).

***Makunaima multidentis* (Eigenmann, 1908)**

Astyanax multidentis Eigenmann, 1908:98. Type locality: Obidos, and Silva, Lake Saraca. [Brazil]. Syntypes: USNM 120244 (6) Obidos; MCZ 21064 (1), 89559 (29). [Information about type series in Marinho, Birindelli (2013)].

Distribution: 315, 316, 320, 322, 324 (Marinho, Birindelli, 2013).

Remarks: Placed in *Makunaima* by Terán *et al.* (2020:7).

MARKIANA Eigenmann, 1903

RC Benine

***Markiana* Eigenmann, 1903:145.** Type species: *Tetragonopterus nigripinnis* Perugia, 1891. Type by original designation. Gender: Feminine.

***Markiana geayi* (Pellegrin, 1909)**

Tetragonopterus (Markiana) nigripinnis geayi Pellegrin, 1909c:347. Type locality: Apuré (Venezuela). Holotype: MNHN 1898-0017.

Distribution: 307, 308, 309, 310 (Taphorn, 1992).

***Markiana nigripinnis* (Perugia, 1891)**

Tetragonopterus nigripinnis Perugia, 1891:643. Type locality: Rio della Plata. Syntypes:

MSNG 9222 (3). [NMW 57677 (1) listed as syntype by Zarske, Géry (2002c:13) not considered a syntype by Carvalho, Santos (2015:146)].

Tetragonopterus anomalus Steindachner, 1891:173. Type locality: Rio Parana bei Corrientes. [Argentina]. Holotype: NMW 57643. [Picture, meristic and morphometric data of holotype in Carvalho, Santos (2015)]. Taxonomic status discussed by Carvalho, Santos (2015).

Distribution: 319, 342, 343, 345 (Carvalho, Santos, 2015).

Remarks: The description of *Markiana nigripinnis* predates that of *Tetragonopterus anomalus* (Carvalho, Santos, 2015) and thus, the former name has precedence over the latter.

MICROGENYS Eigenmann, 1913

AL Netto-Ferreira

Microgenys Eigenmann, 1913:22. Type species: *Microgenys minutus* Eigenmann, 1913. Type by original designation. Gender: Feminine.

Microgenys lativirgata Pearson, 1927

Microgenys lativirgatus Pearson, in Eigenmann, 1927:355. Type locality: Rio Pusoc, above Balsas, Peru. [Río Pusoc is likely a misspelling form of Río Púsac, a right bank tributary of Río Marañon near 06° 58'10"S, 78° 00'01"W]. Syntypes: CAS 47171 (4).

Distribution: 312 (Eigenmann, 1927).

Microgenys minuta Eigenmann, 1913

Microgenys minutus Eigenmann, 1913:22. Type locality: Rio Viera at Piedra Moler. [Piedra de Moler (4° 42'40"N, 75° 51'26"W) in Valle del Cauca, Colombia, near the border with the Risaralda department, is cut by the Río La Vieja (possibly the correct form of the Río Viera of Eigenmann)]. Holotype: FMNH 56215.

Distribution: 302 (Eigenmann, 1913).

Microgenys weyrauchi Fowler, 1945

Microgenys weyrauchi Fowler, 1945b:3, fig. 4. Type locality: Ninabamba near Ayacucho, at 1900 meters elevation, Rio Ucayali basin, Peru. [Ninabamba (13° 25'42"S, 73° 50'17"W) is a small village at the left bank of the Río Pampas, draining into the Río Apurímac]. Holotype: ANSP 71627.

Distribution: 312 (Fowler, 1945b).

Remarks: Although considered a possible synonym of *Bryconacidnus ellisae* by Géry (1977) and Lima *et al.* (2003), specimens lack the "peppered" colour pattern mentioned by Géry for *B. ellisae*. On the other hand, the species shares several similarities with species of *Bryconacidnus*, but only a concatenated revisionary study of both genera will allow a proper evaluation of the validity of *M. weyrauchi*.

MICROSCHEMOBRYCON Eigenmann, 1915

MMF Marinho

Microchemobrycon Eigenmann, 1915:56. Type species: *Microchemobrycon guaporensis* Eigenmann, 1915. Type by original designation. Gender: Masculine.

Microchemobrycon callops Böhlke, 1953

Microchemobrycon callops Böhlke, 1953c:846, Pl. 20 (fig. 2). Type locality: Rio Negro at Camanaos Rapids, Brazil. Camanaos is just down from São Gabriel, at approximately 0°10'North Latitude, 66°55' West Longitude. [Brazil]. Holotype: SU 17491.

Distribution: 307, 314, 315, 316, 319 (Böhlke, 1953c; Géry, 1973; Cavallaro, 2010; Lima *et al.*, 2013).

Remarks: Taxonomic revision and identification key in Géry (1973) and Cavallaro (2010). Pictures and radiography of the holotype in Cavallaro (2010). Taxonomic comments in Lima *et al.* (2013).

***Microchemobrycon casiquiare* Böhlke, 1953**

Microchemobrycon casiquiare Böhlke, 1953c:843, Pl. 20 (fig. 1). Type locality: São Gabriel Rapids of the Rio Negro, Brazil, shortly down river from 0°08'03"S, 67°03'28"W, where the village of São Gabriel is situated. Holotype: SU 17497.

Distribution: 307, 314, 316, (Böhlke, 1953c; Géry, 1973; Lima *et al.*, 2013).

Remarks: Taxonomic revision and identification key in Géry (1973) and Cavallaro (2010). Pictures and radiography of the holotype in Cavallaro (2010). Taxonomic comments in Lima *et al.* (2013).

***Microchemobrycon cryptogrammus* Ohara, Jerup, Cavallaro, 2019**

Microchemobrycon cryptogrammus Ohara, Jerup, Cavallaro, 2019:327, figs. 1, 2. Type locality: Brazil, Pará State, Altamira, Igarapé tributary of Rio Curuá, Rio Xingu basin, 15 km north from Castelo dos Sonhos, 8°10'25"S, 55°7'43"W. Holotype: MZUSP 123748.

Distribution: 322 (Ohara *et al.*, 2019).

***Microchemobrycon elongatus* Géry, 1973**

Microchemobrycon elongatus Géry, 1973:97, figs. 9–11. Type locality: Rio Suiazinho (rio Xingü basin) (...) collecting place North-West of Base Camp, which is 256 km North of Xavantina by road, 12°49'S, 51°46'W. [Brazil]. Holotype: BMNH 1972.11.15.1.

Distribution: 316, 318, 322, 323, 324 (Géry, 1973; Cavallaro, 2010).

Remarks: Taxonomic revision, identification key and pictures and radiography of the holotype in Cavallaro (2010).

***Microchemobrycon geisleri* Géry, 1973**

Microchemobrycon geisleri Géry, 1973:93, figs. 7–8. Type locality: Igarapé, about 35 km N.-W, from Obidos, Rio Curuçamba drainage, lower Amazon basin, Brazil. Holotype: MHNG 2229.09.

Distribution: 314, 316, 319, 321, 323 (Géry, 1973; Cavallaro, 2010; Lima *et al.*, 2013).

Remarks: Taxonomic revision and identification key in Géry (1973) and Cavallaro (2010). Pictures and radiography of the holotype in Cavallaro (2010). Taxonomic comments in Lima *et al.* (2013).

***Microchemobrycon guaporensis* Eigenmann, 1915**

Microchemobrycon guaporensis Eigenmann, 1915:56, Pl. 8 (fig. 2). Type locality: Maciél, Rio Guaporé. [Tributary of rio Madeira, Amazonas basin, Brazil]. Holotype: FMNH 57926.

Distribution: 319 (Cavallaro, 2010; Lima *et al.*, 2013).

Remarks: Taxonomic revision and identification key in Cavallaro (2010). Pictures and radiography of the holotype in Cavallaro (2010). Taxonomic comments in

Lima *et al.* (2013).

Microchemobrycon melanotus (Eigenmann, 1912)

Aphyocharax melanotus Eigenmann, 1912a:312. Type locality: Rockstone sand-bank. [Essequibo river, Guyana]. Holotype: FMNH 53578.

Distribution: 310, 314, 316, 319, 321 (Eigenmann, 1912a; Géry, 1973; Cavallaro, 2010; Lima *et al.*, 2013).

Remarks: Taxonomic revision in Cavallaro (2010). Taxonomic comments in Lima *et al.* (2013).

Microchemobrycon meyburgi Meinken, 1975

Microchemobrycon meyburgi Meinken, 1975:217, figs. 1–4. Type locality: Rio Xeriuini, Brasilien. [Rio Branco drainage, Rio Negro basin]. Holotype: SMF 12271.

Distribution: 314 (Meinken, 1975).

Remarks: Taxonomic revision, identification key and pictures of holotype and paratype in Cavallaro (2010).

MIMAGONIATES Regan, 1907

NA Menezes, P Camelier

Mimagoniates Regan, 1907:402. Type species: *Mimagoniates barberi* Regan, 1907. Type by monotypy. Gender: Masculine.

Coelurichthys Miranda-Ribeiro, 1908: unnumbered. Type species: *Coelurichthys iporanga* Miranda-Ribeiro, 1908. Type by monotypy. Gender: Masculine.

Mimagoniates barberi Regan, 1907

Mimagoniates barberi Regan, 1907b:402. Type locality: Arroyo Yâcá, Estación Caballero, Paraguay. [Paraguay, (arroyo Yâca [= Yhaca, also Yaca], near Estación Caballero; arroyo Yhaca is at 25°39'S, 56°53'W and Caballero is at 25°40'S, 56°49'W (Menezes, Weitzman, 2009)]. Lectotype: BMNH 1907.10.22:5. [Designation by Schultz (1959:63)].

Distribution: 343, 344, 345 (Menezes, Weitzman, 2009; Mantinian, Miquelarena, 2010).

Mimagoniates inequalis (Eigenmann, 1911)

Glandulocauda inequalis Eigenmann, 1911c:169, Pl. 5 (fig. 5). Type locality: Porto Alegre. [Brazil, Rio Grande do Sul, Porto Alegre, (rio Guaíba “in front of town”), approximately 30°02'S, 51°12'W (Menezes, Weitzman, 2009)]. Holotype: FMNH 54893.

Distribution: 332, 334, 335, 345 (Menezes, Weitzman, 2009; Azpelicueta, Koerber, 2012; Azpelicueta, García, 2001).

Mimagoniates lateralis (Nichols, 1913)

Coelurichthys lateralis Nichols, 1913:151. Type locality: These two small aquarium fishes were presented to the American Museum of Natural History by Mr. William Mack, of New York. There was no accompanying data, but they are probably South American. Holotype: AMNH 4072.

Coelurichthys tenuis Nichols, 1913:152. Type locality: These two small Aquarium fishes were presented to the American Museum of Natural History by the New York Aquarium Society. There was no accompanying data. Holotype: AMNH

4087.

Distribution: 330, 331 (Menezes, Weitzman, 2009).

Remarks: Weitzman, Fink, 1985:106 formally placed *Coelurichthys tenuis* Nichols, 1913 as synonym of *Mimagoniates lateralis* (Nichols, 1913) and thus acted as first revisers in establishing priority. Both Nelson, 1964 and Géry, 1966b:230 previously questioned the validity of two (versus one) species. See discussion in Menezes, Weitzman, 2009:303. Although Menezes, Weitzman (2009) mentioned that *Coelurichthys tenuis* was considered a synonym of *M. lateralis* by Menezes, Weitzman, 1990, such a statement is not present in the latter publication and the synonymy might have been only implied.

Mimagoniates microlepis (Steindachner, 1877)

Paragoniates microlepis Steindachner, 1877:591 [33]. Type locality: Streams near Rio de Janeiro, Rio dos Macacos. [Brazil, Rio de Janeiro State, rio Macacu, a tributary to Baía de Guanabara, on northeastern shore (Menezes, Weitzman, 2009)].

Lectotype: NMW 56534. [Designation by Menezes, Weitzman (2009:362, 364)].
Coelurichthys iporangae Miranda-Ribeiro, 1908:[4], fig. 6. Type locality: Ribeirão das Pedras, Iporanga. [Brazil, São Paulo, “Ribeirão das Pedras, Iporanga”, Rio Ribeira de Iguape system, approximately 24°36'S, 48°34'W (Menezes, Weitzman, 2009)]. Holotype: USNM 92955.

Distribution: 328, 329, 330, 331, 334, 335, 344*, 346, 352 (Menezes, Weitzman, 2009).

Remarks: *Mimagoniates microlepis* also occurs in the Alto Tietê drainage, upper rio Paraná basin, Itapeperica da Serra, São Paulo, Brazil (P. Camelier, pers. obs.).

Mimagoniates pulcher Menezes, Weitzman, 2009

Mimagoniates pulcher Menezes, Weitzman, 2009:335, figs. 45–46. Type locality: Brazil, Mato Grosso, “Porto Velho–São Luiz de Cáceres”. [Notes on type locality in Menezes, Weitzman (2009)]. Holotype: MNRJ 17814.

Distribution: 343 (Menezes, Weitzman, 2009).

Mimagoniates rheocharis Menezes, Weitzman, 1990

Mimagoniates rheocharis Menezes, Weitzman, 1990:399, figs. 18–20. Type locality: Brazil, Santa Catarina, Município de Praia Grande, rio Faxinalzinho at Mãe dos Homens, near Praia Grande, approximately 29°20'S, 14°40'W. [The longitude (14°40'W) does not match to the type locality. The correct information is approximately 49°57'W]. Holotype: MZUSP 40278.

Distribution: 335 (Menezes, Weitzman, 2009).

Mimagoniates sylvicola Menezes, Weitzman, 1990

Mimagoniates sylvicola Menezes, Weitzman, 1990:387, figs. 7–8. Type locality: Brazil, Bahia, Município de Prado, forest stream tributary to Atlantic Ocean, near Fazenda Embaçuaba, approximately 8–9 km NW of Cumuruxatiba, 17°05'S, 39°13'W. Holotype: MZUSP 36612.

Distribution: 328 (Menezes, Weitzman, 2009).

Remarks: *Mimagoniates sylvicola* occurs in coastal clear and dark water streams in southeastern to northeastern Bahia State, Brazil. Its northernmost limit of distribution is the Rio Real basin, on Bahia and Sergipe states border (P. Camelier, pers. obs.).

MIXOBRYCON Eigenmann, 1915

FCP Dagosta

Mixobrycon Eigenmann, 1915:62. Type species: *Cheirodon ribeiroi* Eigenmann, 1907. Type by original designation. Gender: Masculine.

Mixobrycon ribeiroi (Eigenmann, 1907)

Cheirodon ribeiroi Eigenmann, in Eigenmann, Ogle, 1907:9. Type locality: Puerto Max, Paraguay Basin. Holotype: CAS 59778.

Distribution: 343 (Eigenmann, Ogle, 1907).

Remarks: Not a Cheirodontinae (Malabarba, 1998). Described in more detail by Eigenmann (1915).

MOENKHAUSIA Eigenmann, 1903

MMF Marinho, RC Benine

Moenkhausia Eigenmann, 1903:145. Type species: *Tetragonopterus xinguensis* Steindachner, 1882. Type by original designation. Gender: Feminine.

Opisthanodus Ahl, 1935:46. Type species: *Opisthanodus haerteli* Ahl, 1935. Type by original designation. Gender: Masculine.

Gymnotichthys Fernández-Yépez, 1950b:9. Type species: *Gymnotichthys hilda* Fernández-Yépez, 1950. Type by original designation. Gender: Masculine. Additional comments: Synonymy proposed by Marinho, Langeani, 2016.

Moenkhausia abyss Oliveira, Marinho, 2016

Moenkhausia abyss Oliveira, Marinho, 2016:567, figs. 1–3, 6a. Type locality: Brazil, Pará, Porto de Moz, rio Xingu, beach at Porto de Moz, 1° 76'33.3"S, 52° 23'91"W. Holotype: MZUSP 117077.

Distribution: 316, 323, 324 (Oliveira, Marinho, 2016).

Remarks: As *Moenkhausia* cf. *megalops* by Lima *et al.*, 2013.

Moenkhausia affinis Steindachner, 1915

Moenkhausia affinis Steindachner, 1915b:348. Type locality: Mündung des Rio Negro. [Three specimens collected by Dr. John D. Haseman near mouth of Rio Negro, Amazon basin, Amazonas, Brazil]. Syntypes: (3) NMW.

Distribution: 314 (Steindachner, 1915b).

Moenkhausia agnesae Géry, 1965

Moenkhausia agnesae Géry, 1965a:14, Pl. 1 (figs. 1–2). Type locality: Igarapé Prêto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Igarapé Prêto, along Upper Amazon, near Belem (not Belém, Pará), about 60 kilometers below Leticia, Brazil]. Holotype: SMF 7238.

Distribution: 316 (Géry, 1965a).

Remarks: Identification key in Géry (1977) and Géry, Zarske (2004).

Moenkhausia alesi Petrolli, Benine, 2015

Moenkhausia alesi Petrolli, Benine, 2015:407, figs. 5, 9d. Type locality: Tocantins, Conceição de Tocantins; rio Palmas at TO 050, near to Chuva de Manga locality, 12° 25'7"S, 47° 11'52"W. Holotype: MZUSP 117139.

Distribution: 324 (Petrolli, Benine, 2015).

Remarks: The distribution of *Moenkhausia alesi* in figure 4 of Petrolli, Benine (2015) is represented by the blue circles and not by the orange circles as erroneously indicated in the figure legend.

Moenkhausia andrica Reia, Oliveira, Benine, 2021

Moenkhausia andrica Reia, Oliveira, Benine, 2021:1380, figs. 1–4, 6a1–a2, 8. Type locality: Brazil, Mato Grosso, Diamantino, ribeirão Santo Antônio, rio Arinos, rio Tapajós basin, 14°09'09.2"S, 57°19'10"W. Holotype: MZUSP 125834.

Distribution: 320 (Reia *et al.*, 2021).

Moenkhausia atahualpiana (Fowler, 1907)

Astyanax atahualpianus Fowler, 1907:436, fig. 36. Type locality: Near Pebas, Peru. [Upper Amazon basin near Pebas, Peru]. Holotype: ANSP 21435.

Distribution: 316 (Fowler, 1907).

Moenkhausia aurantia Bertaco, Jerep, Carvalho, 2011

Moenkhausia aurantia Bertaco, Jerep, Carvalho, 2011b:30, figs. 1–3. Type locality: Brazil, Goiás, Nova Roma, córrego Kavanca at fazenda Kavanca, upper rio Tocantins basin, 13°41'34"S 46°57'45"W. Holotype: UFRGS 13619.

Distribution: 324 (Bertaco *et al.*, 2011b).

Remarks: Picture of color in life in Pastana, Dagosta (2014).

Moenkhausia australis Eigenmann, 1908

Moenkhausia australe Eigenmann, 1908:103. Type locality: Arroyos Trementina and Chagalalina. [Río Trementina and Río Chagalina are tributaries to Rio Aquido Canigi, Rio Paraguay basin, Paraguay]. Lectotype: CAS 70818. [Designated by Reia *et al.*, 2019: 225].

Distribution: 318, 319, 332, 333, 343, 344 (Eigenmann, 1908; Reia *et al.*, 2019).

Remarks: Reia *et al.*, 2019 considered species as valid, presented redescription and corrected specific epithet to "*australis*" for proper gender concordance.

Moenkhausia barbouri Eigenmann, 1908

Moenkhausia barbouri Eigenmann, 1908:103. Type locality: Villa Bella. [Villa Bella corresponds to the city of Parintins at the Amazon river, Amazonas, Brazil]. Syntypes: MCZ 20708 (2).

Distribution: 316, 323a (Eigenmann, 1908; Britzke, 2011).

Remarks: Redescription in Eigenmann (1917) and Britzke (2011). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia bellasomniosa Soares, Lima, Bastos, Rapp Py-Daniel, 2019

Moenkhausia bellasomniosa Soares, Lima, Bastos, Rapp Py-Daniel, 2019:232, figs. 1, 2, 4a. Type locality: Brazil, Amazonas, São Gabriel da Cachoeira, small tributary of Rio Curicuriari (a tributary of Rio Negro), 0°14'39"S, 67°03'31"W. Holotype: INPA 49753.

Distribution: 314 (Soares *et al.*, 2019).

Moenkhausia beninei Lima, Soares, 2018

Moenkhausia beninei Lima, Soares, 2018:70, figs. 1–2. Type locality: Brazil, Amazonas, São Gabriel da Cachoeira, igarapé at km 20 of the road between São Gabriel da Cachoeira and Cucuí, 0°2'59"S, 66°57'48"W. Holotype: ZUEC 16838.

Distribution: 314 (Lima, Soares, 2018).

Moenkhausia bonita Benine, Castro, Sabino, 2004

Moenkhausia bonita Benine, Castro, Sabino, 2004:68, figs. 1–2. Type locality: Rio

Baía Bonita (21° 80'99"S, 56° 82'59"W), Parque Baía Bonita, "Aquário Natural", upper Rio Miranda, Rio Paraguay basin, Mato Grosso do Sul, southwestern Brazil. Holotype: MZUSP 79805.

Distribution: 319, 321, 332, 342, 343, 344, 345 (Benine *et al.*, 2004; Vanegas-Ríos *et al.*, 2019).

Remarks: Study on geographic variation by Vanegas-Ríos *et al.*, 2019.

Moenkhausia britskii Azevedo-Santos, Benine, 2016

Moenkhausia britskii Azevedo-Santos, Benine, 2016:204, figs. 1, 2a, 3a, 4a, 5. Type locality: Brazil, Amazonas State, Santo Antônio do Içá Municipality, Rio Içá, approximately 60 km above its mouth, 3° 0'7.68" S, 69° 2'49.52"W. Holotype: MZUSP 120691.

Distribution: 316 (Azevedo-Santos, Benine, 2016).

Moenkhausia browni Eigenmann, 1909

Moenkhausia browni Eigenmann, 1909a:13. Type locality: Aruataima Falls, Potaro River. [Aruataima Falls, Potaro River, Guyana]. Holotype: FMNH 52732.

Distribution: 310 (Eigenmann, 1909a).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia cambacica Marinho, Ohara, Dagosta, 2021

Moenkhausia cambacica Marinho, Ohara, Dagosta, 2021:4, figs. 1–5. Type locality: Brazil, Rondônia State, Municipality of Vilhena, rio Madeira basin, upper rio Machado, tributary of Igarapé Ávila, near BR-364 road, 12° 30'36.9"S, 60° 28'20.29"W. Holotype: MZUSP 125792.

Distribution: 321 (Marinho, Ohara, Dagosta, 2021).

Moenkhausia celibela Marinho, Langeani, 2010

Moenkhausia celibela Marinho, Langeani, 2010a:880, figs. 1–2. Type locality: Igarapé tributary of the Rio Tapajós, at the bridge of the road between Pimental and Itaituba, 2 km from Pimental, 4° 33'48"S, 56° 15'40"W, Pará State, Brazil. Holotype: MZUSP 102984.

Distribution: 315, 316, 320, 322 (Marinho, Langeani, 2010a).

Moenkhausia ceros Eigenmann, 1908

Moenkhausia ceros Eigenmann, 1908:104. Type locality: Lake Hyanuary. [Lago Januári, Amazon basin, Amazonas, Brazil]. Holotype: MCZ 49161.

Distribution: 314, 316, 321, 322 (Eigenmann, 1908; Lima *et al.*, 2013).

Remarks: Redescription in Eigenmann (1918b). Taxonomic remarks and identification key for the species from the rio Madeira basin in Lima *et al.* (2013). Identification key at generic level in Géry (1977).

Moenkhausia chlorophthalma Sousa, Netto-Ferreira, Birindelli, 2010

Moenkhausia chlorophthalma Sousa, Netto-Ferreira, Birindelli, 2010:256, figs. 1–3. Type locality: Brazil, Pará, Altamira, rio Treze de Maio, tributary of rio Curuá, rio Iri basin, rio Xingu drainage, 08° 45'06"S, 55° 02'05"W. Holotype: MZUSP 99412.

Distribution: 322 (Sousa *et al.*, 2010).

Moenkhausia chrysargyrea (Günther, 1864)

Tetragonopterus chrysargyreus Günther, 1864:328. Type locality: Essequibo. [Guyana]. Holotype: BMNH 1864.1.21.69.

Moenkhausia chrysargyrea leucopomis Fowler, 1914a:244, fig. 7. Type locality: Rupununi River, British Guyana. [Guyana]. Holotype: ANSP 39330.

Distribution: 311, 314, 315, 324 (Planquette *et al.*, 1996).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia collettii (Steindachner, 1882)

Tetragonopterus collettii Steindachner, 1882c:33. Type locality: ...Amazonenstrome bei Obidos und aus den Hyavary.... [Javari River, tributary of Solimões River at the Brazilian-border, ca. 4°21'S, 70°02'W; Brazil, Pará, Amazon River at Óbidos, 1°52'S, 55°30'W (Benine in Reis *et al.*, 2003)]. Syntypes: (several) ?MCZ 20843 (42) Obidos, ?MCZ 90154 (3) Obidos; NMW 57379–82 (3, 3, 2, 5).

Distribution: 307, 310, 311, 314, 316, 318, 319, 320, 321, 322, 323 (Steindachner, 1882c; Lima *et al.*, 2013; MMF Marinho, pers. obs.).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia comma Eigenmann, 1908

Monkhausia comma Eigenmann, 1908:102. Type locality: Cudajas. [Codajás lake, Brazil]. Syntypes: MCZ 20972 (2).

Distribution: 316, 318, 319, 320, 321 (Eigenmann, 1908; Lima *et al.*, 2013).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia conspicua Soares, Bührnheim, 2016

Moenkhausia conspicua Soares, Bührnheim, 2016:393, figs. 1–3. Type locality: Brazil, Pará, Mojuí dos Campos, rio Curuá-Una, igarapé near Tabocal community, 2°37'35.9"S, 54°42'36.3"W. [Solimões River at Codajás, near Ilha Codajás, Amazonas, Brazil, 3°55'S, 62°0'W (Benine in Reis *et al.*, 2003)]. Holotype: INPA 38782.

Distribution: 316 (Soares, Bührnheim, 2016).

Moenkhausia copei (Steindachner, 1882)

Tetragonopterus copei Steindachner, 1882c:35. Type locality: ...Amazonestrom bei Santarem. [Amazon river at Santarém, Pará]. Syntypes: (several) ?MCZ 89960 (30) Obidos; NMW 57383 (5).

Distribution: 316 (Steindachner, 1882c).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia cosmops Lima, Britski, Machado, 2007

Moenkhausia cosmops Lima, Britski, Machado, 2007:47, figs. 1–3. Type locality: Brazil, Mato Grosso, Sapezal, córrego Vinte e Cinco de Maio, near its mouth at the Rio Papagaio, 13°35'47" S, 58°25'27"W. Holotype: MZUSP 93494.

Distribution: 320, 343 (Lima *et al.*, 2007).

Moenkhausia costae (Steindachner, 1907)

Tetragonopterus costae Steindachner, 1907c:84. Type locality: Rio San Francisco, Rio grande do Norte und Rio Preto bei Joazeiro, Barra, Sa Rita [Brazil]. Syntypes: MNHN 1907-0178 (4); MZUT 1682 (3); NMW 57391–98 (8?), 57401–06 (6?), 57408–09 (2?) 57411 (1); ZSM 7586–87 (2).

Distribution: 327 (Steindachner, 1907c. Introduced in 326 (Ramos *et al.*, 2021)).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia cotinho Eigenmann, 1908

Moenkhausia cotinho Eigenmann, 1908:104. Type locality: Para, Thayer Expedition. [Brazil]. Lectotype: MCZ 21070. [Designated by Mathubara, Toledo-Piza, 2020:12].

Knodus albolineatus Holly, 1929:117 [1]. Type locality: Piquirão (Amazonasgebiet). [Brazil]. Syntypes: NMW 83365 (2). [but see Bogutskaya *et al.*, 2022:49]. Status of species discussed by Zarske, Géry (2006c).

Distribution: 307*, 308, 310, 311, 314*, 315, 319, 320*, 321, 322, 323, 316 (Eigenmann, 1918; Lowe-McConnell, 1991; Lima *et al.*, 2013; Mathubara, Toledo-Piza, 2020; MMF Marinho, pers. obs.).

Remarks: Species redescribed by Mathubara, Toledo-Piza, 2020.

Moenkhausia crisnejas Pearson, 1929

Moenkhausia crisnejas Pearson, in Eigenmann, Myers, 1929:524. Type locality: Paipay, Rio Crisnejas, Peru. Syntypes: CAS 60477 (24).

Distribution: 317 (Eigenmann, Myers, 1929).

Remarks: Probably a species of Stevardiinae (MMF Marinho, pers. obs.).

Moenkhausia dasalmas Bertaco, Jerep, Carvalho, 2011

Moenkhausia dasalmas Bertaco, Jerep, Carvalho, 2011a:59, figs. 1–5. Type locality: Brazil, Goiás, Cavalcante, tributary of the rio das Almas about 8 km North of Cavalcante on GO 241 road, upper rio Tocantins basin, between Cavalcante and Minaçu, 13° 43'13"S, 47° 27'20"W. Holotype: UFRGS 11221.

Distribution: 324 (Bertaco *et al.*, 2011a).

Remarks: Largest known specimen of 79.2 mm SL (MZUSP 113838).

Moenkhausia diamantina Benine, Castro, Santos, 2007

Moenkhausia diamantina Benine, Castro, Santos, 2007:260, figs. 1–2. Type locality: Foz do rio Toalhas, rio Paraguaçu basin, município de Lençóis, Bahia, Brazil. Holotype: MNRJ 30168.

Distribution: 328 (Benine *et al.*, 2007).

Moenkhausia dichrourea (Kner, 1858)

Tetragonopterus dichroureus Kner, 1858a:80. Type locality: Brasilien. [Kner (1859:179) provided more detailed information about the type locality of the species: the author cited specimens from Rio Guaporé, Caiçara and Rio Paraguay, Brazil]. Syntypes: NMW 56219 (4), 57593 (2).

Distribution: 343 (Kner, 1858a; Britzke, 2011).

Remarks: Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia diktyota Lima, Toledo-Piza, 2001

Moenkhausia diktyota Lima, Toledo-Piza, 2001:1058, figs 1–2. Type locality: Rio Negro, igarapé at São João, near Santa Isabel do Rio Negro, 0° 24'S, 65° 02'W, Amazonas, Brazil. Holotype: MZUSP 62614.

Distribution: 314 (Lima, Toledo-Piza, 2001).

Moenkhausia dorsinuda Zarske, Géry, 2002

Moenkhausia dorsinuda Zarske, Géry, 2002:13, figs. 1–3. Type locality: Bolivien, Departamento Beni, Río Ipurupuru, unweit der Kreuzung des Flußes an

der Straße nach San Ramón, etwa 73km nördlich Trinidad (14°12'538"S, 64°56'268"W [sic]). [Río Ipurupuru, not far from the crossing of the river and the road to San Ramón, about 73 kilometers north of Trinidad, 14°12'53.8"S, 64°56'26.8"W, Departamento Beni, Bolivia]. Holotype: MTD F 24833.

Distribution: 318 (Zarske, Géry, 2002).

Moenkhausia eigenmanni Géry, 1964

Moenkhausia eigenmanni Géry, 1964c:30, fig. 5. Type locality: About 200 miles east of Bogota, Colombia, in the upper Rio Meta drainage. Holotype: USNM 198640.

Distribution: 307 (Géry, 1964c).

Remarks: Identification key in Géry (1977).

Moenkhausia eurystaenia Marinho, 2010

Moenkhausia eurystaenia Marinho, 2010:656, figs. 1–2. Type locality: Rio Von Den Stein, on the road to Agua Limpa, 13°14'19"S, 54°53'01"W, rio Ronura drainage, rio Xingu basin, Nova Ubiratã, Mato Grosso, Brazil. Holotype: MZUSP 106058.

Distribution: 322 (Marinho, 2010).

Moenkhausia flava Britzke, Troy, Oliveira, Benine, 2018

Moenkhausia flava Britzke, Troy, Oliveira, Benine, 2018:3, figs. 1–2, 4, 6. Type locality: Brazil, Mato Grosso State, Tangará da Serra, Córrego São Jorge, tributary of rio Sepotuba, rio Paraguay basin, 14°27'24.9"S, 57°34'32.7"W. Holotype: MZUSP 123719.

Distribution: 343 (Britzke, Troy, Oliveira, Benine, 2018).

Moenkhausia forestii Benine, Mariguela, Oliveira, 2009

Moenkhausia forestii Benine, Mariguela, Oliveira, 2009:162, figs. 1–2. Type locality: Brazil, Mato Grosso State, Cáceres, rio Sepotuba, rio Paraguay basin, 15°46'07"S, 57°38'54"W. Holotype: MZUSP 97827.

Distribution: 343 (Benine *et al.*, 2009).

Remarks: Included in molecular analysis by Reia *et al.* (2019).

Moenkhausia goya Deprá, Azevedo-Santos, Vitorino Júnior, Dagosta, Marinho, Benine, 2018

Moenkhausia goya Deprá, Azevedo-Santos, Vitorino Júnior, Dagosta, Marinho, Benine, 2018:88, figs. 1–3. Type locality: Brazil, Goiás, Pirenópolis, ribeirão Dois Irmãos, trib. rio das Almas, rio Maranhão basin, 15°42'50"S, 49°2'39"W, elevation 713 m. Holotype: MCP 51734.

Distribution: 324 (Deprá, Azevedo-Santos, Vitorino Júnior, Dagosta, Marinho, Benine, 2018).

Moenkhausia gracilima Eigenmann, 1908

Moenkhausia lepidurus gracilimus Eigenmann, 1908:104. Type locality: Villa Bella. Serpa, Brazil. [Villa Bella corresponds to the city of Parintins and Serpa to the city of Itacoatiara, Amazonas, Brazil]. Syntypes: (21) MCZ 20983 (now 13), USNM 120279 (4) Serpa.

Distribution: 314, 316, 321a, 323a (Eigenmann, 1908; Géry, 1992; Marinho, 2009).

Remarks: A very similar form occurs in the upper rio Parana basin. A taxonomic revision is necessary to properly diagnose the species. For taxonomic notes and identification key see Géry (1992) and Marinho, Langeani (2016).

Moenkhausia grandisquamis (Müller, Troschel, 1845)

Tetragonopterus grandisquamis Müller, Troschel, 1845:27, Pl. 8 (fig. 2). Type locality:

Surinam. Syntypes: ?ZMB 3593 (1). [information about types requires further research].

Distribution: 311, 314, 315, 316, 317, 318, 319, 320, 321, 322, 324 (Valter M. Azevedo-Santos, pers. comm.).

Moenkhausia hasemani Eigenmann, 1917

Moenkhausia lepidura hasemani Eigenmann, 1917:102, Pls. 15 (fig. 3), 101 (fig. 5). Type locality: Santarem. [Rio Amazonas at Santarém, Amazonas, Brazil]. Holotype: FNNH 55055.

Distribution: 314*, 316, 318*, 319*, 320*, 321*, 322*, 323*, 324* (Eigenmann, 1917; MMF Marinho, pers. obs.).

Remarks: Identification key in Marinho, Langeani, 2016.

Moenkhausia heikoi Géry, Zarske, 2004

Moenkhausia heikoi Géry, Zarske, 2004:30, figs. 1–7. Type locality: Rio Iriri, a left-hand tributary of the Rio Xingú well above Altamira, among rocks in 2,5 m depth at edge of island between Rio Novo and Igarapé Grota, ca.10 km below mouth of R. Novo, State of Pará, Brazil, co-ordinates approximately 4°25'S, 53°40'W. Holotype: MZUSP 83536.

Astyanax dnophos Lima, Zuanon, 2004:118, figs. 1–3. Type locality: Brazil, Pará, Altamira, rio Xingu, Costa Júnior, 03°29'37"S, 52°20'10"W. Holotype: INPA 22072. Status of species discussed by Lima *et al.* (2006).

Distribution: 322 (Géry, Zarske, 2004; Lima, Zuanon, 2004; Lima *et al.*, 2006).

Remarks: Publication of the description *Moenkhausia heikoi* preceded that of *Astyanax dnophos* by five days and therefore has priority (Lima *et al.*, 2006:31).

Moenkhausia hemigrammoides Géry, 1965

Moenkhausia hemigrammoides Géry, 1965d:109, fig. 6. Type locality: Mateokasie creek, on the road Albina-Moengo, Cottica River, basin. [Suriname]. Holotype: ZMA 104227.

Distribution: 306, 307, 311 (Géry, 1965d; Méndez-López, Urbano-Bonilla, 2019).

Moenkhausia hysterostricta Lucinda, Malabarba, Benine, 2007

Moenkhausia hysterostricta Lucinda, Malabarba, Benine, 2007:62, figs. 1–2. Type locality: Rio Tocantins, Ipueiras, approximately 11°19'S, 48°28'W, Tocantins, Brazil. Holotype: MCP 32559.

Distribution: 307, 316a, 321, 324 (Lucinda *et al.*, 2007; Marinho, 2009; Lima *et al.*, 2013).

Remarks: Taxonomic remarks in Marinho (2009) and identification key in Marinho, Langeani (2016).

Moenkhausia icae Eigenmann, 1908

Moenkhausia lepidurus icae Eigenmann, 1908:103. Type locality: Iça. [Rio Iça, tributary of rio Solimões, Amazon basin, Brazil]. Syntypes: (many) MCZ 20810 (1), 20812 (30, missing).

Distribution: 316 (Eigenmann, 1908; Géry, 1992; Marinho, 2009).

Remarks: Identification key in Eigenmann (1917), Géry (1992), Marinho, Langeani (2016). Taxonomic review in Marinho (2009).

Moenkhausia inrai Géry, 1992

Moenkhausia inrai Géry, 1992:74, figs. 7–11. Type locality: Crique Roche au-dessus du Saut Grand Canori, Approuague. [Rock Creek upstream of the Grand Saut

Canori, Approuague, French Guiana]. Holotype: MNHN 1992-0943.

Distribution: 311 (Géry, 1992; Planquette *et al.*, 1996).

Remarks: Redescription in Marinho (2009). Identification key in Géry (1992) and Marinho (2009). See Planquette *et al.* (1966) for notes on taxonomy, ecology, and distribution.

Moenkhausia intermedia Eigenmann, 1908

Moenkhausia dichrourus intermedius Eigenmann, 1908:103. Type locality: Tabatinga. [Amazonas, Brazil]. Syntypes: MCZ 20762 (2).

Astyanax bipunctialbicaudalis Godoy, 1977:666, figs. 6–8. Type locality: Rio Mogi Gaussu, Cachoeira de Emas, Pirassununga (SP), mais ou menos 500m abaixo da ponte. [Brazil]. Holotype: EEBP 718 [probably lost, see Sabaj, 2020 for comments on EEBP collection].

Distribution: 316, 318, 319, 320, 321 (Eigenmann, 1908; Eigenmann, 1917; Lima *et al.*, 2013).

Remarks: Identification key in Eigenmann (1917) and Géry (1977). Redescription in Eigenmann (1917). Distributional comments in Vanegas-Ríos *et al.* (2019).

Moenkhausia ischyognatha Petrolli, Benine, 2015

Moenkhausia ischyognatha Petrolli, Benine, 2015:404, figs. 2, 3, 9c. Type locality: Mato Grosso, Gaúcha do Norte; Rio Curisevo, afluyente rio Xingu, Porto Vitória, next ribeirão Kevuaieli, 13°02'05"S 53°25'19" W. [Brazil]. Holotype: MZUSP 117140.

Distribution: 322 (Petrolli, Benine, 2015).

Remarks: The distribution of *Moenkhausia ischyognatha* in figure 4 of Petrolli, Benine (2015) is represented by the orange circles and not by the blue circles as erroneously indicated in the figure legend.

Moenkhausia jamesi Eigenmann, 1908

Moenkhausia jamesi Eigenmann, 1908:102. Type locality: Iça Obidos, Lago do Máximo, Tajapurú. [Brazil]. Syntypes: MCZ 20734 (1), 20742 (1), 20816 (2), 20827 (1). [Paralectotype designation by Petrolli, Benine (2015:413) is in error. All specimens are syntypes].

Distribution: 316 (Eigenmann, 1908; Petrolli, Benine, 2015).

Remarks: Identification key in Eigenmann (1917) and Géry (1977). Redescription in Eigenmann (1917) and Petrolli, Benine, 2015).

Moenkhausia justae Eigenmann, 1908

Moenkhausia justae Eigenmann, 1908:102. Type locality: Type locality not given. [Eigenmann (1917) later stated that the single (type) specimen of *M. justae* “came with others from Dr. Justa through Major Coutinho and was probably found in the neighborhood of Manaus” (= Manaus), Brazil]. Holotype: MCZ 21014.

Distribution: 316, 324 (Eigenmann, 1908; Petrolli, Benine, 2015).

Remarks: Identification key in Eigenmann (1917) and Géry (1977). Redescription in Eigenmann (1917) and Petrolli, Benine, 2015).

Moenkhausia lata Eigenmann, 1908

Moenkhausia lepidurus latus Eigenmann, 1908:103. Type locality: Rio Tapajós. Syntypes: (many) CAS 42760 (5), MCZ 20860 (19), USNM 120278 (4).

Distribution: 307a, 308a, 314a, 316 (Eigenmann, 1908; Marinho, 2009; Lima *et al.*, 2013).

Remarks: Identification key in Eigenmann (1917), Géry (1992), Lima *et al.* (2013) and (Marinho, Langeani, 2016). Taxonomic review in Marinho (2009). Taxonomic notes in Lima *et al.* (2013).

Moenkhausia latissima Eigenmann, 1908

Moenkhausia latissimus Eigenmann, 1908:101. Type locality: Tabatinga. [Tabatinga, upper rio Amazonas basin near Brazil and Colombia border, Amazonas, Brazil]. Syntypes: (many) MCZ 20767 (9), 20769 (now 9); USNM 120277 (3).

Distribution: 316 (Eigenmann, 1908).

Remarks: Humeral spot horizontally elongate (similar to *Moenkhausia comma*), a series of dark longitudinal lines on body and 30–33 branched anal-fin rays. Considered a species of *Gymnocorymbus* by Géry (1977) but not by Lima *et al.* (2003) and Benine *et al.* (2015). Identification key and redescription in Eigenmann (1917).

Moenkhausia lepidura (Kner, 1858)

Tetragonopterus lepidurus Kner, 1858a:80. Type locality: Brasilien. [Kner (1859) later indicated type locality as “Rio Guaporé”]. Syntype: NMW 57566 (1). [Kner (1858a) presented a brief description of *Moenkhausia lepidura* not mentioning the number of specimens examined. Later, Kner (1859) redescribed the species in more detail. The number of specimens analyzed was not specified, but description of the variation of meristic data suggested that more than one specimen was examined. (Marinho, Langeani, 2016). Marinho, Langeani (2016) found only one specimen treated as a syntype (NMW 57566)].

Knodus calliurus Ahl, 1931a:208, fig. 2. Type locality: Rio Capim. [Rio Capim, lower Amazon basin, Pará, Brazil]. Holotype: ZMB 23684.

Gymnotichthys hildae Fernández-Yépez, 1950b:10, Pl. 2 (fig. 1). Type locality: Rio Autana. [Amazonas, Venezuela]. Holotype: MHNLS 963. Synonymy proposed by Marinho, Langeani, 2016. Comments in Géry (1977:451); identification key in Géry (1992:78).

Distribution: 307, 308, 316, 314*, 319, 321, 323*, 324* (Kner, 1859; Lima *et al.*, 2013; MMF Marinho, pers. obs.).

Remarks: The species was briefly described in Kner (1858a). A more detailed description was given in Kner (1859). Taxonomic comments and identification key in Géry (1992). Redescription and identification key in Marinho, Langeani (2016). Comments on relationships in Darlim, Marinho (2018).

Moenkhausia levidorsa Benine, 2002

Moenkhausia levidorsa Benine, 2002:290, fig. 1, 3a, 4a. Type locality: Núcleo Aripuanã, Igarapé do Aeroporto, Furo Bahia, above cachoeira de Dardanelos (approximately 10°10'S, 59°25'W). [Brazil]. Holotype: INPA 16774.

Distribution: 321 (Benine, 2002).

Moenkhausia lineomaculata Dagosta, Marinho, Benine, 2015

Moenkhausia lineomaculata Dagosta, Marinho, Benine, 2015:418, figs. 1–3. Type locality: Campos de Júlio, rio Juruena at Fazenda Tiroleza, upper rio Tapajós basin, Mato Grosso State, Brazil, 14°16'37"S, 59°5'22"W. Holotype: MZUSP 117108.

Distribution: 320 (Dagosta *et al.*, 2015).

Moenkhausia lopesi Britski, de Silimon, 2001

Moenkhausia lopesi Britski, de Silimon, 2001:113, fig. 2–3. Type locality: Ribeirão

Sozinho na rodovia BR 163, entre Rondonópolis e Coxim (aproximadamente 17° 30'S, 55° 10'W), município de Rondonópolis, Estado do Mato Grosso do Sul, Brazil. Holotype: MZUSP 64480.

Distribution: 320, 343* (Britski, de Silimon, 2001; MMF Marinho, pers. obs.).

Remarks: Picture of color in life in Bertaco *et al.* (2011b).

Moenkhausia loweae Géry, 1992

Moenkhausia loweae Géry, 1992:73, fig. 6. Type locality: Rio das Mortes à Xavantina. [Rio das Mortes at Xavantina, Mato Grosso, upper rio Araguaia basin, Brazil]. Holotype: MZUSP 44560.

Distribution: 322a, 324 (Géry, 1992; Marinho, 2009).

Remarks: Taxonomic review in Marinho (2009). Identification key in Géry (1992) and Marinho, Langeani, (2016).

Moenkhausia madeirae Fowler, 1913

Moenkhausia lepidura madeirae Fowler, 1913b:540, fig. 11. Type locality: Tributary of Rio Madeira near Porto Velho, Brazil. Holotype: ANSP 39224.

Distribution: 318, 319, 321 (Lima *et al.*, 2020).

Remarks: Species revalidated and redescribed by Lima *et al.*, 2020.

Moenkhausia margitae Zarske, Géry, 2001

Moenkhausia margitae Zarske, Géry, 2001a:7, figs. 1–2. Type locality: Peru, Ucayali, Quebrada an der Straße Campo verde–Nueva Requena (etwa auf halber Strecke). [Stream on road Campo Verde–Nueva Requena (about half-way), Ucayali, Amazon basin, Peru]. Holotype: MTD F 17256.

Distribution: 316 (Zarske, Géry, 2001a).

Moenkhausia megalops (Eigenmann, 1907)

Astyanax megalops Eigenmann, in Eigenmann, Ogle, 1907:29. Type locality: Itaituba, Brazil. [Itaituba, Rio Tapajós basin, Pará, Brazil]. Holotype: CAS 71433.

Distribution: 319, 320, 321 (Eigenmann, 1907; Lima *et al.*, 2013).

Remarks: Identification key in Eigenmann (1917), Géry (1977) and Marinho, Langeani (2016). Redescription in Eigenmann (1917). Taxonomic comments and picture in life in Oliveira, Marinho (2016).

Moenkhausia melogramma Eigenmann, 1908

Moenkhausia melogrammus Eigenmann, 1908:102. Type locality: Tabatinga. [Tabatinga, upper rio Amazonas basin near Brazil and Colombia border, Amazonas, Brazil]. Holotype: MCZ 20825.

Distribution: 316 (Eigenmann, 1908).

Remarks: Species redescribed by Soares *et al.*, 2020.

Moenkhausia metae Eigenmann, 1922

Moenkhausia metae Eigenmann, 1922:234, Pl. 34 (fig. 3). Type locality: Barrigón, rio Meta. [Rio Meta at Puerto Barrigón, Orinoco river basin, Colombia]. Holotype: CAS 55610.

Distribution: 307 (Eigenmann, 1922).

Remarks: Identification key in Géry (1977).

Moenkhausia miangi Steindachner, 1915

Moenkhausia miangi Steindachner, 1915c:43 [29], Pl. 3 (fig. 5). Type locality: Miang an der Grenze von Venezuela. [Miang, on the border of Venezuela]. Syntypes: (10) NMW 56297–300 (1, 2, 9, 1).

Distribution: 308 (Steindachner, 1915c).

Moenkhausia mikia Marinho, Langeani, 2010

Moenkhausia mikia Marinho, Langeani, 2010b:58, figs. 1–5. Type locality: Rio Tiquié, rio Negro drainage, igapó at Jabuti village, Amazonas, Brazil, 0°16'31.9"N, 69°53'36.4"W. Holotype: MZUSP 85166.

Distribution: 314, 316, 320, 321, 323 (Marinho, Langeani, 2010b).

Remarks: Identification key in Lima *et al.* (2013) and Marinho, Langeani (2016).

Moenkhausia moisae Géry, Planquette, Le Bail, 1995

Moenkhausia moisae Géry, Planquette, Le Bail, 1995:67, figs. 1–2. Type locality: Crique Balaté, Bas Maroni. [French Guiana]. Holotype: MNHN 1995–1073.

Distribution: 311 (Géry *et al.*, 1995).

Moenkhausia monicae Marinho, Dagosta, Camelier, Lima, 2016

Moenkhausia monicae Marinho, Dagosta, Camelier, Lima, 2016a:243, fig. 1–2. Type locality: Brazil, Mato Grosso, Sapezal, Rio Buriti, tributary of Rio Papagaio at Ilha do Papagaio, Rio Juruena drainage, Rio Tapajós basin, 12°48'02.8"S, 58°23'54.5"W. Holotype: MZUSP 115489.

Distribution: 320 (Marinho *et al.*, 2016a).

Moenkhausia mutum Dagosta, Marinho, 2016

Moenkhausia mutum Dagosta, Marinho, 2016:[2], fig. 1. Type locality: Brazil, Mato Grosso State, Nova Mutum, stream at road Nobres–Nova Mutum, on the intersection before Nova Mutum, tributary of rio dos Patos, rio Arinos drainage, rio Tapajós basin, 13°49'9"S, 56°10'53.9"W. Holotype: MZUSP 117071.

Distribution: 320 (Dagosta, Marinho, 2016).

Moenkhausia naponis Böhlke, 1958

Moenkhausia naponis Böhlke, 1958a:14, Pl. 2 (fig. 2), figs. 1–2. Type locality: Headwaters of Río Arajuno. [Headwaters of Río Arajuno, southern tributary of the upper Napo, Ecuador, 1°24' to 1°26'S, 77°50' to 77°55'W]. Holotype: USNM 164067.

Distribution: 313 (Böhlke, 1958a).

Remarks: Identification key in Géry (1977).

Moenkhausia newtoni Travassos, 1964

Moenkhausia newtoni Travassos, 1964:543, fig. 6–9. Type locality: Rio Cachimbo, Cachimbo, Aeroporto da FAB. Abaixo do salto. Estado do Pará. 9°22'S, 54°5'W, Brazil. [The type locality is situated near a watershed between Xingu and Tapajós river basins. The coordinates indicate a tributary of the rio Xingu basin]. Holotype: MNRJ 9177.

Distribution: 322 (Travassos, 1964).

Moenkhausia nigromarginata Costa, 1994

Moenkhausia nigromarginata Costa, 1994:22, figs. 1–2. Type locality: Brazil: Estado de Mato Grosso, small stream, tributary to rio Cravari near the road MT-170, about 10 kilometers N of Campo Novo do Parecis, rio Tapajós basin. Holotype: MNRJ 12429.

Distribution: 320 (Costa, 1994).

Remarks: Picture of color in life in Pastana, Dagosta (2014).

Moenkhausia oligolepis (Günther, 1864)

Tetragonopterus oligolepis Günther, 1864:327. Type locality: British Guiana [Guyana].

Holotype: BMNH 1969.12.19.2.

Tetragonopterus agassizii Steindachner, 1876c:89 [41], Pl. 8 (fig. 2). Type locality: Tabatinga. [Brazil]. Syntypes: (several) ZMUC 42 (1); NMW 57176–79 (2, 2, 3, 2).

Distribution: 308, 311, 314, 316, 318, 319, 320, 323, 324, 343 (Günther, 1864; Benine *et al.*, 2009; Lima *et al.*, 2013; Dagosta, de Pinna, 2019).

Remarks: Identification key in Eigenmann (1917), Géry (1992), Marinho (2009) and Lima *et al.* (2013) (for the species from the Rio Madeira). Taxonomic notes in Benine *et al.* (2009) and Lima *et al.* (2013). Included in molecular analysis by Reia *et al.* (2019).

Moenkhausia orteguasae Fowler, 1943

Moenkhausia orteguasae Fowler, 1943d:233, fig. 14. Type locality: Florencia, Rio Ortegusa, Colombia. Holotype: ANSP 70496.

Distribution: 313 (Fowler, 1943d).

Remarks: Apparently, this species has both caudal-fin lobes dark, similar to *Moenkhausia dichroua* (Fowler, 1943d; Britzke, 2011).

Moenkhausia ovalis (Günther, 1868)

Tetragonopterus ovalis Günther, 1868a:480. Type locality: Xeberos. [Upper Amazon basin, Jeberos, Loreto, Peru]. Holotype: BMNH 1867.6.13.87.

Distribution: 316 (Günther, 1868a).

Remarks: Brief redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia pankilopteryx Bertaco, Lucinda, 2006

Moenkhausia pankilopteryx Bertaco, Lucinda, 2006:59, figs. 2–3. Type locality: Brazil: Pará: rio Itacaiunas (rio Tocantins drainage), about 10 km east of road N–4, Serra dos Carajás at Igarapé, approx. 05° 52'S, 50° 32'W. Holotype: MZUSP 88258.

Distribution: 324 (Bertaco, Lucinda, 2006).

Remarks: Taxonomic notes in Lima *et al.* (2013) under *Moenkhausia* cf. *pankilopteryx*.

Moenkhausia parecis Ohara, Marinho, 2016

Moenkhausia parecis Ohara, Marinho, 2016:[2] 38, figs. 1–2. Type locality: Brazil, Rondônia, Vilhena, rio Madeira basin, upper rio Machado, tributary of Igarapé Piracolina, near road BR 364, 12° 48'56.5"S, 60° 06'37.6"W. Holotype: MZUSP 116070.

Distribution: 321 (Ohara, Marinho, 2016).

Moenkhausia petymbuaba Lima, Birindelli, 2006

Moenkhausia petymbuaba Lima, Birindelli, 2006:54, figs. 1–2. Type locality: Brazil: Estado do Pará: Rio Curuá, Serra do Cachimbo, Santarém–Cuiabá road, ca. 8° 44'S, 54° 57'W. Holotype: MZUSP 85577.

Distribution: 322 (Lima, Birindelli, 2006).

Remarks: Picture of color in life in Sousa *et al.* (2010).

Moenkhausia phaeonota Fink, 1979

Moenkhausia phaeonota Fink, 1979:2, figs. 1–2. Type locality: Brazil, Mato Grosso, from the shores of an island “below Rio dos Peixes”, Rio Arinos, Juruena–Tapajós drainage. Holotype: MZUSP 13793.

Distribution: 320, 321*, 322, 343 (Fink, 1979; Lowe–McConnell, 1991; Lima *et al.*, 2007; MMF Marinho, pers. obs.).

Remarks: *Moenkhausia phaeonota* occurs in the upper portions of Rio Madeira, Rio Tapajós, Rio Xingu and Rio Paraguai basins. Some populations of the Rio Madeira and Rio Teles Pires (Tapajós) drainages have the lateral line incompletely pored.

Moenkhausia pirahan Mathubara, Toledo–Piza, 2020

Moenkhausia pirahan Mathubara, Toledo–Piza, 2020:25, figs. 4B, 7C, 13–16. Type locality: Brazil, Rondônia, Igarapé Traíra, Transamazônica highway, 40 Km from the ferryboat of Humaitá, to Apuí, Humaitá, 7°35'31"S, 62°44'45"W. Holotype: MZUSP 125777.

Distribution: 316, 320 (Mathubara, Toledo–Piza, 2020).

Moenkhausia pirauba Zanata, Birindelli, Moreira, 2010

Moenkhausia pirauba Zanata, Birindelli, Moreira, 2010:2616, figs 1, 2b, 3b, 4b, 5. Type locality: Estado do Mato Grosso, Município de Campinápolis, Rio Sucuri, tributary of Rio Culuene, Rio Xingu basin, 13°55'40"S, 53°17'10"W. [Brazil]. Holotype: MZUSP 97741.

Distribution: 320, 322, 324* (Zanata *et al.*, 2010; MMF Marinho, pers. obs.).

Remarks: Two populations from the upper rio Araguaia basin present similar coloration and high scale counts (diagnostic for *Moenkhausia pirauba*), and thus are herein considered conspecific.

Moenkhausia pittieri Eigenmann, 1920

Moenkhausia pittieri Eigenmann, 1920:10, Pl. 3. Type locality: Concejo, Rio Tiquirito. [Concejo, rio Tiquirito, Orinoco river basin, Venezuela]. Holotype: CAS 62059.

Opisthanodus haerteli Ahl, 1935:47. Type locality: Amazonas bei Para. [Amazonas at Pará, Brazil]. Lectotype: ZMB 20793. [Designated by Zarske, Géry (1995)].

Distribution: 308 (Eigenmann, 1920).

Remarks: Identification key in Géry (1977).

Moenkhausia plumbea Sousa, Netto-Ferreira, Birindelli, 2010

Moenkhausia plumbea Sousa, Netto-Ferreira, Birindelli, 2010:259, figs. 6–8. Type locality: Brazil, Pará, Novo Progresso, tributary to rio Braço Norte, at bridge of BR 163 road near Air Force Base, rio Peixoto de Azevedo, rio Teles Pires drainage, rio Tapajós basin; 09°17'59"S, 54°50'00"W. Holotype: MZUSP 99415.

Distribution: 320 (Sousa *et al.*, 2010).

Moenkhausia pyrophthalma Costa, 1994

Moenkhausia pyrophthalma Costa, 1994:25, figs. 3–4. Type locality: Brazil: Estado de Mato Grosso, Stream crossing the road between Água Boa and Cocalinho, 13 km W of the point where the road reaches rio das Mortes, Rio Araguaia-Tocantins basin, 14°03'S, 51°47'W. Holotype: MNRJ 12431.

Distribution: 324 (Costa, 1994).

Moenkhausia restricta Soares, Benine, 2019

Moenkhausia restricta Soares, Benine, 2019:488, figs. 1–2, 4b. Type locality: Brazil, Amazonas, São Gabriel da Cachoeira, Rio Miuá (trib. Rio Negro), 00°06'31"S, 66°52'58"W. Holotype: MZUSP 125291.

Distribution: 314 (Soares, Benine, 2019).

Moenkhausia robertsi Géry, 1964

Moenkhausia robertsi Géry, 1964h:21, fig. 1. Type locality: Upper Amazon region surrounding Iquitos. [Four specimens collected by Mr. Jack Roberts, Iquitos,

Peru]. Holotype: USNM 200427.

Distribution: 316 (Géry, 1964h).

Moenkhausia rondoni Mathubara, Toledo-Piza, 2020

Moenkhausia rondoni Mathubara, Toledo-Piza, 2020:18, figs. 4C, 5B, 7B, 10–11.

Type locality: Brazil, Rondônia, Igarapé Arara, tributary of rio Madeira, Porto Velho, 10°0'48"S, 65°19'5"W. Holotype: MZUSP 125775.

Distribution: 316, 318, 319, 321 (Mathubara, Toledo-Piza, 2020).

Moenkhausia rubra Pastana, Dagosta, 2014

Moenkhausia rubra Pastana, Dagosta, 2014:390, figs. 1–3. Type locality: Brazil, Mato Grosso, município de Sapezal, Pequena Central Hidroelétrica (PCH) Sapezal, rio Juruena, rio Tapajós basin, 13°16'10"S, 59°01'26"W. Holotype: LIRP 8183.

Distribution: 319, 320 (Pastana, Dagosta, 2014; Dagosta, de Pinna, 2019).

Moenkhausia sanctaefilomenae (Steindachner, 1907)

Tetragonopterus sanctaefilomenae Steindachner, 1907c:82. Type locality: Lagune bei Sa. Filomena am Parnahyba. [Brazil]. Syntypes: (several) NMW 57513–15 (5, 7, 2).

Distribution: 324, 325, 327, 344 (Steindachner, 1907c; R. Benine, pers. obs.). Included in molecular analysis by Reia *et al.* (2019).

Moenkhausia schultzi Fernández-Yépez, 1950

Moenkhausia schultzi Fernández-Yépez, 1950b:13, Pl. 2 (fig. 4). Type locality: Río Autana, Venezuela. [Rio Autana, Orinoco river basin, Venezuela]. Holotype: AFY 48166 (probably lost). [No types of *Moenkhausia schultzi* were found during a search by MMF Marinho in the MHNLS fish collection, where part of the personal collection of Agustin Fernández-Yépez (AFY) is now deposited].

Distribution: 308 (Fernández-Yépez, 1950b).

Remarks: Poorly known species only known from the original description.

Moenkhausia shideleri Eigenmann, 1909

Moenkhausia shideleri Eigenmann, 1909a:15. Type locality: Bartica. [Bartica, Essequibo river basin, Guiana]. Holotype: FMNH 52961.

Distribution: 310 (Eigenmann, 1909a).

Remarks: Poorly known species. Examination of the paratypes at BMNH (by MMF Marinho) revealed the presence of a considerable downward curvature at the anterior portion of the lateral line, which is a typical condition of species of *Tetragonopterus*. A taxonomic study is necessary to better understand the identity of *Moenkhausia shideleri*. Redescription in Eigenmann (1917). Identification key in Eigenmann (1917) and Géry (1977).

Moenkhausia simulata (Eigenmann, 1924)

Astyanax simulatus Eigenmann, in Pearson, 1924:41. Type locality: Creek at Puerto Bermedez, Marañon System. [Type locality provided in Eigenmann, Myers (1929): Creek at Puerto Bermedez, Marañon System, Peru]. Syntypes: CAS 62100 (orig. 10, now 6), with other four specimens now at MCZ 31875 (2), USNM 167811 (2). [All syntypes comes from a unique lot, IU 15860].

Distribution: 316 (Eigenmann, Myers, 1929).

Remarks: Species name was first mentioned in passing with short account in Pearson (1924:41). This was later explained by Eigenmann, Myers (1929:523) who provided a more detailed description of the species, with syntypes and type

locality specifications. Planquette *et al.* (1996) equivocally cited *Moenkhausia aff. simulata* for French Guiana. In that publication, the correct identification of the species is *Tetragonopterus rarus* (Zarske, Géry, Isbrücker, 2004).

Moenkhausia sthenosthoma Petrolli, Benine, 2015

Moenkhausia sthenosthoma Petrolli, Benine, 2015:408, figs. 6, 9e–f. Type locality: Rondônia, Madeira, Rio Jaci-Paraná between Porto Velho and Jaci-Paraná; 9°15'23"S, 64°23'13"W. Holotype: MCP 48789.

Distribution: 318, 319, 321 (Petrolli, Benine, 2015).

Moenkhausia surinamensis Géry, 1965

Moenkhausia surinamensis Géry, 1965d:102, fig. 2. Type locality: Browns creek, km 114 from Paramaribo on the Paramaribo–Dam railroad, between Saramacca and Suriname River systems. [Suriname]. Holotype: ZMA 104221.

Distribution: 310, 311 (Géry, 1965d; Planquette *et al.*, 1996).

Moenkhausia takasei Géry, 1964

Moenkhausia takasei Géry, 1964f:13, fig. 1. Type locality: Creek close to Belém do Pará, Rio Guama basin, lower Amazon, Brazil. Holotype: USNM 198136.

Distribution: 323 (Géry, 1964f).

Remarks: Poorly known species. The paratypes from MHNG, which are better preserved, have the upper caudal-fin lobe dark, suggesting this species belongs to the *Moenkhausia lepidura* group (*sensu* Géry, 1992) (MMF Marinho, pers. obs.). A taxonomic study is necessary to understand its identity.

Moenkhausia tergimacula Lucena, Lucena, 1999

Moenkhausia tergimacula Lucena, Lucena, 1999:232, figs. 1–2. Type locality: Brazil: Goiás: Minaçu: rio Tocantins, 3 km downstream of Serra da Mesa dam, 13°50'51"S, 48°16'60"W. Holotype: MCP 20560.

Distribution: 324 (Lucena, Lucena, 1999).

Moenkhausia uirapuru Ohara, Lima, 2015

Moenkhausia uirapuru Ohara, Lima, 2015:160, figs. 1a, 2, 3a. Type locality: Brazil: Mato Grosso: Nova Lacerda: tributary of rio Galera (itself a tributary of rio Guaporé), upstream cascata Uirapuru, rio Madeira basin, 14°25'00"S 59°27'17"W. Holotype: MZUSP 115988.

Distribution: 319 (Ohara, Lima, 2015).

Moenkhausia venerei Petrolli, Azevedo-Santos, Benine, 2016

Moenkhausia venerei Petrolli, Azevedo-Santos, Benine, 2016:160, figs. 1, 2, 5a. Type locality: Brazil, Barra do Garças, Mato Grosso, rio Araguaia, Córrego Grande. 15°44' S, 52°5'W. Holotype: MZUSP 119006.

Distribution: 322 (Petrolli *et al.*, 2016).

Moenkhausia vittata (Castelnau, 1855)

Tetragonopterus vittatus Castelnau, 1855:66, Pl. 33 (fig. 3). Type locality: Bahia. [Brazil. Details provided by Silva, Malabarba, 2016]. Holotype: MNHN 0000–3088. [Type rediscovered by Silva, Malabarba 2016].

Tetragonopterus doceanus Steindachner, 1877:572 [14]. Type locality: Rio Doce. [Brazil]. Syntypes: (several) MNHN 1913–0135 and 0136 (2); NMW 57389 (2), 57591 (2). Redescription in Carvalho *et al.* (2014). Taxonomic status discussed in Silva, Malabarba, 2016.

Distribution: 328 (Carvalho *et al.*, 2014).

Remarks: Taxonomic status of species discussed by Silva, Malabarba, 2016.

Moenkhausia xinguensis (Steindachner, 1882)

Tetragonopterus xinguensis Steindachner, 1882c:178. Type locality: Xingu. [Rio Xingu, Amazon basin, Brazil]. Holotype: NMW 57826.

Distribution: 322* (Valter M. Azevedo-Santos, pers. comun.).

Species inquirendae (Moenkhausia)

Moenkhausia lepidura ocoae Fowler, 1943d:234, fig. 15. Type locality: Rio Ocoá, Rio Meta basin, Colombia. [Río Ocoá, south of Villavicencio, Río Meta basin, Colombia]. Holotype: ANSP 70497.

Remarks: Despite being described as a subspecies of *Moenkhausia lepidura*, *M. lepidura ocoae* has both caudal-fin lobes dark (*vs.* only the upper caudal lobe dark in *M. lepidura*).

Moenkhausia tridentata Holly, 1929:117 [1]. Type locality: Piquirão (Amazonasgebiet). [Piquirão, Amazon River basin]. Holotype: NMW 8947. [Zarske, Géry (2006c) considered *Moenkhausia tridentata* as a valid species based solely on the examination of the holotype. The coloration of the holotype is not well preserved, but a horizontal elongate humeral spot, similar to that of *M. comma*, can be seen. Until a more detailed taxonomic study is done, we prefer to consider it as *Species inquirenda* in *Moenkhausia*, following Lima *et al.* (2003), see also comments by Bogutskaya *et al.*, 2022:47].

MONOTOCHEIRODON Eigenmann, Pearson, 1924 **NA Menezes, P Camelier**

Monotocheiroduon Eigenmann, Pearson, in Pearson, 1924:34. Type species: *Monotocheiroduon pearsoni* Eigenmann, 1924. Type by monotypy. Gender: Masculine.

Monotocheiroduon drilos Menezes, Weitzman, Quagio-Grassiotto, 2013

Monotocheiroduon drilos Menezes, Weitzman, Quagio-Grassiotto, 2013:135, figs. 9–10. Type locality: Sandia, Zona Reservada Tambopata-Candamo, stream Ebehuaeji (empties into Río Candamo), 13°14'56.4"S, 70°00'34.5"W. [Bolivia]. Holotype: MUSM 41541.

Distribution: 318 (Menezes *et al.*, 2013).

Monotocheiroduon kontos Menezes, Weitzman, Quagio-Grassiotto, 2013

Monotocheiroduon kontos Menezes, Weitzman, Quagio-Grassiotto, 2013:139. Type locality: Río Inambari, Sandia, Muspaypampa, 14°14'41"S, 69°25'51"W. [Peru]. Holotype: MUSM 42542.

Distribution: 318 (Menezes *et al.*, 2013).

Monotocheiroduon pearsoni Eigenmann, 1924

Monotocheiroduon pearsoni Eigenmann, in Pearson, 1924:34, fig. 3, Pl. 11 (fig. 1). Type locality: Espia. [Beni river basin, Bolivia]. Syntypes: (10) CAS 59792 (7), UMMZ 66484 (4). Additional original material: CAS 70832 (3), 70833 (now 5), 70835 (2).

Distribution: 318 (Menezes *et al.*, 2013).

NANOCHEIRODON Malabarba, 1998 **FC Jerep, LR Malabarba, J Chuctaya**

Nanochiroidon Malabarba, 1998:210. Type species: *Chirodon insignis* Steindachner, 1880. Type by original designation. Gender: Masculine.

Nanochiroidon insignis (Steindachner, 1880)

Chirodon insignis Steindachner, 1880:74 [22], Pl. 6 (fig. 3). Type locality: Río Cauca, Colombia. [*Chirodon insignis* is listed in section “I - Fishes from Cauca” in Steindachner (1880). The type locality is not cited in the original description section]. Syntypes: (several) NMW 62543–44 (6, 8).

Distribution: 302, 303 (Malabarba, 1998; Malabarba, 2003).

Remarks: Steindachner, 1880:92 cited in the section “Overview of the species known to date from the Magdalena River basin” that *Chirodon insignis* occurs in clear puddles of water on the way from Caceres to Medellin (In klaren Wasserpfützen aut dem Wege von Caceres nach Medellin).

NEMATOBRYCON Eigenmann, 1911**CR Moreira**

Nematobrycon Eigenmann, 1911b:215. Type species: *Nematobrycon palmeri* Eigenmann, 1911. Type by monotypy. Gender: Masculine.

Nematobrycon lacortei Weitzman, Fink, 1971

Nematobrycon lacortei Weitzman, Fink, 1971:59, figs. 1–4. Type locality: Unknown. [Types are aquarium specimens probably from Rio Calima, Colombia]. Holotype: USNM 205594.

Distribution: 301 (Lima *et al.*, 2003).

Nematobrycon palmeri Eigenmann, 1911

Nematobrycon palmeri Eigenmann, 1911b:215. Type locality: Condoto, Rio Condoto and Novita, Rio Tamana, S.W. Colombia. [Río San Juan basin, Condoto, Chocó, Colombia]. Lectotype: BMNH 1910.7.11.196 (1). [Designated by Weitzman, Fink, 1971:68].

Nematobrycon amphioxus Eigenmann, Wilson, in Eigenmann, Henn, Wilson, 1914:13. Type locality: Boca de Raspadura. [Upper Río Atrato, Choco, Colombia]. Holotype: CM 5050 (not received at FMNH).

Distribution: 301 (Lima *et al.*, 2003).

NEMATOCHARAX Weitzman, Menezes, Britski, 1986**P Camelier**

Nematocharax Weitzman, Menezes, Britski, 1986:335. Type species: *Nematocharax venustus* Weitzman, Menezes, Britski, 1986. Type by original designation. Gender: Masculine.

Nematocharax varii Barreto, Silva, Batalha-Filho, Affonso, Zanata, 2018

Nematocharax varii Barreto, Silva, Batalha-Filho, Affonso, Zanata, 2018:1154, figs. 4, 6. Type locality: Brazil, Bahia, upper Contas River basin, Caraguataí, Água Suja

River, at Balneário Rio da Barra, 13°24'14.5"S, 41°38'07.9"W, 529 m elevation.
Holotype: MZUSP 123176.

Distribution: 328 (Barreto, Silva, Batalha-Filho, Affonso, Zanata, 2018).

Nematocharax venustus Weitzman, Menezes, Britski, 1986

Nematocharax venustus Weitzman, Menezes, Britski, 1986:336, figs. 1–4. Type locality: Brazil; Minas Gerais, Município Medina, Rio Jequitinhonha at Itaobim, about 16°40'S, 41°23'W. Holotype: MZUSP 5131.

Nematocharax costai Bragança, Barbosa, Mattos, 2013:4, figs. 1–3. Type locality: Brazil: Estado da Bahia: Município de Iguai: Cambiriba Stream, Balneário Guaira, Contas River basin, 14°36'16"S, 40°06'08"W, altitud 347 m. Holotype: UFRJ 8216. *Nematocharax costai* is synonymized in Menezes *et al.* (2015).

Distribution: 328 (Weitzman *et al.*, 1986; Menezes *et al.*, 2015).

Remarks: Morphological accounts and new distribution data in Menezes *et al.* (2015). Molecular analyzes of some populations available in Barreto *et al.* (2016).

ODONTOSTILBE Cope, 1870

J Chuctaya, LR Malabarba

Odontostilbe Cope, 1870:566. Type species: *Odontostilbe fugitiva* Cope, 1870. Type by monotypy. Gender: Feminine.

Holoshesthes Eigenmann, 1903:144. Type species: *Chirodon pequirá* Steindachner, 1882. Type by original designation. Gender: Feminine.

Holesthes Eigenmann, 1915:83. Type species: *Chirodon pequirá* Steindachner, 1882. Type by being a replacement name. Gender: Feminine. Additional comments: Unjustified emendation of *Holoshesthes* Eigenmann, 1903, therefore taking the same type species.

Lobodeuterodon Fowler, 1945c:100. Type species: *Deuterodon euspilurus* Fowler, 1945. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Deuterodon*.

Odontostilbe avanhandava Chuctaya, Bührnheim, Malabarba, 2018

Odontostilbe avanhandava Chuctaya, Bührnheim, Malabarba, 2018:[8], figs. 7–9. Type locality: Ribeirão da Batalha, farm Batalha (Pedro Quaresma), rio Paranaíba, Paracatu, Minas Gerais State, Brazil, 17°25'25"S, 47°27'11"W. Holotype: LIRP 3239.

Distribution: 344 (Chuctaya *et al.*, 2018).

Odontostilbe dialeptura (Fink, Weitzman, 1974)

Cheirodon dialepturus Fink, Weitzman, 1974:3, figs. 1–5. Type locality: Veraguas Province, Rio San Pedro basin, creek at bridge 12 mi W of Santiago on Road to Sona. [Panama]. Holotype: USNM 208524.

Distribution: 206 (Fink, Weitzman, 1974).

Remarks: The species was excluded from the genus *Odontostilbe* and provisionally kept in "*Odontostilbe*" until further review (Malabarba, Weitzman, 1999; Bührnheim, Malabarba, 2006).

Odontostilbe dierythrura Fowler, 1940

Odontostilbe dierythrura Fowler, 1940b:68, figs.23–24 (pg 64). Type locality: Todos Santos, Rio Chapare, Bolivia. Holotype: ANSP 68915.

Odontostilbe hasemani Fowler, 1940b:89, figs. 49–51 (pg 86). Type locality: Boca Chapare, Rio Chimore, Cochabamba, Bolivia. Holotype: ANSP 69100. Géry (1972) found that the species is phenotypically indistinguishable from *O. dierythrura* Fowler 1940, except for the relative conspicuousness of the caudal spot.

Distribution: 318 (Malabarba, 2003).

Remarks: Synonymy formally proposed by Géry 1977:558 with no explanation about precedence. He serves as first reviser in treating *Odontostilbe dierythrura* as valid over *O. hasemani*.

***Odontostilbe ecuadorensis* Bührnheim, Malabarba, 2006**

Odontostilbe ecuadorensis Bührnheim, Malabarba, 2006:176, 179, figs. 14–18. Type locality: Ecuador, Napo, Santa Cecilia, río Aguatico, 00°06'N 76°51'W. Holotype: ANSP 170608.

Distribution: 313 (Bührnheim, Malabarba, 2006).

***Odontostilbe euspilurus* (Fowler, 1945)**

Deuterodon euspilurus Fowler, 1945c:100, fig. 3. Type locality: Morelia, Rio Caquetá drainage, Colombia. Holotype: ANSP 71679.

Distribution: 313, 318a (Bührnheim, 2006).

Remarks: Incorrectly cited as *Odontostilbe euspilura* (Bührnheim, Malabarba, 2006; Bührnheim, Malabarba, 2007).

***Odontostilbe fugitiva* Cope, 1870**

Odontostilbe fugitiva Cope, 1870:566, fig: pg 566. Type locality: Pebas, Eastern Equador. [Currently Pebas, Loreto, Peru, in the Ampiyacu–Amazonas drainage. Locality of Neotype: Peru, Loreto, Amazon basin, [lower] río Napo drainage, Yuto cocha on right bank of río Mazán, 3°30'53"S, 73°10'05"W]. Neotype: MUSM 27501. [Both Fowler (1943d:232) and Géry (1972c) stated that the type was lost. Neotype designated by Bührnheim, Malabarba (2006)].

Odontostilbe drepanon Fowler, 1913b:529, fig. 7. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. Holotype: ANSP 39210.

Odontostilbe madeirae Fowler, 1913b:527, fig. 6. Type locality: Tributary of Rio Madeira near Porto Velho, Brazil. Holotype: ANSP 39193. Géry (1972c) mentioned that this species was very similar to *O. drepanon* and suggested that both species could be synonyms of *O. fugitiva*. Bührnheim, Malabarba (2006) redescribed *Odontostilbe fugitiva*, concluding that *O. madeirae* is a junior synonym.

Odontostilbe caquetae Fowler, 1943d:230, fig. 13. Type locality: Rio Ortegusa, Florencia, Colombia. Holotype: ANSP 70495.

Distribution: 313, 314, 316, 317, 318, 321 (Bührnheim, Malabarba, 2006; Bührnheim, 2006).

Remarks: Species redescribed by Bührnheim, Malabarba (2006).

***Odontostilbe microcephala* Eigenmann, 1907**

Odontostilbe microcephalus Eigenmann, in Eigenmann, Ogle, 1907:10. Type locality: Rio Pilcomayo, Bolivia. [Koerber, Terán, 2021:138, specified the type locality as former Franciscan mission of “San Francisco Solano”, Villamontes city, Gran Chaco Province, Tarija Department, Bolivia, Pilcomayo River, Paraguay river basin, 21°16'25"S, 63°27'43"W]. Holotype: CAS 59790.

Distribution: 342, 345 (Chuctaya *et al.*, 2018).

Remarks: Species redescribed by Chuctaya *et al.* (2018:12).

Odontostilbe mitoptera (Fink, Weitzman, 1974)

Cheirodon mitopterus Fink, Weitzman, 1974:3, 12, figs 6–7. Type locality: Cocle Province, Rio Cocle del Norte basin, Rio Tucue at junction of river and road between Tucue and Tambo. [Panama]. Holotype: USNM 208539.

Distribution: 209 (Fink, Weitzman, 1974).

Remarks: The species is a Cheirodontinae, and was excluded as a species of the genus *Odontostilbe* and provisionally kept in “*Odontostilbe*” until further review (Malabarba, Weitzman, 1999; Bührnheim, Malabarba, 2006; Jerep, 2011).

Odontostilbe nareuda Bührnheim, Malabarba, 2006

Odontostilbe nareuda Bührnheim, Malabarba, 2006:172, 184, figs 19, 21–22. Type locality: Bolivia, Pando, [río Orthon – río Madeira basin], lake on right bank of río Nareuda, around 3–4 km above mouth of río Tahuamanu. Holotype: CBF 09621.

Distribution: 318 (Bührnheim, Malabarba, 2006).

Odontostilbe pacaasnovos Chuctaya, Ohara, Malabarba, 2020

Odontostilbe pacaasnovos Chuctaya, Ohara, Malabarba, 2020:3, figs. 1–4. Type locality: Brazil, Rondônia, Campo Novo de Rondônia, Madeira basin, upper rio Jaciparaná, Parque Nacional Pacaás Novos, 10°31'32.0"S, 63°58'22.0"W. Holotype: UFRGS 28509.

Distribution: 321 (Chuctaya *et al.*, 2020).

Odontostilbe pao Bührnheim, Malabarba, 2007

Odontostilbe pao Bührnheim, Malabarba, 2007: 5, 16, figs 23–25. Type locality: Venezuela, Cojedes, río Pao at el Caserio, El Pueblito. Holotype: MCNG 54497.

Distribution: 307 (Bührnheim, Malabarba, 2007).

Odontostilbe paraguayensis Eigenmann, Kennedy, 1903

Odontostilbe paraguayensis Eigenmann, Kennedy, 1903:512. Type locality: Asunción. [Paraguay]. Holotype: CAS 59785.

Distribution: 342, 343, 345 (Malabarba, 2003; Miquelarena *et al.*, 2008).

Odontostilbe parecis Bührnheim, Malabarba, 2006

Odontostilbe parecis Bührnheim, Malabarba, 2006:167, 188, figs. 24, 27–28. Type locality: Brazil, Mato Grosso, BR 174, Corredeira Papagaio, [near BR 364, rio Galera, upper rio Guaporé basin]. Holotype: INPA 24885.

Distribution: 319 (Bührnheim, Malabarba, 2006).

Odontostilbe pequira (Steindachner, 1882)

Chirodon pequira Steindachner, 1882c:180. Type locality: Rio Guaporé. [Steindachner (1882a) referred the specimens used in the original description as originated from “Cuyaba” [Cuiabá, Mato Grosso, Brazil]]. Syntypes: (several) NMW 57160 (6), 62633 (4).

Odontostilbe trementinae Eigenmann, Kennedy, 1903:513. Type locality: Arroyo Terementina. [Paraguay]. Holotype: CAS 59787.

Distribution: 332, 333, 343, 345 (Bührnheim, 2006).

Remarks: Detailed description of species in Steindachner (1882a:38). Referred as *Holoshesthes pequira* in Mirande, 2018.

Odontostilbe pulchra (Gill, 1858)

Poecilurichthys pulcher Gill, 1858:419. Type locality: Not given. [Western portion

of Trinidad (type locality defined after an extensive review of Bührnheim, Malabarba, 2007)]. Syntypes: MNHN 0000-9593 (2). [Syntype defined after an extensive review by Bührnheim, Malabarba (2007)].

Distribution: 304, 306, 307, 308, 309 (Bührnheim, Malabarba, 2007).

Remarks: Redescription of species in Bührnheim, Malabarba (2007).

***Odontostilbe roloffi* Géry, 1972**

Odontostilbe roloffi Géry, 1972b:69, fig 20, Pl. V. (figs. 1–2). Type locality: ruisseau près de Puerto Napo, haut rio Napo. [Ecuador]. Holotype: ZMH H1482.

Distribution: 313 (Malabarba, 2003).

Remarks: Bührnheim, Malabarba (2006) briefly mention *O. euspilura* (Fowler, 1945) as a senior synonym of *O. roloffi* Géry, 1972b, however the authors did not officially validate the synonymy.

***Odontostilbe splendida* Bührnheim, Malabarba, 2007**

Odontostilbe splendida Bührnheim, Malabarba, 2007: 5, 11, figs 12, 19–20. Type locality: Colombia, Meta, río Negrito at bridge at La Balsa, Meta drainage. Holotype: ANSP 181040.

Distribution: 307 (Bührnheim, Malabarba, 2007).

***Odontostilbe weitzmani* Chuctaya, Bührnheim, Malabarba, 2018**

Odontostilbe weitzmani Chuctaya, Bührnheim, Malabarba, 2018:[3], figs. 1–5. Type locality: Brazil, Itirapina, São Paulo State. Lapa stream near the mouth and along the seawall of rock and the bridge on the road, 22°22'35.5"S, 47°46'55.6"W. Holotype: MZUSP 121648.

Distribution: 344 (Chuctaya *et al.*, 2018).

OLIGOBRYCON Eigenmann, 1915

MMF Marinho

Oligobrycon Eigenmann, 1915:57. Type species: *Oligobrycon microstomus* Eigenmann, 1915. Type by original designation. Gender: Masculine.

***Oligobrycon microstomus* Eigenmann, 1915**

Oligobrycon microstomus Eigenmann, 1915:57, fig. 17, Pl. 9 (fig. 1). Type locality: Jacarehy, Rio Paraíba. [Rio Paraíba do Sul at Jacareí, State of São Paulo, Brazil]. Holotype: FMNH 57913.

Distribution: 329 (Eigenmann, 1915).

OLIGOSARCUS Günther, 1864

NA Menezes, P Camelier

Oligosarcus Günther, 1864:353. Type species: *Oligosarcus argenteus* Günther, 1864. Type by monotypy. Gender: Masculine.

Acestorhamphus Eigenmann, Kennedy, 1903:527. Type species: *Hydrocyon hepsetus* Cuvier, 1829. Type by monotypy. Gender: Masculine.

Paroligosarcus Amaral Campos, Trewavas, 1949:157. Type species: *Oligosarcus pintoi* Amaral Campos, 1945. Type by monotypy. Gender: Masculine.

***Oligosarcus acutirostris* Menezes, 1987**

Oligosarcus acutirostris Menezes, 1987a:15, fig. 3. Type locality: Rio Itapemirim,

Fazenda Boa Esperança, entre Pacotuba e Coutinho, Espírito Santo, aproximadamente 21°S, 41°W. [Brazil]. Holotype: MZUSP 37525.

Distribution: 328 (Menezes, 1987a).

Oligosarcus amome Almirón, Casciotta, Piálek, Doubnerová, Rícan, 2015

Oligosarcus amome Almirón, Casciotta, Piálek, Doubnerová, Rícan, 2015:582, figs. 1–4. Type locality: Argentina: Misiones Province: río Uruguay basin, arroyo Oveja Negra, tributary of Arroyo Yabotí-Guazú, 27°08'15.5"S, 53°55'28.8"W. Holotype: MLP 10679.

Distribution: 332 (Almirón *et al.*, 2015).

Remarks: Status of species discussed by Ribeiro, Menezes (2015:41).

Oligosarcus argenteus Günther, 1864

Oligosarcus argenteus Günther, 1864:353. Type locality: Brazil. [Details about type locality discussed in Menezes, 1987a:23]. Syntypes: BMNH 1967.1.24.1–2 (2).

Oligosarcus meadi Menezes, 1969:31, 117, fig. 21. Type locality: União de Caeté, Minas Gerais, Río das Velhas basin. [Brazil]. Holotype: MZUSP 4618.

Distribution: 327, 328 (Menezes, 1987a).

Oligosarcus bolivianus (Fowler, 1940)

Acestrorhamphus bolivianus Fowler, 1940b:53, figs. 7–8. Type locality: Río Lipeo, Bolivia. [Tributary of Río Bermejo, Depto. Tarija]. Holotype: ANSP 68814.

Distribution: 319, 342 (Menezes, 1987a).

Oligosarcus brevioris Menezes, 1987

Oligosarcus brevioris Menezes, 1987a:10, fig. 2. Type locality: Arroio Cachoeirinha, bacia do Rio Pelotas, estrada Vacaria-Bom Jesus, município de Vacaria, Rio Grande do Sul, aproximadamente 28°40'S, 50°40'W. [Brazil]. Holotype: MZUSP 37508.

Distribution: 333 (Menezes, 1987a).

Oligosarcus hepsetus (Cuvier, 1829)

Hydrocyon hepsetus Cuvier, 1829:312. Type locality: Not given. No types known.

Distribution: 329, 330, 331, 352 (Menezes, 1987a).

Oligosarcus itau Mirande, Aguilera, Azpelicueta, 2011

Oligosarcus itau Mirande, Aguilera, Azpelicueta, 2011:4, figs. 1–6. Type locality: Argentina, Salta, General San Martín, Río Bermejo basin, small tributary to Río Itau, near Campo Largo, 22°01'34"S, 63°56'06"W, 690 m a.s.l. Holotype: CI-FML 3856.

Distribution: 340 (Mirande *et al.*, 2011).

Remarks: Status of species discussed by Ribeiro, Menezes (2015:41).

Oligosarcus jacuiensis Menezes, Ribeiro, 2010

Oligosarcus jacuiensis Menezes, Ribeiro, 2010:650, figs. 1–2a. Type locality: Brazil, Rio Grande do Sul, Estrela Velha, rio Jacuí, 29°15'46"S, 53°14'05"W. Holotype: MCP 28980.

Distribution: 332, 333, 334 (Menezes, Ribeiro, 2010).

Oligosarcus jenynsii (Günther, 1864)

Xiphorhamphus jenynsii Günther, 1864:356. Type locality: Freshwater Lake of Maldonado. [Uruguay]. Holotype: UMZC [Darwin no. 661] whereabouts unknown.

Xiphorhamphus brachycephalus Cope, 1894a:84, Pl. 4. Type locality: Rio Grande

- do Sul. [Brazil]. Lectotype: ANSP 21728. [Designated by Fowler (1907:460). Treated as holotype by Böhlke (1984:44)].
- Acestrorhamphus purpureus* Messner, 1962:1, fig. unnumbered pg. 3. Type locality: R. Olimar, cerca de la desembocadura del A. de las Piedras. [Uruguay]. Holotype: MHNM CI 79.
- Distribution: 332, 334, 335, 345, 347 (Menezes, 1987a).
- Oligosarcus longirostris*** Menezes, Géry, 1983
- Oligosarcus longirostris* Menezes, Géry, 1983:576, fig. 4. Type locality: Rio Iguaçu (Paraná basin) at Porto Lupion, State of Paraná, Brazil. Holotype: MZUSP 25841.
- Distribution: 344 (Menezes, 1987a).
- Oligosarcus macrolepis*** (Steindachner, 1877)
- Xiphorhamphus macrolepis* Steindachner, 1877:594 [36]. Type locality: Rio Jequitinhonha, Brazil. Syntypes: (several) not yet found at NMW.
- Distribution: 328 (Menezes, 1987a).
- Oligosarcus menezesi*** Miquelarena, Protogino, 1996
- Oligosarcus menezesi* Miquelarena, Protogino, 1996:112, figure. Type locality: Upper Urugua-í creek, upper Río Paraná system, Misiones, Argentina. Holotype: CFA-IC 10299. [Bogan *et al.*, 2019:15].
- Distribution: 344 (Miquelarena, Protogino, 1996).
- Oligosarcus oligolepis*** (Steindachner, 1867)
- Xiphoramphus oligolepis* Steindachner, 1867:339 [33]. Type locality: Río de la Plata, Argentina. Holotype: NMW.
- Distribution: 332, 333, 343, 345, 347 (Menezes, 1987).
- Oligosarcus paranensis*** Menezes, Géry, 1983
- Oligosarcus paranensis* Menezes, Géry, 1983:572, fig. 3. Type locality: Represa de Salesópolis (Tietê River system), State of São Paulo State, Brazil. Holotype: MZUSP 25721.
- Distribution: 344 (Menezes, 1987a).
- Oligosarcus perdido*** Ribeiro, Cavallaro, Froehlich, 2007
- Oligosarcus perdido* Ribeiro, Cavallaro, Froehlich, 2007:44, figs. 1–4. Type locality: Bridge over Rio Perdido, Harmonia farm, Munic. area of Porto Murtinho, Mato Grosso do Sul, Brazil, 21° 17'07"S, 56° 41'45"W. Holotype: MZUSP 94691.
- Distribution: 343 (Ribeiro *et al.*, 2007).
- Oligosarcus pintoii*** Amaral Campos, 1945
- Oligosarcus pintoii* Amaral Campos, 1945a:456, fig. 9. Type locality: Rio Mogi Guaçu, São Paulo State, Brazil. Holotype: MZUSP 3465.
- Hemibrycon marciae* Godoy, 1971:155, figs. 1–4. Type locality: Tanque da EEPB-Pirassununga (SP), bacia do Rio Mogi Guassu. [Brazil]. Holotype: EEBP 710 [probably lost, see Sabaj, 2020 for comments on EEBP collection].
- Distribution: 319, 343 (Ribeiro, Menezes, 2015).
- Oligosarcus planaltinae*** Menezes, Géry, 1983
- Oligosarcus planaltinae* Menezes, Géry, 1983:564, fig. 1. Type locality: Córrego Planaltina, a tributary of Rio São Bartolomeu (Paraná river system), near Brasília, State of Goiás, Brazil. Holotype: MZUSP 25718.
- Distribution: 344 (Menezes, 1987a).
- Oligosarcus platensis*** (Messner, 1962)

Astyanacinus platensis Messner, 1962:5. Type locality: Laguna Piedra del Toro (L.del Cisne o L.Tropa vieja). [Uruguay]. Holotype: MHNM CI 762.

Distribution: 347 (Messner, 1962).

Remarks: Status of species discussed by Ribeiro, Menezes (2015:41).

Oligosarcus robustus Menezes, 1969

Oligosarcus robustus Menezes, 1969:26, 116, fig. 18. Type locality: Rio Caí in Montenegro, Rio Grande do Sul, Brazil (Guaíba River basin). Holotype: MZUSP 4917.

Distribution: 334, 335 (Menezes, 1987a).

Oligosarcus schindleri Menezes, Géry, 1983

Oligosarcus schindleri Menezes, Géry, 1983:566, fig. 2. Type locality: San Francisco de Chipiriri in a small tributary of the Rio Chapare (Rio Madeira basin) about 100 km east of Cochabamba, Bolivia. [Neumann (2011:246) noted that the type locality as given on the lot label of the holotype is: “Lago Zischka, Rio Chipiriri/Chapare (Bolivia)”, and that the sawmill of family Zischka was situated in or near San Francisco de Chipiriri at Rio Chipiriri]. Holotype: ZSM 26095.

Distribution: 318 (Menezes, 1987a).

Oligosarcus solitarius Menezes, 1987

Oligosarcus solitarius Menezes, 1987a:6, fig. 1. Type locality: Lagoa Carioca, Vale do Rio Doce, Minas Gerais (aproximadamente 20°S, 43°W, Brazil). Holotype: MZUSP 37377.

Distribution: 328 (Menezes, 1987a).

Oligosarcus varii Menezes, Ribeiro, 2015

Oligosarcus varii Menezes, Ribeiro, 2015:541, fig.1. Type locality: Brazil, Rio Grande do Sul, São Marcos, rio Jacuí basin, rio São Marcos near to hydroelectric plant PCH rio São Marcos, 29°02'13”S, 51°05'39”W. Holotype: MCP 31148.

Distribution: 334 (Menezes, Ribeiro, 2015).

Species inquirenda (Oligosarcus)

Xiphorhamphus pericoptes Müller, Troschel, 1844:93. Type locality: Hab. In Brasilia. [Brazil]. [Holotype originally at ZMB, and considered lost for decades (Menezes, 1987a:32), but rediscovered according to Zarske (2012:342)].

Remarks: Either a synonym of *Oligosarcus hepsetus* or *Oligosarcus robustus* (Menezes, 1987a:32).

ORTHOSPINUS Reis, 1989

RE Reis

Buritia Brant, 1974:148. Type species: *Buritia cisalpinoi* Brant, 1974. Type by original designation. Gender: Feminine. Additional comments: Preoccupied in Insecta, replaced by *Orthospinus* Reis, 1989.

Orthospinus Reis, 1989:42. Type species: *Buritia cisalpinoi* Brant, 1974. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Buritia* Brant, 1974, preoccupied in Insecta.

Orthospinus franciscensis (Eigenmann, 1914)

Fowlerina franciscensis Eigenmann, 1914b:45. Type locality: Barreiras, Lagoas of Rio Grande. [Brazil]. Holotype: FMNH 56426.

Ephippicharax franciscoensis Eigenmann, in Eigenmann, Myers, 1929:506, Pl. 70 (figs. 3, 5). Type locality: Barreiras, Lagoas of Rio Grande. [Brazil]. Holotype: FMNH 56426.

Buritia cisalpinoi Brant, 1974:148, figure unnumbered. Type locality: Barra do Pimenta, Faz. Buruti do Meio, Rio São Francisco, Pompeu, MG. Holotype: MHNI 141.

Distribution: 327 (Reis, 1989).

OTHONOCHEIRODUS Myers, 1927

P Camelier

Othonocheirodus Myers, 1927:113. Type species: *Othonocheirodus eigenmanni* Myers, 1927. Type by original designation. Gender: Masculine.

Othonocheirodus eigenmanni Myers, 1927

Othonocheirodus eigenmanni Myers, 1927:114. Type locality: Peru: Rio Cayumba. [The type locality given in the original description was corrected by Myers (1934): “Cayumba Rapids of the Rio Huallaga”]. Holotype: IU 17674 (not at CAS in 1996).

Distribution: 312 (Myers, 1927; Myers, 1934).

OXYBRYCON Géry, 1964

MMF Marinho

Oxybrycon Géry, 1964b:15. Type species: *Oxybrycon parvulus* Géry, 1964. Type by original designation. Gender: Masculine.

Oxybrycon parvulus Géry, 1964

Oxybrycon parvulus Géry, 1964b:16, fig. 12–13. Type locality: Petit ruisseau faisant communiquer le “Zapote Chocha” avec le “Caño Hyarina”, en bordure du Rio Pacaya, affluent du canal de Puinahua (bras du bas Rio Ucayali). [Small creek connecting “Zapote Cocha” and “Caño Yarina”, on edge of Rio Pacaya, tributary of Canal of Puinahua, tributary of lower Río Ucayali, Peru]. Holotype: ZFMK 1331.

Distribution: 316 (Géry, 1964b).

PARACHEIRODON Géry, 1960

MMF Marinho

Lamprocheirodon Géry, 1960d:13. Type species: *Cheirodon axelrodi* Schultz, 1956. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Cheirodon* Girard, 1855.

Paracheirodon Géry, 1960d:12. Type species: *Hyphessobrycon innesi* Myers, 1936. Type by original designation. Gender: Masculine.

Remarks: Weitzman, Fink (1983:353) proposed *Lamprocheirodon* Géry as a junior synonym of *Paracheirodon* Géry, and thus acted as first revisers in establishing priority.

Paracheiroduon axelrodi (Schultz, 1956)

Cheirodon axelrodi Schultz, 1956:42, unnumbered fig. (p. 41). Type locality: Porto Velho, Brazil. [The type locality given in the original description was corrected by Weitzman, Fink (1983): “stream near Tomar (= Thomar) (0° 25’S, 63° 55’W), rio Negro, Amazonas, Brasil”]. Holotype: USNM 164483.

Hyphessobrycon cardinalis Myers, Weitzman, 1956:1. Type locality: Rio Negro, Amazonas, Brasil. [Type locality specified by Weitzman, Fink (1983):389 “stream near Tomar (= Thomar) (0° 25’S, 63° 55’W), rio Negro, Amazonas, Brasil”]. Holotype: SU 48710. Taxonomic information in Weitzman, Fink (1985).

Distribution: 307, 314 (Weitzman, Fink, 1983).

Remarks: Date of publication of *Paracheiroduon axelrodi* is Feb. 20 and precedes that of *Hyphessobrycon cardinalis* (Feb. 21). Redescription and systematic accounts in Weitzman, Fink (1983).

Paracheiroduon innesi (Myers, 1936)

Hyphessobrycon innesi Myers, 1936:97. Type locality: Likely near Iquitos, Peruvian Amazon. [Type material was collected by aquarist said to be from the Peruvian Amazon, near Iquitos (Myers, 1936)]. Holotype: USNM 102109.

Distribution: 316 (Weitzman, Fink, 1983).

Remarks: The species occurs in the upper Amazon basin in Peru, Colômbia and Brasil. Redescription and systematic accounts in Weitzman, Fink (1983).

Paracheiroduon simulans (Géry, 1963)

Hyphessobrycon simulans Géry, 1963d:15, figs. 1–3. Type locality: Rio Purus. [The type locality given in the original description was corrected by Géry (1966b): “rio Jufaris (or Tupari)[= rio Jufari] which empties into the rio Negro just above the rio Branco”. Holotype: MHNG 2171.19. [More information in Weber (1998) and Vari, Howe (1991)].

Distribution: 307, 314 (Weitzman, Fink, 1983).

Remarks: Redescription and systematic accounts in Weitzman, Fink (1983).

PARAGONIATES Steindachner, 1876

CR Moreira

Paragoniates Steindachner, 1876c:117. Type species: *Paragoniates alburnus* Steindachner, 1876. Type by subsequent designation [Designated by Eigenmann (1910:441)]. Gender: Masculine.

Paragoniates alburnus Steindachner, 1876

Paragoniates alburnus Steindachner, 1876c:117 [69], Pl. 8 (fig. 3). Type locality: Amazonenstrom bei Teffé. [Tefé, Amazonas, Brazil]. Holotype: NMW 73544.

Distribution: 307a, 309a, 316a, 318, 319, 321 (Quevedo, 2007, Dagosta, de Pinna, 2019).

PARAPRISTELLA Géry, 1964

FCT Lima

Parapristella Géry, 1964c:41. Type species: *Pristella aubynei* Eigenmann, 1909. Type by original designation. Gender: Feminine.

Parapristella aubynei (Eigenmann, 1909)

Pristella aubynei Eigenmann, 1909a:24. Type locality: Lama Stop-off. [Guyana, Demerara-Mahaica, a tributary of Mahaica River, ca. 6°32'N, 51°1'W].
Holotype: FMNH 52698.

Distribution: 310 (Eigenmann, 1912a).

Parapristella georgiae Géry, 1964

Parapristella georgiae Géry, 1964c:44, figs. 9–10. Type locality: about 200 miles east of Bogota, Colombia, in the upper Rio Meta drainage. [Depto. Meta]. Holotype: USNM 198641.

Distribution: 307, 314, 315 (Géry, 1964c; Taphorn, 1992; Ferreira *et al.*, 2007).

PARASTREMMMA Eigenmann, 1912**RE Reis**

Parastremma Eigenmann, 1912b:20. Type species: *Parastremma sadina* Eigenmann, 1912. Type by monotypy. Gender: Neuter.

Parastremma album Dahl, 1960

Parastremma alba Dahl, 1960b:475, fig.: pg 476. Type locality: Río Sandó, Baudó. [Colombia]. Holotype: ICN-MHN 147. [Mojica, Agudelo-Zamora (2018:19)].

Distribution: 301 (Cardoso, 2003).

Parastremma pulchrum Dahl, 1960

Parastremma pulchra Dahl, 1960b:472, fig.: pg 473. Type locality: Becordó, Rio San Juan. [Colombia]. Holotype: ICN-MHN 204.

Distribution: 301 (Cardoso, 2003).

Parastremma sadina Eigenmann, 1912

Parastremma sadina Eigenmann, 1912b:20. Type locality: Istmina. [Colombia].
Holotype: FMNH 56022.

Distribution: 301 (Cardoso, 2003).

PARECBASIS Eigenmann, 1914**MMF Marinho**

Parecbasis Eigenmann, 1914b:45. Type species: *Parecbasis cyclolepis* Eigenmann, 1914. Type by monotypy. Gender: Feminine.

Parecbasis cyclolepis Eigenmann, 1914

Parecbasis cyclolepis Eigenmann, 1914b:45. Type locality: San Antonio, de Rio Madeira. [Santo Antônio, rio Madeira, rio Amazonas basin, Rondônia, Brazil].
Holotype: FMNH 56677.

Distribution: 316, 318 (Eigenmann, 1914b; Lima *et al.*, 2013).

PETITELLA Géry, Boutière, 1964**FCT Lima**

Petitella Géry, Boutière, 1964:474. Type species: *Petitella georgiae* Géry, Boutière, 1964. Type by original designation. Gender: Feminine.

Petitella bleheri (Géry, Mahnert, 1986)

Hemigrammus bleheri Géry, Mahnert, 1986:41, figure. Type locality: Middle Rio Negro basin, Brazil, probably near Rio Jufaris. [Rio Jufaris is a tributary of the rio Negro, at the border between Amazonas and Roraima states (mouth at ca. 1°12'S, 61°59'W)]. Holotype: MZUSP 37369.

Distribution: 307, 314 (Géry, Mahnert, 1986; Taphorn, 1992).

Remarks: Comments on the species in Taphorn (1992:224–225, as *H. Rhodostomus*). Transfer to *Petitella* proposed by Bittencourt *et al.*, 2020.

Petitella georgiae Géry, Boutière, 1964

Petitella georgiae Géry, Boutière, 1964:474, fig. 1. Type locality: village de Lagunas, bas Rio Huallaga, Loreto District, Pérou. [Peru, Depto. Loreto, approximately 5°13'00"S, 75°40'10"W]. Holotype: MHNG 2150.28.

Distribution: 307, 316, 318, 321, 314, (Géry, Mahnert, 1986; Lima *et al.*, 2013).

Remarks: See comments on the species in Lima *et al.* (2013:332–333).

Petitella rhodostoma (Ahl, 1924)

Hemigrammus rhodostomus Ahl, 1924b:405, fig. Type locality: Umgebung von Para. [Brazil, Pará (exact locality uncertain but very likely lower Amazon)]. Lectotype: ZMB 22626 [apparently not 22616]. [Designated by Zarske, Géry, 1995.

Distribution: 323 (Géry, Mahnert, 1986).

Remarks: Comments on the species in Géry, Mahnert (1986). Transfer to *Petitella* proposed by Bittencourt *et al.*, 2020.

PHALLOBRYCON Menezes, Ferreira, Netto-Ferreira, 2009

P Camelier

Phallobrycon Menezes, Ferreira, Netto-Ferreira, 2009:48. Type species: *Phallobrycon adenacanthus* Menezes, Ferreira, Netto-Ferreira, 2009. Type by original designation. Gender: Masculine.

Phallobrycon adenacanthus Menezes, Ferreira, Netto-Ferreira, 2009

Phallobrycon adenacanthus Menezes, Ferreira, Netto-Ferreira, 2009:54, figs.1–9. Type locality: Brazil, Mato Grosso: Campinápolis, rapids in rio Culuene, rio Xingu basin, 13°49'S, 53°15'W. Holotype: MZUSP 98892.

Distribution: 322 (Menezes *et al.*, 2009).

Remarks: Morphometric data for the type series is presented in Netto-Ferreira *et al.* (2016).

Phallobrycon synarmacanthus Netto-Ferreira, Bastos, Sousa, Menezes, 2016

Phallobrycon synarmacanthus Netto-Ferreira, Bastos, Sousa, Menezes, 2016:257, figs. 1–3. Type locality: Brazil: Pará: Senador José Porfírio, rio Bacajá, 3°53'40"S, 51°43'28"W. [Rio Bacajá is a right bank affluent of the rio Xingu near Volta Grande, near the Belo Monte Village (Netto-Ferreira *et al.*, 2016)]. Holotype: MZUSP 118815.

Distribution: 322 (Netto-Ferreira *et al.*, 2016).

PHENACOBRYCON Eigenmann, 1922

NA Menezes, P Camelier

Phenacobrycon Eigenmann, 1922:147. Type species: *Bryconamericus henni* Eigenmann, 1914. Type by original designation. Gender: Masculine.

Phenacobrycon henni (Eigenmann, 1914)

Bryconamericus henni Eigenmann, in Eigenmann, Henn, Wilson, 1914:6. Type locality: Vinces, Ecuador. Holotype: FMNH 56594.
Distribution: 301 (Eigenmann in Eigenmann *et al.*, 1914).

PHENACOGASTER Eigenmann, 1907**ZMS Lucena**

Phenacogaster Eigenmann, 1907:769. Type species: *Tetragonopterus pectinatus* Cope, 1870. Type by original designation. Gender: Feminine.

Vesicatrus Eigenmann, 1911c:174. Type species: *Vesicatrus tegatus* Eigenmann, 1911. Type by original designation. Gender: Masculine.

Grammabrycon Fowler, 1941b:190. Type species: *Grammabrycon calverti* Fowler, 1941. Type by original designation. Gender: Masculine.

Phenacogaster apletostigma Lucena, Gama, 2007

Phenacogaster apletostigma Lucena, Gama, 2007:152, figs. 1–2. Type locality: Brasil, Amapá: canal principal do rio Santo Antônio, sistema do rio Araguari, município de Porto Grande, 01°06'04.38"N, 51°53'36.74"W [Brazil]. Holotype: IEPA 2488.

Distribution: 323 (Lucena, Gama, 2007).

Phenacogaster beni Eigenmann, 1911

Phenacogaster beni Eigenmann, 1911c:174, Pl. 6 (fig. 4). Type locality: Villa Bella, Rio Beni. [Villa Bella, Bolivia, Rio Beni, into Rio Madeira (Locality where Haseman collected the holotype, in Eigenmann (1911a:311))]. Holotype: FMNH 54597.

Distribution: 318, 319 (Eigenmann, 1911c).

Remarks: The species is still not satisfactorily diagnosed so the distribution is based on the localities of the type material.

Phenacogaster calverti (Fowler, 1941)

Grammabrycon calverti Fowler, 1941b:190, figs. 99–100. Type locality: Forteleza, Ceará. Holotype : ANSP 69606.

Distribution: 325, 326 (Lucena, Malabarba, 2010).

Phenacogaster capitulata Lucena, Malabarba, 2010

Phenacogaster capitulatus Lucena, Malabarba, 2010:266, fig. 2. Type locality: Peru, Ucayali: Rio Neshuya (sistema do Rio Ucayali, Coronel Portillo). Holotype: MUSM 20424.

Distribution: 316 (Lucena, Malabarba, 2010).

Phenacogaster carteri (Norman, 1934)

Vesicatrus carteri Norman, 1934:336, figs. A–C. Type locality: from a forest stream tributary to the Cuyuni River. Holotype: BMNH 1934.9.12:216.

Distribution: 308, 310 (Lucena, Malabarba, 2010).

Phenacogaster eurytaenia Lucena, Antonetti, Lucena, 2018

Phenacogaster eurytaenia Lucena, Antonetti, Lucena, in Antonetti, Lucena, Lucena, 2018:272, figs. 1–2. Type locality: Brazil, Goiás State, Campinaçu, rio Tocantins: downstream of Usina Hidrelétrica de Serra da Mesa, 13°50'55"S, 48°15'45"W (Funai station). Holotype: MZUSP 119015.

Distribution: 324 (Antonetti, Lucena, Lucena, 2018).

Phenacogaster franciscoensis Eigenmann, 1911

Phenacogaster franciscoensis Eigenmann, 1911c:173, Pl. 6 (fig. 3). Type locality: Boqueiras, near mouth of Rio Porto. [Malabarba, Lucena (1995:338) cited the type locality as: “Boqueirão, near mouth of rio Preto in the label; Boqueirão, rio Grande, rio São Francisco drainage according to the localities of collection of Haseman Expedition...”]. Holotype: FMNH 54599.

Distribution: 324, 327, 328 (Lucena, Malabarba, 2010; Antonetti, Lucena, Lucena, 2018).

Phenacogaster jancupa Malabarba, Lucena, 1995

Phenacogaster jancupa Malabarba, Lucena, 1995:339, fig. 1. Type locality: Brazil: Mato Grosso: Jangada, ribeirão Espinheiro, crossing road BR 364 (from Cuiabá to Jangada), 21 km South of Jangada, rio Cuiabá drainage, 15°24'S, 56°23'W. Holotype: MCP 17279.

Distribution: 343 (Lucena, Malabarba, 2010).

Phenacogaster julliae Lucena, Lucena, 2019

Phenacogaster julliae Lucena, Lucena, 2019:1, figs. 1–3. Type locality: Brazil, Bahia, Campo Formoso, rio Salitre, on the road to Lage, ca. 40 km east of Lage, Poços de Doce, rio São Francisco drainage, approx. 10°01'S, 40°42'W. Holotype: MZUSP 123642.

Distribution: 327 (Lucena, Lucena, 2019).

Phenacogaster maculoblonga Lucena, Malabarba, 2010

Phenacogaster maculoblongus Lucena, Malabarba, 2010:268, fig. 4. Type locality: Venezuela, Bolivar: Caño Caballepe (1 km de Tumeremo, sistema do rio Cuyuni, 07°17'N, 61°30'W. Holotype: MBUCV-V-30230.

Distribution: 307, 308, 309, 310 (Lucena, Malabarba, 2010).

Phenacogaster megalosticta Eigenmann, 1909

Phenacogaster megalostictus Eigenmann, 1909a:28. Type locality: Tumatumari, Lower Potaro River. [Guyana]. Holotype: FMNH 53530. [The holotype was figured in Eigenmann (1912a, plate LIII, fig. 3) and Eigenmann (1927, plate 56, fig. 2). Number of holotype is incorrect in the legend in Eigenmann (1912a)].

Distribution: 310 (Lucena, Malabarba, 2010).

Phenacogaster microsticta Eigenmann, 1909

Phenacogaster microstictus Eigenmann, 1909a:30. Type locality: Tumatumari, Lower Potaro. [Guyana]. Holotype: FMNH 52970. [The holotype was figured in Eigenmann (1912a, plate LIII, fig. 4) and Eigenmann (1927, plate 56, fig. 1)].

Distribution: 310.

Phenacogaster naevata Antonetti, Lucena, Lucena, 2018

Phenacogaster naevata Antonetti, Lucena, Lucena, 2018:275, figs. 4–6. Type locality: Rio das Éguas, rio Tocantins drainage, Porto Nacional, Tocantins State, Brazil, approximately 10°43'S, 48°25'W. Holotype: MCP 49466.

Distribution: 324 (Antonetti, Lucena, Lucena, 2018).

Phenacogaster napoatilis Lucena, Malabarba, 2010

Phenacogaster napoatilis Lucena, Malabarba, 2010:272, fig. 5. Type locality: Ecuador, Napo: Rio Napo e afluentes (próximo a Coca, 0°28'S, 76°56'W). [Brazil]. Holotype: MCZ 51485.

Distribution: 313, 316 (Lucena, Malabarba, 2010).

Phenacogaster ojitata Lucena, Malabarba, 2010

Phenacogaster ojitatus Lucena, Malabarba, 2010:275, fig. 6. Type locality: Brasil, Pará: Rio Curuá (Serra do Cachimbo). [Brazil]. Holotype: MZUSP 30551.

Distribution: 322 (Lucena, Malabarba, 2010).

Phenacogaster pectinata (Cope, 1870)

Tetragonopterus pectinatus Cope, 1870:560. Type locality: From Pebas, Equador. [currently, Peru]. Holotype: ANSP 8090. [fig. 30 in Fowler (1906) according to Böhlke (1984: 52). Specimen in very poor condition (LR Malabarba, pers. comm.)].

Tetragonopterus Tabatingae Steindachner, 1876c:91 [43]. Type locality: Amazonenstrom bei Tabatinga. [Brazil]. Syntypes: (several) whereabouts unknown.

Tetragonopterus Bairdii Steindachner, 1882c:179. Type locality: Tabatinga. [Brazil]. Syntypes: NMW 57250 (3). [The description of the species was detailed in Steindachner (1882a:35)].

Distribution: 316.

Remarks: *Phenacogaster pectinata* is still not satisfactorily diagnosed so the distribution is based on its type-locality and on the types-localities of its synonyms *P. bairdii* and *P. tabatingae*.

Phenacogaster prolata Lucena, Malabarba, 2010

Phenacogaster prolatus Lucena, Malabarba, 2010:277, figs. 7–8. Type locality: Venezuela: Amazonas: pequeno afluente do Caño Urami (próximo a Santa Lucia, depto. Río Negro, 01° 17'N, 66° 51'W). Holotype: MBUCV-V-33242.

Distribution: 307, 308, 314 (Lucena, Malabarba, 2010).

Phenacogaster retropinnus Lucena, Malabarba, 2010

Phenacogaster retropinnus Lucena, Malabarba, 2010:280, fig. 10. Type locality: Brasil, Mato Grosso: Rio Aripuanã (3 km abaixo da cachoeira Dardanelos, sistema do rio Madeira). [Brazil]. Holotype: INPA 31367.

Distribution: 314, 321, 322, 324 (Lucena, Malabarba (2010); Antonetti, Lucena, Lucena, 2018).

Phenacogaster simulata Lucena, Malabarba, 2010

Phenacogaster simulatus Lucena, Malabarba, 2010:283, fig. 11. Type locality: Guiana, Potaro-Siparuni: Tukeit Falls (Rio Potaro, Mahdia 05° 12'18"N, 59° 26'55"W). Holotype: ROM 72774.

Distribution: 310 (Lucena, Malabarba, 2010).

Phenacogaster suborbitalis Ahl, 1936

Phenacogaster suborbitalis Ahl, 1936:24. Type locality: Ostküste Brasiliens. [Brazil]. Holotype: ZMB 20806. [Figure of the holotype in Zarske, Géry (1995, fig. 12)].

Distribution: 323 (H. J. Paepke, pers. comm.).

Remarks: *Phenacogaster suborbitalis* was described from a specimen donated by Johannes Paul Arnold. According to correspondences sent by Hans-Joachim Paepke (former curator of the fish collection of the Museum für Naturkunde Berlin), Arnold was a great German aquarium hobbyist and received the specimen from an importer, but both the importer and the precise locality of the specimen are unknown. Hans-Joachim Paepke further informed that Arthur Rachow, in a report titled "*Phenacogaster suborbitalis* E. Ahl", mentioned the

locality of the species as Eastern Brazil, in small coastal-streams between the states of Pernambuco and Maceió, but Rachow did not provide the source of the information. Until now, no species of *Phenacogaster* was found in the area mentioned by Rachow. Two species could be considered as occurring in the “east coast of Brazil”, *P. calverti* from coastal rivers in the northeast and *P. franciscoensis* from Rio São Francisco and Rio Paraguaçu basins. However, they differ from the holotype of *P. suborbitalis* in several characters. Specimens similar to the holotype of *P. suborbitalis* were found in northern Brazil (Rio Guamá drainage) and based on that Lucena *et al.* (2007) cited the distribution of the species in streams near the city of Belém, Pará State.

Phenacogaster tegatus (Eigenmann, 1911)

Vesicatrux tegatus Eigenmann, 1911c:174, Pl. 7 (fig. 1). Type locality: Jaurú, Upper Paraguay basin. [Brazil]. Holotype: FMNH 54573. [The holotype was considered missing (Ibarra, Stewart, 1987) until the examination of photos of five paratypes (FMNH 54573) from Jaurú, sent by Kevin Swagel in October 24, 2022, which allowed the identification of the holotype among them. This specimen has the peculiar contour of the humeral spot, which is identical to the illustration in Eigenmann, 1911c (plate 7, fig.1) and was reproduced in Eigenmann, 1921 (plate 52, fig. 4), and it also presents a half-open mouth, like in the figure. The four remaining type-specimens were cataloged as FMNH 148667. For other comments see Lucena, Malabarba, 2010].

Distribution: 343, 345 (Lucena, Malabarba, 2010; Casciotta *et al.*, 2003).

Phenacogaster wayampi Le Bail, Lucena, 2010

Phenacogaster wayampi Le Bail, Lucena, in Lucena, Malabarba, 2010:287, figs. 14–15. Type locality: Guiana Francesa: Sistema do Rio Oiapoque. [French Guiana]. Holotype: MNHN 1999-1457.

Distribution: 311 (Le Bail, Lucena In Lucena, Malabarba, 2010).

Phenacogaster wayana Le Bail, Lucena, 2010

Phenacogaster wayana Le Bail, Lucena, in Lucena, Malabarba, 2010:291, figs. 19–21. Type locality: Guiana Francesa: Crique Japigny (sistema do Rio Approuague). [French Guiana]. Holotype: MNHN 2003-2565.

Distribution: 311 (Le Bail, Lucena, in Lucena, Malabarba, 2010).

PHENAGONIATES Eigenmann, Wilson, 1914

CR Moreira

Phenagoniates Eigenmann, Wilson, in Eigenmann, Henn, Wilson, 1914:2. Type species: *Phenagoniates wilsoni* Eigenmann, 1914. Type by monotypy. Gender: Masculine.

Phenagoniates macrolepis (Meek, Hildebrand, 1913)

Roeboides macrolepis Meek, Hildebrand, 1913:84. Type locality: Rio Cupe, Boca de Cupe, Panama. [Río Cupe, Río Tuira basin, Panama]. Holotype: FMNH 7590.

Phenagoniates wilsoni Eigenmann, in Eigenmann, Henn, Wilson, 1914:2. Type locality: Manigru. [Upper Río Atrato, Manigru, between Quibdo and Boca de Raspadura, Choco, Colombia]. Holotype: FMNH 56540.

Distribution: 210, 301, 303 (Quevedo, 2007).

PHYCOCHARAX Ohara, Mirande, Lima, 2017

M Toledo-Piza

Phycocharax Ohara, Mirande, Lima, 2017:3. Type species: *Phycocharax rasbora* Ohara, Mirande, Lima, 2017. Type by original designation. Gender: Masculine.

Phycocharax rasbora Ohara, Mirande, Lima, 2017

Phycocharax rasbora Ohara, Mirande, Lima, 2017:3, figs. 1–3. Type locality: Brazil, Mato Grosso, Guarantã do Norte, Igarapé do Arnaldo, small stream of the rio Braço Norte, a tributary of rio Peixoto de Azevedo, rio Teles Pires drainage, rio Tapajós basin, 9° 37'13"S, 54° 57'38"W. Holotype: MZUSP 119843.

Distribution: 320 (Ohara, Mirande, Lima, 2017).

PIABARCHUS Myers, 1928

FCT Lima

Piabarchus Myers, 1928:90. Type species: *Piabina analis* Eigenmann, 1914. Type by original designation. Gender: Masculine.

Piabarchus analis (Eigenmann, 1914)

Piabina analis Eigenmann, in Eigenmann, Henn, Wilson, 1914:8. Type locality: Cáceres. [Brazil, Mato Grosso, Cáceres, rio Paraguai basin (approximately)]. Holotype: FMNH 56661.

Distribution: 343 (Mahnert, Géry, 1988).

Remarks: A record for the Amazon basin in Peru (Ortega *et al.*, 2011) is incorrect and refers to a *Gephyrocharax* species (Thomaz *et al.*, 2015:20).

Piabarchus stramineus (Eigenmann, 1908)

Bryconamericus stramineus Eigenmann, 1908:105. Type locality: Piracicaba and Uruguay River. [Brazil]. Lectotype: CAS 40833. [Designated by Eigenmann (1927:370)].

Distribution: 327, 332, 345, 333, 342, 343, 344 (Eigenmann, 1908; Britski, de Silimon, 2001; Bertaco *et al.*, 2016).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

Piabarchus torrenticola Mahnert, Géry, 1988

Piabarchus torrenticola Mahnert, Géry, 1988:3, fig. 2, Pl. 2. Type locality: Salto Pirareta, prov. Cordillera, Paraguay. [ca. 25° 30'S, 56° 56'W]. Holotype: MHNG 2385.70.

Distribution: 343 (Mahnert, Géry, 1988).

PIABINA Reinhardt, 1867

FCT Lima

Piabina Reinhardt, 1867:49. Type species: *Piabina argentea* Reinhardt, 1867. Type by monotypy. Gender: Feminine.

Piabina anhemi Da Silva, Kaefer, 2003

Piabina anhemi Da Silva, Kaefer, 2003:55, figs. 1, 2A. Type locality: Brasil: São Paulo: Salesópolis: (...) rio Paraitinga na cachoeira da Porteira, afluente do rio

Tietê (23°31'37"S, 45°45'52"W). [Brazil]. Holotype: MCP 30687.

Distribution: 344 (Silva, Kaefer, 2003).

***Piabina argentea* Reinhardt, 1867**

Piabina argentea Reinhardt, 1867:50, Pl. 1. Type locality: (...)Omegnen af den (...) Lagoa Santa (...) lille Baek, som udgyder sig i Rio Das Velhas. [Brazil, Minas Gerais, Lagoa Santa, small stream tributary to Rio das Velhas]. Lectotype: ZMUC 253. [Designated by Vari, Harold (2001:226)].

Distribution: 344, 327, 328 (Vari, Harold, 2001; Camelier, Zanata, 2014a).

Remarks: A full taxonomical account of the species is presented in Vari, Harold (2001:224–228).

***Piabina thomasi* (Fowler, 1940)**

Bryconamericus thomasi Fowler, 1940b:49, figs. 3–4. Type locality: Rio Lipeo, Bolivia. Holotype: ANSP 68740.

Distribution: 342 (Fowler, 1940b).

Remarks: Generic assignment based on Thomaz *et al.* (2015).

PLANALTINA Böhlke, 1954

NA Menezes, P Camelier

***Planaltina* Böhlke, 1954:265.** Type species: *Planaltina myersi* Böhlke, 1954. Type by original designation. Gender: Feminine.

***Planaltina britskii* Menezes, Weitzman, Burns, 2003**

Planaltina britskii Menezes, Weitzman, Burns, 2003:579, figs. 30–36. Type locality: Município de São José do Rio Preto, córrego da Barra Funda, tributary of rio Preto and tributary of rio Turvo, tributary of rio Grande, approximately 20°37'S, 49°23'W. [State of São Paulo, Brazil]. Holotype: MZUSP 62757.

Distribution: 344 (Menezes *et al.*, 2003).

***Planaltina glandipedis* Menezes, Weitzman, Burns, 2003**

Planaltina glandipedis Menezes, Weitzman, Burns, 2003:571, figs. 22–29. Type locality: Corumbataí, rio Corumbataí, approximately 22°13'S, 47°38'W. [State of São Paulo, Brazil]. Holotype: MZUSP 62752.

Distribution: 344 (Menezes *et al.*, 2003).

***Planaltina kaingang* Deprá, da Graça, Pavanelli, Avelino, Oliveira, 2018**

Planaltina kaingang Deprá, da Graça, Pavanelli, Avelino, Oliveira, 2018:11, figs 2a, 5, 6a, 7. Type locality: Brazil, Paraná State, between municipalities of Marialva and Bom Sucesso, rio Keller, tributary to the rio Ivaí, upper rio Paraná basin, Paraná State, Brazil, 23°38'30"S, 51°51'33"W, 517 m. Holotype: MCP 50191.

Distribution: 344 (Deprá, da Graça, Pavanelli, Avelino, Oliveira, 2018).

***Planaltina myersi* Böhlke, 1954**

Planaltina myersi Böhlke, 1954:267, fig. 3. Type locality: Sarandi brook, Planaltina, Goyaz, Brazil. [Goyaz is now written Goiás in Portuguese]. Holotype: SU 18636.

Distribution: 344 (Menezes *et al.*, 2003).

POPTELLA Eigenmann, 1908

RE Reis

***Fowlerina* Eigenmann, 1907:771.** Type species: *Tetragonopterus compressus* Günther,

1864. Type by monotypy. Gender: Feminine. Additional comments: Preoccupied by *Fowlerina* Pelseneer, 1906 in Mollusca, replaced by *Ephippicharax* Fowler, 1913. Name first appeared in Eigenmann, McAtee, Ward, 1907:153.
- Poptella*** Eigenmann, 1908:106. Type species: *Tetragonopterus longipinnis* Popta, 1901. Type by original designation. Gender: Feminine.
- Ephippicharax*** Fowler, 1913a:51. Type species: *Tetragonopterus compressus* Günther, 1864. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Fowlerina* Eigenmann, 1908, preoccupied by *Fowlerina* Pelseneer, 1906 in Mollusca.
- Poptella actenolepis*** Garcia-Ayala, Benine, 2019
Poptella actenolepis Garcia-Ayala, Benine, 2019:e180149[2], figs. 1–4. Type locality: Brazil, Amazonas, Apuí, Rio Juma, tributary of the Rio Aripuanã, Rio Madeira basin, Igarapé Mutum, nearby the bridge on road BR 230 between Vicinal Brasília and Nova Esperança, 07° 14'56"S, 59° 58'42.744"W. Holotype: MZUSP 124423.
 Distribution: 321 (Garcia-Ayala, Benine, 2019).
- Poptella brevispina*** Reis, 1989
Poptella brevispina Reis, 1989:37, fig. 22. Type locality: Igarapé Apeu, Boa Vista, Castanhal, Pará, Brazil. Holotype: MZUSP 38562.
 Distribution: 310, 311, 315, 323, 324 (Reis, 1989).
- Poptella compressa*** (Günther, 1864)
Tetragonopterus compressus Günther, 1864:319. Type locality: Essequibo [Guyana]. Lectotype: BMNH 1864.1.21.67. [Designated by Reis (1989:23)].
 Distribution: 307, 308, 309, 310, 316, 318, 319, 321, 322, 323, 324, 325 (Reis, 1989).
- Poptella fuscata*** Garcia-Ayala, Benine, 2021
Poptella fuscata Garcia-Ayala, Benine, 2021:2, figs. 1–5. Type locality: Peru, Loreto, Putumayo, Río Putumayo, Subbasin Bufeo, Quebrada Campamento Satélite EO4, 02° 22'29"S, 71° 35'35"W. Holotype: MUSM 69465.
 Distribution: 316 (Garcia-Ayala, Benine, 2021).
- Poptella longipinnis*** (Popta, 1901)
Tetragonopterus longipinnis Popta, 1901:85, figure. Type locality: Beneden-Nickerie, entre le Manilie-kreek et l'Arrawarra [Suriname]. Lectotype: RMNH 13033. [Designated by Reis (1989:28)].
Gymnocorymbus nemopterus Fowler, 1914a:247, fig. 8. Type locality: Rupununi River, British Guiana. [Guyana]. Holotype: ANSP 39332.
 Distribution: 307, 309, 311, 323, 324 (Reis, 1989).
- Poptella paraguayensis*** (Eigenmann, 1907)
Fowlerina paraguayensis Eigenmann, in Eigenmann, McAtee, Ward, 1907:153. Type locality: Descalvados. Lectotype: BMNH 1895.5.17.200. [Designated by Reis (1989:33)].
 Distribution: 343, 345 (Reis, 1989).

PRIONOBAMA Fowler, 1913**CR Moreira**

- Prionobrama*** Fowler, 1913b:534. Type species: *Prionobrama madeirae* Fowler, 1913.

Type by original designation. Gender: Feminine.

Bleptonema Eigenmann, 1914b:44. Type species: *Bleptonema paraguayensis* Eigenmann, 1914. Type by subsequent designation [Designated by Jordan, 1920:553]. Gender: Neuter.

Prionobrama filigera (Cope, 1870)

Aphyocharax filigerus Cope, 1870:564. Type locality: Pebas, Eastern Ecuador. [currently, Peru]. Holotype: ANSP 8073. [Comments about type specimen in Böhlke, 1984:46 and Bührnheim, Malabarba, 2006].

Prionobrama madeirae Fowler, 1913b:535, fig. 9. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. Holotype: ANSP 39218.

Bleptonema amazonae Eigenmann, 1914b:44. Type locality: Santarem. [Brazil]. Holotype: FMNH 56679.

Aphyocharax analis Nichols, 1915:127, fig. 1. Type locality: unknown. [Aquarium specimen apparently from Manaus, Amazonas, Brazil]. Holotype: AMNH 5073. Distribution: 316, 317, 318, 319, 321, 323 (Quevedo, 2007, Dagosta, de Pinna, 2019).

Prionobrama paraguayensis (Eigenmann, 1914)

Bleptonema paraguayensis Eigenmann, 1914b:44. Type locality: Corumba [Brazil]. Holotype: FMNH 56681.

Distribution: 342, 343 (Quevedo, 2007).

PRISTELLA Eigenmann, 1908

FCT Lima

Pristella Eigenmann, 1908:99. Type species: *Holopristes riddlei* Meek, 1907. Type by original designation. Gender: Feminine.

Pristella ariporo Conde-Saldaña, Albornoz-Garzón, García-Melo, Villa-Navarro, Mirande, Lima, 2019

Pristella ariporo Conde-Saldaña, Albornoz-Garzón, García-Melo, Villa-Navarro, Mirande, Lima, 2019:440, figs. 1–3. Type locality: Colombia, Departamento Casanare, Maní, La Porfía, Río Ariporo, 06°00'37"N, 71°17'32"W, 160 masl. Holotype: CZUT-IC 19972.

Distribution: 307 (Conde-Saldaña *et al.*, 2019).

Pristella crinogi Lima, Caires, Conde-Saldaña, Mirande, Carvalho, 2021

Pristella crinogi Lima, Caires, Conde-Saldaña, Mirande, Carvalho, 2021:341, figs. 1–3. Type locality: Brazil, Tocantins, Mateiros, ribeirão Brejão, tributary of rio Preto (rio Tocantins basin), 10°34'29"S, 46°29'13"W. Holotype: ZUEC 17252.

Distribution: 324, 327 (Lima *et al.*, 2021).

Pristella maxillaris (Ulrey, 1894)

Aphyocharax maxillaris Ulrey, 1894:611. Type locality: Brazil. [Exact provenance of the syntypes not known but likely eastern Pará state (an area visited by the collector of the material, Charles F. Hartt, in 1870)]. Syntypes: (10) SU 2170 (1), 47059 (2).

Holopristes riddlei Meek, in Eigenmann, Ogle, 1907:11. Type locality: Los Castillos, Venezuela. [Los Castillos, Rio Orinoco basin, Departamento Delta Amacuro,

Venezuela (ca. 8°30'N, 62°24'W)]. Holotype: CAS 57151. [Types stated as missing by Ibarra, Stewart (1987:45) but holotype present at CAS].

Distribution: 309, 310, 311, 323 (Planquette *et al.*, 1996; Eigenmann, 1912a; Lima *et al.*, 2020).

Remarks: See Planquette *et al.* (1996:334–335) for an account on the species.

PRODONTOCHARAX Eigenmann, Pearson, 1924 **FC Jerep, LR Malabarba, J Chuctaya**

Prodontocharax Eigenmann, Pearson, in Pearson, 1924:35. Type species: *Prodontocharax melanotus* Pearson, 1924. Type by monotypy. Gender: Masculine.

Amblystilbe Fowler, 1940b:85. Type species: *Amblystilbe howesi* Fowler, 1940. Type by original designation. Gender: Feminine.

Prodontocharax alleni Böhlke, 1953

Prodontocharax alleni Böhlke, 1953a:661. Type locality: Cashiboya, Peru, on the Rio Ucayali. [Lago Cashiboya, about 7°31'S, 74°55'W]. Holotype: CAS 117472.

Distribution: 316, 318, 319, 321 (Malabarba, 2003, Lima *et al.*, 2013).

Prodontocharax howesi (Fowler, 1940)

Amblystilbe howesi Fowler, 1940b:85, figs. 46–48. Type locality: Boca Chapare, Río Chimore, Cochabamba, Bolivia. [Amazon system]. Holotype: ANSP 69070.

Distribution: 318 (Malabarba, 2003).

Prodontocharax melanotus Pearson, 1924

Prodontocharax melanotus Pearson, 1924:36, fig. 4, Pl. 12 (figs. 1–2). Type locality: Tumupasa. [30 miles northwest of Rurrenabaque, Bolivia, elevation about 1000 feet]. Lectotype: CAS 59793 [Designated by Böhlke 1953a:660].

Distribution: 318, 319 (Malabarba, 2003).

PROTOCHEIRODON Vari, Melo, Oliveira, 2016

CR Moreira

Protocheiroduon Vari, Melo, Oliveira, 2016:e150154. Type species: *Leptagoniates pi* Vari, 1978. Type by original designation. Gender: Masculine.

Protocheiroduon pi (Vari, 1978)

Leptagoniates pi Vari, 1978:185, figs. 1–2. Type locality: Bolivia, Río Mamoré, 10 km west of San Pedro, lagoons communicating with river. Holotype: AMNH 35952.

Distribution: 316, 317, 321 (Vari *et al.*, 2016).

PSALIDODON Eigenmann, 1911

AM Zanata, VA Bertaco, FCT Lima

Psalidodon Eigenmann, 1911c:165. Type species: *Psalidodon gymnodontus* Eigenmann, 1911. Type by original designation. Gender: Masculine.

Remarks: Synonymy with *Astyanax* proposed by Pavanelli, Oliveira, 2009:569. Considered as a valid genus by Teran *et al.*, 2020.

Psalidodon anisitsi (Eigenmann, 1907)

Hemigrammus anisitsi Eigenmann, in Eigenmann, Ogle, 1907:16. Type locality: Villa Rica. [Villarica, Guairá Department, río Tebicuary drainage, río Paraguay basin, Paraguay]. Holotype: CAS 11984 (1 of 3). [Holotype (30.9 mm SL) and two paratypes (22.2 and 26.6 mm SL) under the same catalog number (CAS 11984), in the same jar].

Hemigrammus caudovittatus Ahl, 1923a:261, figure. Unnumbered on page 261. Type locality: Buenos Aires. [Buenos Aires, Argentina]. Types: Probably at ZMB. [The material cited by Zarske, Géry (1995:110) are probably syntypes of *Hemigrammus caudovittatus*. There are two uncatalogued lots at ZMB identified as *Hemigrammus caudovittatus*, with labels indicating that they are syntypes: ZMB uncatalogued with 6 specimens and ZMB uncatalogued with 141 specimens].

Hyphessobrycon erythrurus Ahl, 1928a:319. Type locality: Südamerika, vermutlich Amazonenstrom. Holotype: ZMB 20828.

Distribution: 344, 343, 329, 330, 332, 345 (FR Carvalho, pers. obs.).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon bifasciatus (Garavello, Sampaio, 2010)

Astyanax bifasciatus Garavello, Sampaio, 2010:856, fig. 6. Type locality: Rio Iguacu, marginal ponds at Avenida das Torres, at side of Reserva do Cambuí, São José dos Pinhais, Paraná, Brazil. Holotype: MZUSP 105961.

Distribution: 346 (Garavello, Sampaio, 2010).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon bockmanni (Vari, Castro, 2007)

Astyanax bockmanni Vari, Castro, 2007:151, figs. 1–2. Type locality: Brazil, Goiás, Rio Paranaíba basin, Município de Catalão, Córrego Fundo, just above bridge along dirt road, right hand tributary of Rio San Marcos, 18° 07' 29" S, 47° 43' 27" W. Holotype: LIRP 5638.

Distribution: 344 (Vari, Castro, 2007).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon chico (Casciotta, Almirón, 2004)

Astyanax chico Casciotta, Almirón, 2004:12, figs. 1–3. Type locality: Argentina, Jujuy Province, río San Francisco basin, río de Zora in route 34. Holotype: MACN-Ict 8673.

Distribution: 342 (Casciotta, Almirón, 2004).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon correntinus (Holmberg, 1891)

Tetragonopterus correntinus Holmberg, 1891:188. Type locality: Corrientes, Río Paraná, Argentina. No types known.

Distribution: 345 (Mirande *et al.*, 2006).

Remarks: Species redescribed by Mirande *et al.* (2006). Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon dissensus (Lucena, Thofehrn, 2013)

Astyanax dissensus Lucena, Thofehrn, in Lucena, Castro, Bertaco, 2013:538, figs. 1–2. Type locality: Brazil, Rio Grande do Sul, Candiota, arroio Candiota, downstream of Thermoelectric Power Plant, rio Jaguarão drainage, 31° 34' 36" S, 53° 40' 22" W. Holotype: MCP 47000.

Distribution: 332, 333, 334 (Lucena *et al.*, 2013).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon eigenmanniorum (Cope, 1894)

Tetragonopterus eigenmanniorum Cope, 1894a:89, Pl. 6 (fig. 8). Type locality: Rio Grande do Sul. [Brazil]. Lectotype: ANSP 21598. [Designated by Fowler (1906:346). Treated as holotype by Böhlke (1984:45), and Vari, Castro (2007:159)].

Distribution: 332, 333, 334, 335, 345 (Malabarba, 1989; Vari, Castro, 2007; Lucena *et al.*, 2013; Santos *et al.*, 2022:3).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10). Redefined by Santos *et al.*, 2022.

Psalidodon endy (Mirande, Aguilera, Azpelicueta, 2006)

Astyanax endy Mirande, Aguilera, Azpelicueta, 2006b:59, figs. 1–2. Type locality: Argentina: Salta, Orán, Río Bermejo basin, tributary of Río Bermejo in its intersection with Ruta Provincial 19, near Estancia Santa Rosa (22° 43'18"S, 64° 24'13"W; approximately 440 meters above sea level). Holotype: CI-FML 3834.

Distribution: 342 (Mirande *et al.*, 2006b).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon erythropterus (Holmberg, 1891)

Tetragonopterus erythropterus Holmberg, 1891:189. Type locality: República Argentina, Rio de la Plata : Paraná, Buenos Ayres. Syntypes: whereabouts unknown. [Soneira *et al.*, 2010].

Distribution: 345 (Soneira *et al.*, 2010).

Remarks: Species redescribed by Soneira *et al.* (2010). Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon fasciatus (Cuvier, 1819)

Chalceus fasciatus Cuvier, 1819:352, Pl. 26 (fig. 2). Type locality: Brésil. [Brazil]. Syntypes: MNHN A-9896 (2), A-8653 and A-8654 (2).

Tetragonopterus viejita Valenciennes, in Cuvier, Valenciennes, 1850:154. Type locality: Lagune de Maracaibo. [Venezuela]. Syntypes: MNHN A-9820 (2, poor condition) Lake Maracaibo, A-8656 (1, dry) Brazil. Considered a provisional synonym by Lima *et al.*, 2003:109; not from rio São Francisco drainage (region 327).

Astyanax carolinae Gill, 1870:92. Type locality: River Napo or Marañon. [some species described by Gill (1870) were based on specimens from the Pacific versant of the Andes; see comments for *Tetragonopterus ortonii* herein]. Holotype: USNM 8225. Considered a provisional synonym by Lima *et al.*, 2003:109; not from rio São Francisco drainage (region 327).

Tetragonopterus cuvieri Lütken, 1875c:131 [5]. Type locality: fluminibus S. Francisco et Rio das Velhas cum affluentibus. [Minas Gerais, Brazil]. Syntypes: MNHN 0000–9581 (2); ZMB 9198 (2); ZMUC 306, 308, 310, 312, 314, 315, 328, 329, 363.

Astyanax heterurus Eigenmann, Wilson, in Eigenmann, Henn, Wilson, 1914:11. Type locality: Turando. [Colombia]. Holotype: FMNH 56577. [Ibarra, Stewart (1987:13)]. Suggested as a provisional synonym of *Astyanax fasciatus* (Cuvier 1819) (= *Psalidodon fasciatus*) in Lima *et al.* (2003:109).

Astyanax hanstroemi Dahl, 1943:217 [3], figure. Type locality: Rio Batatal, tributary to Rio San Jorge, Magdalena system. Municipio of Ayapel, department of Bolivar, Republic of Colombia. Holotype: ZMUL. Considered a provisional synonym by Lima *et al.*, 2003:109; not from rio São Francisco drainage (region 327).

Astyanax fasciatus orteguasae Fowler, 1943d:237, fig. 16. Type locality: Florencia, Rio Orteguasa, Colombia. Holotype: ANSP 70498. Considered a provisional synonym by Lima *et al.*, 2003:109; not from rio São Francisco drainage (region 327).

Distribution: 327 (Melo, Buckup, 2006).

Remarks: Melo, Buckup (2006) suggested that the species name should only be applied to specimens from the rio São Francisco drainage. Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon gymnodontus Eigenmann, 1911

Psalidodon gymnodontus Eigenmann, 1911c:166, Pl. 4 (figs. 2–3). Type locality: Porto União, Rio Iguassú. [Brazil]. Holotype: FMNH 54574.

Distribution: 346 (Pavanelli, Oliveira, 2009).

Psalidodon gymnogenys (Eigenmann, 1911)

Astyanax gymnogenys Eigenmann, 1911c:179, Pl. 9. Type locality: Porto União, Rio Iguassú. [Brazil]. Holotype: FMNH 54707.

Astyanax longirhinus Garavello, Sampaio, 2010:853, fig. 4. Type locality: Rio Iguaçú, downstream of Salto Santiago dam, between Laranjeiras do Sul and Chopinzinho, Laranjeiras do Sul, Paraná, Brazil. Holotype: MZUSP 105954. [Type series of the species is a mixture of different species (Oliveira *et al.*, 2019:237)]. Synonymy with *Astyanax gymnogenys* Eigenmann, 1911 (= *Psalidodon gymnogenys*) proposed by Oliveira *et al.*, 2019.

Distribution: 346 (Oliveira *et al.*, 2019).

Remarks: Species redescribed by Oliveira *et al.*, 2019. Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon hermosus (Miquelarena, Protogino, López, 2005)

Astyanax hermosus Miquelarena, Protogino, López, 2005:14, fig. 1. Type locality: San Francisco River, Primero River basin, Valle Hermoso (31°07'S, 64°29'W), Punilla Department, Córdoba Province, Argentina. Holotype: CFA-IC-11690. [Bogan *et al.*, 2019:12].

Distribution: 339 (Miquelarena *et al.*, 2005).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon ita (Almirón, Azpelicueta, Casciotta, 2002)

Astyanax ita Almirón, Azpelicueta, Casciotta, 2002:4, figs. 1–4. Type locality: Argentina, province of Misiones, Río Iguazú basin, Arroyo Tateto (25°47'12,8"S, 53°58'12,9"W). Holotype: MLP 9599.

Distribution: 346 (Almirón *et al.*, 2002).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon jequitinhonhae (Steindachner, 1877)

Tetragonopterus rutilus var. *jequitinhonhae* Steindachner, 1877:577, 693, Pl. 2 (fig. 3). Type locality: Jequitinhonha. [Rio Jequitinhonha, Brazil]. Syntypes: NMW 57759–61 (5, 3, 6).

Distribution: 328 (Steindachner, 1877)

Remarks: Considered a provisional synonym by Lima *et al.*, 2003:108; and a valid species by Terán *et al.*, 2020:10 and Salgado, 2021b:4.

Psalidodon leonidas (Azpelicueta, Casciotta, Almirón, 2002)

Astyanax leonidas Azpelicueta, Casciotta, Almirón, 2002:245, figs. 1–4, 6, 8, 12. Type locality: Argentina, Misiones, río Paraná basin, headwaters of arroyo Urugua-í (26° 10'S, 53° 41'W). Holotype: MLP 9580.

Distribution: 345 (Azpelicueta *et al.*, 2002).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon marionae (Eigenmann, 1911)

Astyanax marionae Eigenmann, 1911c:175, Pl. 7 (fig. 3). Type locality: Six miles from San Louiz de Caceres. [Brazil]. Holotype: FMNH 54711.

Distribution: 343 (Britski *et al.*, 1999).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon ojiara (Azpelicueta, Garcia, 2000)

Astyanax ojiara Azpelicueta, Garcia, 2000:246, figs. 1–13. Type locality: Argentina, province of Misiones, arroyo Benítez, headwaters of río Yaboty, an affluent of río Uruguay. Holotype: MLP 9470.

Distribution: 333 (Azpelicueta, Garcia, 2000).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon pampa (Casciotta, Almirón, Azpelicueta, 2005)

Astyanax pampa Casciotta, Almirón, Azpelicueta, 2005:402, figs. 1–4. Type locality: Argentina, Province of Buenos Aires, arroyo Las Mostazas (38° 5'S, 61° 27'W). Holotype: MACN-ict 8651.

Distribution: 339, 347 (Pérez, 2008).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon parahybae (Eigenmann, 1908)

Astyanax fasciatus parahybae Eigenmann, 1908:97. Type locality: Rio Parahyba, Mendez, Muriahe, and Taubaté. [Brazil]. Lectotype: MCZ 20685. [Designated by Melo (2001:29)].

Distribution: 329, 352 (Melo, 2001).

Remarks: Species redescribed by Melo (2001). Placed in *Psalidodon* by Terán *et al.* (2020:10).

Psalidodon paranae (Eigenmann, 1914)

Astyanax scabripinnis var. *paranae* Eigenmann, 1914b:47. Type locality: Parana. [Upper rio Tibagi, Castro, Paraná State, Brazil, according to Garutti, Britski (2000:81)]. Holotype: CAS 22555.

Distribution: 344 (Garutti, Britski, 2000; Oliveira *et al.*, 2019).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).

Psalidodon pellegrini (Eigenmann, 1907)

Astyanax pellegrini Eigenmann, in Eigenmann, McAtee, Ward, 1907:136, Pl. 40 (fig. 3). Type locality: Basin of the Paraguay and Bahia Negra. [Paraguay]. Syntypes: AMNH 1447 (2); CAS 39350 (1), CAS 39351 (2), CAS 39352 (1), CAS 39353 (1), 39355 (1).

Distribution: 343 (Mirande *et al.*, 2006; Brancolini *et al.*, 2011).

Remarks: Comments on *Astyanax pellegrini* (= *Psalidodon pellegrini*) in Mirande *et al.* (2006:13). See Géry (2006) for comments on the use of the species name *pellegrini*

- instead of *pelegri*. Placed in *Psalidodon* by Terán *et al.* (2020:11) (as *pelegri*).
- Psalidodon powelli*** (Terán, Butí, Mirande, 2017)
Astyanax powelli Terán, Butí, Mirande, 2017:2, figs. 1. Type locality: Argentina, Catamarca Province, El Alto, Río Sucuma, tributary of the arheic Río Las Tunas, 28°14'21"S, 65°22'45"W, ca. 800 meters above sea level. Holotype: CI-FML 6797.
 Distribution: 345 (Terán, Butí, Mirande, 2017).
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon puka*** (Mirande, Aguilera, Azpelicueta, 2007)
Astyanax puka Mirande, Aguilera, Azpelicueta, 2007:33, figs. 1–3. Type locality: Argentina, Tucumán, Monteros, Río Salí basin, Río Mandolo, under the bridge of Ruta Provincial 344, near Monteros City. Holotype: CI-FML 3844.
 Distribution: 345 (Mirande *et al.*, 2007; Terán *et al.*, 2017).
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon pynandi*** (Casciotta, Almirón, Bechara, Roux, Ruíz Díaz, 2003)
Astyanax pynandi Casciotta, Almirón, Bechara, Roux, Ruíz Díaz, 2003:808, figs. 1–4, 6–7. Type locality: Argentina, Corrientes, Esteros del Iberá, Laguna Iberá, Lobo-Cuá (28°32'S, 57°12'W). Holotype: MACN-Ict 8543.
 Distribution: 345.
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon rioparanaibanus*** Alves, Oliveira, Pasa, Kavalco, 2020
Psalidodon rioparanaibanus Alves, Oliveira, Pasa, Kavalco, 2020:810, fig. 3. Type locality: Rita stream, Rio Paranaíba, Minas Gerais, Brazil, 19.187714°S, 46.236178°W. [(coordinates should be 19.187714°S 46.236178°W)]. Holotype: LaGEEvo 4011 - L12.
 Distribution: 344 (Alves *et al.*, 2020).
- Psalidodon rivularis*** (Lütken, 1875)
Tetragonopterus rivularis Lütken, 1875c:132 [6]. Type locality: flumine Rio d. Velhas cum affluentibus. [Brazil]. Syntypes: MNHN 0000–9582 (4), NMW 57707 (5), SMNS 2046 (3), ZMB 9199 (4), ZMUC (49).
 Distribution: 327 (Lütken, 1875c).
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon rutilus*** (Jenyns, 1842)
Tetragonopterus rutilus Jenyns, 1842:125, Pl. 23 (figs. 2, 2a). Type locality: Rio Parana, South America. Holotype: BMNH 1917.7.14.14.
Salmo ovatus Larranãga, 1923:388. Type locality: Uruguay. No types known.
 Synonymy uncertain.
 Distribution: 345 (Melo, Buckup, 2006).
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon schubarti*** (Britski, 1964)
Astyanax schubarti Britski, 1964:214, fig. Type locality: Rio Mogi Guassu em Emas, São Paulo, a jusante da barragem. [Brazil]. Holotype: MZUSP 4263.
 Distribution: 344 (Britski, 1964; Castro, Vari, 2004).
 Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).
- Psalidodon troya*** (Azpelicueta, Casciotta, Almirón, 2002)
Astyanax troya Azpelicueta, Casciotta, Almirón, 2002:249, figs. 5, 7, 10–11, 13–18,

20–21. Type locality: Argentina, Misiones, arroyo Cuñapirú Chico, near its mouth in the arroyo Cuñapirú, an affluent of río Paraná. Holotype: MACN 8310.

Distribution: 345 (Azpelicueta *et al.*, 2002).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).

Psalidodon tumbayaensis (Miquelarena, Menni, 2005)

Astyanax tumbayaensis Miquelarena, Menni, 2005:663, figs. 1–2. Type locality: man-made channel near the road crossing the village of Tumbaya (23°51' S–65°28' W), Grande River basin, Jujuy Province, Argentina. Holotype: CFA-IC 11702. [Bogan *et al.*, 2019:12].

Distribution: 342 (Miquelarena, Menni, 2005).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).

Psalidodon xavante (Garutti, Venere, 2009)

Astyanax xavante Garutti, Venere, 2009:378, figs. 1–2. Type locality: Brazil, Mato Grosso, Barra do Garças, creek tributary to the córrego Avoadeira, inside the Parque Estadual da Serra Azul, approx. 15°53'S, 52°15'W. Holotype: MZUSP 100375.

Distribution: 324 (Garutti, Venere, 2009).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).

Psalidodon xiru (Lucena, Castro, Bertaco, 2013)

Astyanax xiru Lucena, Castro, Bertaco, 2013:544, figs. 7–8. Type locality: Brazil, Rio Grande do Sul, Sapiranga, rio Feitoria, rio Caí drainage, 29°38'10"S, 51°00'28"W. Holotype: MCP 19986.

Distribution: 332, 333, 334 (Lucena *et al.*, 2013; Bertaco *et al.*, 2016).

Remarks: Placed in *Psalidodon* by Terán *et al.* (2020:11).

PSELLOGRAMMUS Eigenmann, 1908

FCP Dagosta

Psellogrammus Eigenmann, 1908:99. Type species: *Hemigrammus kennedyi* Eigenmann, 1903. Type by original designation. Gender: Masculine.

Remarks: Suggested as synonym of *Ctenobrycon* (Lopes, 2009).

Psellogrammus kennedyi (Eigenmann, 1903)

Hemigrammus kennedyi Eigenmann, in Eigenmann, Kennedy, 1903:520. Type locality: Campo Grande. [Lagunitas, five kilometers from Asunción, Paraguay. Holotype: CAS 44420.

Distribution: 326, 327, 328, 343 (Lopes, 2009; Camelier, 2013).

Remarks: Sister to *Ctenobrycon hauxwellianus* according to Terán *et al.* (2020).

PSEUDOCHALCEUS Kner, 1863

VA Bertaco

Pseudochalceus Kner, 1863:225. Type species: *Pseudochalceus lineatus* Kner, 1863. Type by monotypy. Gender: Masculine.

Pseudochalceus bohlkei Orcés, 1967

Pseudochalceus bohlkei Orcés, 1967:139. Type locality: Río Palabí, sistema fluvial del Santiago, provincia de Esmeraldas. [Ecuador]. Holotype: Author's coll. 5612.

Distribution: 301 (Orcés, 1967).

Pseudochalceus kyburzi Schultz, 1966

Pseudochalceus kyburzi Schultz, 1966:27, figs. (p. 25, 29). Type locality: Río Calima, Cauca Valley, Colombia. Holotype: USNM 231738 [was USNM 257403-F27].

Distribution: 301 (Schultz, 1966; Géry, 1972d).

Pseudochalceus lineatus Kner, 1863

Pseudochalceus lineatus Kner, 1863:225, “fig. 11” (unpublished). Type locality: Vom Westabhange der Anden im Staate Ecuador. Syntypes: ?NMW 56738–39 (1, 1); ZSM no. 146, 292 [old collection] (2) destroyed in WWII.

Distribution: 301 (Géry, 1972d).

Pseudochalceus longianalis Géry, 1972

Pseudochalceus (Pseudochalceus) longianalis Géry, 1972d:933, figs. 1–2. Type locality: Sud. De la Colombie, près de la frontière avec l’Equateur, versant pacifique: rio Guiza, affluent du rio Mira, à La Guayacana, Province Narino, altitude 240 m, coordonnées 1°27’N, 78°27’W. [Colombia]. Holotype: MHNG 1226.90.

Distribution: 301 (Géry, 1972d).

PSEUDOCHEIRODON Meek, Hildebrand, 1916 **FC Jerep, LR Malabarba, J Chuctaya**

Pseudocheirodon Meek, Hildebrand, 1916:275. Type species: *Pseudocheirodon affinis* Meek, Hildebrand, 1916. Type by original designation. Gender: Masculine.

Pseudocheirodon arnoldi (Boulenger, 1909)

Chirodon arnoldi Boulenger, 1909b:497. Type locality: Imported from Puerto Mexico, on the north coast of the Isthmus of Tehuantepec, which have been or are still living in Mr. Arnold’s aquarium at Hamburg. [Occurs only in Panama, from the río Tuyá to the río San Pedro basin on the Pacific and in the Chagres basin on the Atlantic slope (Bussing, 1967)]. Holotype: BMNH 1909.10.5.1.

Pseudocheirodon affinis Meek, Hildebrand, 1916:275, Pl. 18. Type locality: Río Gatún, Monte Liria, Canal Zone. [Panama]. Holotype: FMNH 8944 (not 8941 as in the original description).

Distribution: 206, 208, 209, 210 (Bussing, 1967; Fink, Weitzman, 1974).

Pseudocheirodon terrabae Bussing, 1967

Pseudocheirodon terrabae Bussing, 1967:212, fig. 1. Type locality: CR64-12: Puntarenas: Río Ceibo (260 m) at IH, 6 km W of Buenos Aires turnoff. [Costa Rica; IH is an abbreviation for the Inter American Highway]. Holotype: LACM 9238-1.

Distribution: 205, 206 (Bussing, 1967; Fink, Weitzman, 1974).

PSEUDOCORYNOPOMA Perugia, 1891

NA Menezes, P Camelier

Pseudocorynopoma Perugia, 1891:646. Type species: *Pseudocorynopoma doriae* Perugia, 1891. Type by monotypy. Gender: Neuter.

Chalcinopelecus Holmberg, 1891:190. Type species: *Chalcinopelecus argentinus* Holmberg, 1891. Type by monotypy. Gender: Masculine.

Bergia Steindachner, 1891:173. Type species: *Bergia altipinnis* Steindachner, 1891.

Type by monotypy. Gender: Feminine. Additional comments: Preoccupied by *Bergia* Duchassaing, Michelotti, 1861 in Coleoptera and by *Bergia* Scott, 1881 in Hemiptera; apparently not replaced (Weitzman, 2003:226).

Remarks: *Pseudocorynopoma* predates junior synonyms of same year.

Pseudocorynopoma doriae Perugia, 1891

Pseudocorynopoma doriae Perugia, 1891:646 [46], figure. Type locality: Dintorni di la Plata. [Argentina]. Holotype: MSNG 9224.

Chalcinopelecus argentinus Holmberg, 1891:190. Type locality: Republica Argentina: Río de la Plata (con su afluente el Río Paraguay), desde latitud 26° hasta 34 ½. No types known.

Bergia altipinnis Steindachner, 1891:173. Type locality: Montevideo. [Uruguay]. Syntypes: (12) NMW 62745 (4), 62748 (2), 67746 (4).

Distribution: 332, 333, 334, 347 (Weitzman, 2003).

Pseudocorynopoma heterandria Eigenmann, 1914

Pseudocorynopoma heterandria Eigenmann, 1914c:39. Type locality: Xiririca. [Xiririca is currently known as Eldorado Paulista near the Ribeira River, São Paulo, Brazil]. Holotype: FMNH 56407.

Distribution: 330, 331 (Eigenmann, 1914c; Weitzman, 2003).

Pseudocorynopoma stanleyi Malabarba, Chuctaya, Hirschmann, Oliveira, Thomaz, 2020

Pseudocorynopoma stanleyi Malabarba, Chuctaya, Hirschmann, Oliveira, Thomaz, 2020:7, figs. 2d-f, 3a-d, 7-9, 10b. Type locality: Brazil, Rio Grande do Sul, Marques de Souza; arroio Tamanduá, Linha Tamanduá; 29°15'44.0"S, 52°08'50.06"W. Holotype: UFRGS 27600.

Distribution: 334, 335 (Malabarba *et al.*, 2020).

PTEROBRYCON Eigenmann, 1913

NA Menezes, P Camelier

Pterobrycon Eigenmann, 1913:3. Type species: *Pterobrycon landoni* Eigenmann, 1913. Type by monotypy. Gender: Masculine.

Microbrycon Eigenmann, Wilson, in Eigenmann, Henn, Wilson, 1914:3. Type species: *Microbrycon minutus* Eigenmann, Wilson, 1914. Type by monotypy. Gender: Masculine. Additional comments: Weitzman, Fink 1985:2 considered the status of the genus as uncertain and Weitzman, 2003:227 included it as a synonym of *Pterobrycon*.

Pterobrycon landoni Eigenmann, 1913

Pterobrycon landoni Eigenmann, 1913:3. Type locality: Boca de Raspadura. [Colombia]. Holotype: FMNH 56250.

Microbrycon minutus Eigenmann, Wilson, in Eigenmann, Henn, Wilson, 1914:3. Type locality: Truando. [Colombia]. Holotype: FMNH 56606.

Distribution: 301 (Eigenmann, 1913; Weitzman, 2003).

Pterobrycon myrnae Bussing, 1974

Pterobrycon myrnae Bussing, 1974:138, figs. 1-2. Type locality: Costa Rica, Puntarenas Province, Osa Peninsula in Quebrada Aguabuena (elevation 30 m), Río Rincón

drainage 2 km W of Rincón. Holotype: LACM 33857-1.
Distribution: 206 (Bussing, 1974; Weitzman, 2003).

PTYCHOCARAX Weitzman, Fink, Machado-Allison, Royero, 1994

NA Menezes, P Camelier

Ptychocharax Weitzman, Fink, Machado-Allison, Royero, 1994:49. Type species: *Ptychocharax rhyacophila* Weitzman, Fink, Machado-Allison, Royero, 1994. Type by original designation. Gender: Masculine.

Ptychocharax rhyacophila Weitzman, Fink, Machado-Allison, Royero L., 1994

Ptychocharax rhyacophila Weitzman, Fink, Machado-Allison, Royero L., 1994:55, figs. 1–2. Type locality: Venezuela, State of Amazonas, alto Río Siapa, tributary of the Río Casiquiare, approximately between 01° 40' to 01° 41'N, and 64° 22' to 64° 28'W, altitude 560 m. Holotype: MBUCV-V-20400.
Distribution: 312 (Weitzman *et al.*, 1994; Weitzman, 2003).

RACHOVISCUS Myers, 1926

CR Moreira

Rachoviscus Myers, 1926c:1. Type species: *Rachoviscus crassiceps* Myers, 1926. Type by monotypy. Gender: Neuter.

Rachoviscus crassiceps Myers, 1926

Rachoviscus crassiceps Myers, 1926c:566, figured. Type locality: Rio de Janeiro. [Weitzman, Cruz (1981) discussed that the type locality is probably Paranaguá, Brazil, since apart from the type series there is no reference of this species collected in Rio de Janeiro. Rio de Janeiro probably was the city from which the specimens were shipped to Germany]. Lectotype: USNM 92971 [Designated by Weitzman, Cruz 1981:1009].

Distribution: 331 (Lima *et al.*, 2013).

Rachoviscus graciliceps Weitzman, Cruz, 1981

Rachoviscus graciliceps Weitzman, Cruz, 1981:1003, fig 2. Type locality: Brazil, State of Bahia; taken from one of three small creeks about 1 km north of Prado and about 500 meters from Atlantic Ocean, 17° 19'S, 39° 14'W. Holotype: MZUSP 14387.

Distribution: 328 (Lima *et al.*, 2013).

RHINOBYCON Myers, 1944

NA Menezes, P Camelier

Rhinobrycon Myers, 1944:587. Type species: *Rhinobrycon negrensis* Myers, 1944. Type by original designation. Gender: Masculine.

Rhinobrycon negrensis Myers, 1944

Rhinobrycon negrensis Myers, 1944:589, figure: pg. 590. Type locality: Santa Isabel, Rio Negro, Amazonas, Brazil. Holotype: CAS 11089.

Distribution: 314 (Myers, 1944; Weitzman, 2003).

RHINOPETITIA Géry, 1964

NA Menezes, P Camelier

Rhinopetitia Géry, 1964d:454. Type species: *Rhinopetitia myersi* Géry, 1964. Type by original designation. Gender: Feminine.

Rhinopetitia melanohumeralis Menezes, Netto-Ferreira, 2019

Rhinopetitia melanohumeralis Menezes, Netto-Ferreira, 2019:80, figs. 22–25. Type locality: Mato Grosso, Campinápolis, Rio Culuene, Rio Xingu basin, 13°32'15"S, 52°47'45"W. [Brazil]. Holotype: MZUSP 124122.

Distribution: 320, 322 (Menezes, Netto-Ferreira, 2019).

Rhinopetitia myersi Géry, 1964

Rhinopetitia myersi Géry, 1964d:454, fig. 3, Pl. 4a. Type locality: Ilha do Bananal, haut Rio Araguaia, Brésil. [Brazil]. Holotype: MHNG 2229.03.

Distribution: 324 (Géry, 1964d).

Rhinopetitia nigrofasciata Menezes, Netto-Ferreira, 2019

Rhinopetitia nigrofasciata Menezes, Netto-Ferreira, 2019:76, figs. 18–21. Type locality: Brazil, Pará, Altamira, stream on the right bank of Rio Xingu below rapids of Naninduba, 03°06'49"S, 51°37'47"W. Holotype: MZUSP 124121.

Distribution: 316, 320, 322 (Menezes, Netto-Ferreira, 2019).

Rhinopetitia oligolepis Menezes, Netto-Ferreira, 2019

Rhinopetitia oligolepis Menezes, Netto-Ferreira, 2019:72, figs. 14–17. Type locality: Brazil, Pará, Novo Progresso, Rio Jamanxim, Rio Tapajós basin, 07°43'51"S, 55°16'36"W. Holotype: MZUSP 124120.

Distribution: 320 (Menezes, Netto-Ferreira, 2019).

Rhinopetitia paucirastra Menezes, Netto-Ferreira, 2019

Rhinopetitia paucirastra Menezes, Netto-Ferreira, 2019:68, figs. 10–13. Type locality: Brazil, Goiás, Minaçu, right bank tributary of Rio Tocantinzinho, Serra da Mesa, 14°08'46"S, 48°02'52"W. Holotype: MZUSP 124118.

Distribution: 324 (Menezes, Netto-Ferreira, 2019).

Rhinopetitia potamorhachia Netto-Ferreira, Birindelli, Sousa, Menezes, 2014

Rhinopetitia potamorhachia Netto-Ferreira, Birindelli, Sousa, Menezes, 2014:1540, fig. 1, 3, 6a. Type locality: Brazil, Pará, Jacareacanga, Rio Teles Pires, downstream of Sete Quedas rapids, Rio Tapajós basin, 09°19'01"S, 56°46'47"W. Holotype: MZUSP 99612.

Distribution: 320 (Netto-Ferreira *et al.*, 2014).

RHOADSIA Fowler, 1911

RE Reis

Rhoadsia Fowler, 1911b:497. Type species: *Rhoadsia altipinna* Fowler, 1911. Type by original designation. Gender: Feminine.

Rhoadsia altipinna Fowler, 1911

Rhoadsia altipinna Fowler, 1911b:498, fig. 2. Type locality: Affluent of the Chimbo River near Bucay, Province of Guayas, Ecuador. Holotype: ANSP 39106.

Distribution: 301 (Cardoso, 2003).

Remarks: Study of body shape variation and population genetic structure by Aguirre *et al.* (2016).

Rhoadsia minor Eigenmann, Henn, 1914

Rhoadsia minor Eigenmann, Henn, 1914:231. Type locality: Mindo, Province of Pichincha, Ecuador. Rio Blanco of Rio Esmeraldas system, elevation 4,000 feet. Holotype: CAS 62221.

Distribution: 301 (Cardoso, 2003).

Remarks: Discussion about taxonomic status of species in Aguirre *et al.* (2016).

ROEBOEXODON Géry, 1959

CAS Lucena, O Santos

Roeboexodon Géry, 1959c:346. Type species: *Exodon guyanensis* Puyo, 1948. Type by original designation. Gender: Masculine.

Gnathoplax Myers, 1960:209. Type species: *Exodon guyanensis* Puyo, 1948. Type by original designation. Gender: Feminine.

Remarks: Discussion about nomenclature of genera in Lucena, Lucinda in Lima *et al.*, 2003:155 and Moreira, Lima, 2011:315.

Roeboexodon guyanensis (Puyo, 1948)

Exodon guyanensis Puyo, 1948:78 [1], fig. 1. Type locality: Confluent du Ouquie et du Tampoc, bassin di Haut-Maroni, Guyane Française. [French Guiana]. Neotype: MNHN 1959-0038. [See Lucena, Lucinda in Lima *et al.* (2003) and Moreira, Lima (2011) regarding divergent opinions about the designation of the neotype made by Géry (1959c)].

Roeboexodon geryi Myers, 1960:209. Type locality: Confluence of the Ouquie and the Tampoc, in the Upper Maroni Basin, French Guiana. Holotype: MNHN 1958-0038. Synonymy proposed by Moreira, Lima (2011)

Distribution: 311, 320, 322, 324 (Lucena, Lucinda, 2004).

ROEBOIDES Günther, 1864

CAS Lucena

Roeboides Günther, 1864:345, 347-348. Type species: *Epicyrthus microlepis* Reinhardt, 1851. Type by subsequent designation [Designated by Eigenmann, 1910:445]. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Anacyrtus* Günther, 1864:345.

Evermannella Eigenmann, 1903:146. Type species: *Cynopotamus biserialis* Garman, 1890. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Evermannella* Fowler, 1901 in fishes; replaced by *Eucynopotamus* Fowler, 1904 and by *Evermannolus* Eigenmann in Eigenmann, Ogle, 1907.

Eucynopotamus Fowler, 1904:119. Type species: *Cynopotamus biserialis* Garman, 1890. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Evermannella* Eigenmann, 1903, preoccupied by *Evermannella* Fowler, 1901 in fishes.

Cynocharax Fowler, 1907:457. Type species: *Anacyrtus affinis* Günther, 1868. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Roeboides*.

Evermannolus Eigenmann, in Eigenmann, Ogle, 1907:2, 3. Type species: *Cynopotamus biserialis* Garman, 1890. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Evermannella* Eigenmann, 1903, preoccupied by *Evermannella* Fowler, 1901 in fishes; objective synonym of earlier replacement *Eucynopotamus* Fowler, 1904.

Roeboides affinis (Günther, 1868)

Anacyrtus affinis Günther, 1868a:481. Type locality: Huallaga. Syntypes: BMNH 1867.6.13.61–62 (2).

Roeboides bicornis Cope, 1870:564, fig. Type locality: Pebas, Ecuador. [currently, Peru]. Holotype: ANSP 8151. [Fowler, 1907:458, fig. 47; Böhlke, 1984:43].

Anacyrtus prognathus Boulenger, 1895a:529. Type locality: ...at various localities in Matto Grosso and Paraguay. [“Paraguay system” is mentioned in the abstract. Later, in a more detailed publication Boulenger (1897a:36) mentioned Paraguay as the locality of the unique specimen collected]. Holotype: BMNH 1895.5.17.238.

Roeboides thurni Eigenmann, 1912a:399, Pl. 60 (fig. 2). Type locality: Rockstone sand-bank. [Guyana]. Holotype: FMNH 53676.

Distribution: 307, 309, 310, 311, 314, 315, 316, 318, 319, 321, 324, 332, 343, 345 (Lucena, 2007).

Roeboides araguaito Lucena, 2003

Roeboides araguaito Lucena, 2003b:289, fig.4. Type locality: río Orinoco, laguna na margem norte do rio, ao norte do riacho Araguaito, aprox. 08°40'42"N, 62°00'24"W. [Venezuela]. Holotype: MBUCV-V-29670.

Distribution: 307, 309 (Lucena, 2003b).

Roeboides biserialis (Garman, 1890)

Cynopotamus biserialis Garman, 1890d:14. Type locality: “Many examples were secured by the Tayer Expedition at Lago do Maximo, Obydos and Villa Bella”. [Type locality restricted by Lucena (2003b) to the lago do Máximo from the designation of lectotype, Brazil]. Lectotype (MCZ 21335, 43.0 mm SL). [Designated by Lucena (2003b)].

Distribution: 316, 319, 321 (Lucena, 2007).

Roeboides bouchellei Fowler, 1923

Roeboides bouchellei Fowler, 1923:25. Type locality: Great Falls, Pis Pis River, Nicaragua. Holotype: ANSP 51218.

Roeboides salvadoris Hildebrand, 1925:246, fig. 9. Type locality: Rio Sucio, Sitio del Niño. [El Salvador]. Holotype: USNM 87215.

Distribution: 201, 203, 204, 205, 206 (Lucena, 2000).

Roeboides bussingi Matamoros, Chakrabarty, Angulo, Garita-Alvarado, McMahan, 2013

Roeboides bussingi Matamoros, Chakrabarty, Angulo, Garita-Alvarado, McMahan, 2013:281, figs. 2, 3a,c. Type locality: Costa Rica, Puntarenas Province, río Coloradito, about 6 km from the main road, tributary of the río Coto drainage, 08°34'12"N, 82°51'33"W. Holotype: LSUMZ 14799.

Distribution: 206, 209 (Matamoros *et al.*, 2013).

Roeboides carti Lucena, 2000

Roeboides carti Lucena, 2000a:47, figs. 22 A-C. Type locality: Panamá - río Cartí

- Grande, Comarca de San Blas, 7°26'N, 78°58'W. Holotype: USNM 359076.
Distribution: 209 (Lucena, 2000a).
- Roeboides dayi*** (Steindachner, 1878)
Anacyrtus (Rhaeboides) Dayi Steindachner, 1878:91. Type locality: aus der grosser searing ansgebreiteten Cienaga, welehe der Magdalena strom mit einem seiner. [Colombia]. Holotype: NMW 67132.
Roeboides cauae Eigenmann, 1922:162. Type locality: Cartago. [Colombia]. Holotype: CAS 71099.
Roeboides magdalenae Eigenmann, 1922:161. Type locality: Soplaviento. [Colombia]. Syntypes: FMNH (?); CAS 71123 (35). Additional material: CAS 71100 (42), 71120–21 (4, 12), CAS 71122 (7); FMNH 56386–56395 (210) (but not 5202 which are types).
Roeboides meeki Eigenmann, 1922:163, Pl. 25 (fig. 4). Type locality: Quibdo. [Colombia]. Holotype: FMNH 55148. [Catalog numbers FMNH 55149 cited by Ibarra, Stewart (1987:77) as the holotype and CM 3840 by Eigenmann (1922:163) are in error (pers. comm. of Susan Mochel from FMNH)].
Roeboides romeroi Fowler, 1941a:6, fig. 9. Type locality: Honda, Colombia. Holotype: ANSP 69336.
Distribution: 209, 301, 302 (Lucena, 2000a).
- Roeboides descavadensis*** Fowler, 1932
Roeboides descavadensis Fowler, 1932:359, figure. Type locality: Descalvados, Matto Grosso, Brazil. Holotype: ANSP 53718.
Roeboides paranensis Pignalberi, 1975:152, fig. 1. Type locality: isla Ñanganui (Corrientes) 29°10'S, 59°20'W. [Argentina]. Holotype: INALI 2.
Distribution: 321, 316, 319, 321, 343, 345 (Lucena, 2007).
- Roeboides dientonito*** Schultz, 1944
Roeboides dayi dientonito Schultz, 1944:304, fig. 39. Type locality: In the Río Palmar at the bridge 70 Km. southwest of Maracaibo. [Venezuela]. Holotype: USNM 121370.
Distribution: 304, 307, 309 (Lucena, 2000a).
- Roeboides dispar*** Lucena, 2001
Roeboides dispar Lucena, 2001:63, fig. 1. Type locality: foz do [rio] Arara, bacia do rio Juruá, Reserva Extrativista Alto Juruá. [Brazil]. Holotype: MZUSP 63600.
Distribution: 316, 318 (Lucena, 2001).
- Roeboides guatemalensis*** (Günther, 1864)
Anacyrtus guatemalensis Günther, 1864:347. Type locality: Chagres river, Huamuchal. [Type locality restricted to rio Chagres, Panama]. Lectotype: BMNH 1864.1.26.310. [Designated by Miller, Carr (1974)].
Distribution: 209 (Lucena, 2000a).
- Roeboides ilseae*** Bussing, 1986
Roeboides ilseae Bussing, 1986:45, fig. 1. Type locality: Quebrada Bonita (elevation 10m) S of Damas and 9 Km NW of Quepos. [Costa Rica]. Holotype: LACM 43754-1.
Distribution: 204 (Bussing, 1986; Lucena, 2000).
- Roeboides loftini*** Lucena, 2011
Roeboides loftini Lucena, 2011:1664, fig. 1. Type locality: Río Turbe, tributary of

Río San Juan, upper Río Coclé del Norte drainage 08°47'05"N, 80°38'10"W. [Panama]. Holotype: STRI 7655.

Distribution: 209 (Lucena, 2011).

Roeboides margareteae Lucena, 2003

Roeboides margareteae Lucena, 2003b:292, fig.7. Type locality: Brazil: Maranhão: lago do Viana, sistema do rio Pindaré-Mearim. Holotype: MZUSP 38722.

Distribution: 323, 325 (Lucena, 2003b).

Roeboides microlepis (Reinhardt, 1851)

Epicyrthus microlepis Reinhardt, 1851:46. Type locality: rio Paraguai. [Type locality restricted by Lucena (2003b) to the rio Paraguay drainage]. Holotype: MNHN A-8657 (dry).

Anacyrtus (Rhaeboides) bonariensis Steindachner, 1879d:29, Pl. 8 (fig. 1). Type locality: La Plata (Provincia Buenos-Ayres). [Argentina]. Holotype: NMW 62498.

Distribution: 343, 345 (Lucena, 2003b).

Roeboides myersii Gill, 1870

Roeboides Myersii Gill, 1870:92. Type locality: ...from the Marañon, or Upper Amazon, and Napo Rivers. ..Andes of Ecuador and Peru. [Gill (1870) did not provide details about the location where the specimen was captured]. Holotype: USNM 21426.

Roeboides rubrivertex Cope, 1872b:265. Type locality: between the mouth of the Rio Negro and the Peruvian Amazon or Ucayale River. [Cope worked with material collected by John Hauxwell who was a correspondent of the Academy in Pebas (Peru) and Robert Perkins who traveled between the mouth of the Rio Negro and the Peruvian Amazon or Ucayali River. Specimens of *Roeboides rubrivertex* were collected by the latter collector (Cope, 1872b:292)]. Holotype: ANSP 8190. [Fowler (1907:457); Böhlke(1984:53)]. The name *Roeboides rubrivertex* first appeared in Cope (1871:55) in a short list of fishes from the Amazon.

Charax hasemani Steindachner, 1915b:348. Type locality: Mündung des Rio Negro. [Brazil]. Syntypes: (several) NMW

Distribution: 313, 316, 318 (Lucena, 2003b).

Roeboides numerosus Lucena, 2000

Roeboides numerosus Lucena, 2000b:154, fig. 1. Type locality: Venezuela: estrada San Fernando de Apure-Arichuma, [bacia do rio Apure] aprox. 16 km a sudoeste de San Fernando de Apure, Apure. Holotype: MZUSP 27886.

Distribution: 307, 309 (Lucena, 2007).

Roeboides occidentalis Meek, Hildebrand, 1916

Roeboides occidentalis Meek, Hildebrand, 1916:293, Pl. 23. Type locality: Rio Cardenas, Corozal, Panama. Holotype: FMNH 8948 (missing).

Roeboides hildebrandi Eigenmann, 1922:162, Pl. 25 (fig. 3). Type locality: Istmina. [Colombia]. Holotype: FMNH 56884.

Distribution: 208, 210, 301 (Lucena, 2000a).

Roeboides oligistos Lucena, 2000

Roeboides oligistos Lucena, 2000b:157, fig. 2. Type locality: Pará: braço morto do rio Tapajós, bairro de Piracuna, Itaituba. [Brazil]. Holotype: MCP 25254.

Distribution: 314, 316 (Lucena, 2000b).

Roeboides sazimai Lucena, 2007

Roeboides sazimai Lucena, 2007:132, fig. 18A. Type locality: Brasil, Maranhão: rio Pindaré, Santa Inês, 3° 39'36"S, 45° 27'59"W. [Brazil]. Holotype: MCP 38542.

Distribution: 323, 325 (Lucena, 2007; Barros *et al.*, 2011).

Roeboides xenodon (Reinhardt, 1851)

Epicyrthus xenodon Reinhardt, 1851:37. Type locality: Ribeiro do mato, em lille flod nerhedden af Lagoa santa. [Brazil]. Syntypes: (3) MNHN 0000-9585 (1); ZMB 9193 (1); ?ZMUC 203 (1), 206 (1), 211–212 (2).

Raeoboides francisci Steindachner, 1908f:192. Type locality: Lagunen bei Barra (Lagoa Viana, lagoa do Porto), die mit dem Rio San Francisco im Zusammenhang stehen und aus den Tümpfen und Ausständen des rio grande do Norte sowie des Rio Preto bis as. Rita. [Brazil]. Syntypes: (several) NMW 56891–94 (7, 71, 19, 25), 56896 (13), ?56898–900 (56, ?, 4), 56920–22 (? , 16, 9), 56895 (7), 56897 (2).

Distribution: 327 (Lucena, 2007).

SACCODERMA Schultz, 1944

FC Jerep, LR Malabarba, J Chuctaya

Saccoderma Schultz, 1944:314. Type species: *Saccoderma melanostigma* Schultz, 1944. Type by original designation. Gender: Neuter.

Saccoderma hastata (Eigenmann, 1913)

Odontostilbe hastatus Eigenmann, 1913:27. Type locality: Soplaviento. [Colombia]. Holotype: FMNH 56383.

Distribution: 301a, 302a (Jerep, 2011).

Saccoderma melanostigma Schultz, 1944

Saccoderma melanostigma Schultz, 1944:315, figs. 40–41. Type locality: Río San Juan near bridge, south of Mene Grande, Motatán system. [Venezuela]. Holotype: USNM 121519.

Distribution: 303a (Jerep, 2011).

Species inquirendae (*Saccoderma*)

Saccoderma falcata Dahl, 1955:17. Type locality: Tributaries of Sinú and from the Pechilín system. [Colombia]. Holotype: whereabouts unknown. [Catalog number and institution of types not designated in original description. In the description of *Saccoderma falcata*, Dahl (1955) mentioned “Type, male, skeletal length 30 mm. Paratypes, 158, from several tributaries of Sinú and from the Pechilín system”. However, the author did not mention in this publication nor in the following ones the catalog number and institution where this material was deposited. Types from all species and subspecies proposed in that publication are considered whereabouts unknown by Fricke *et al.*, 2022. In 1955, Dahl collected specimens from the type locality now catalogued under CAS 149503 and identified them as *Saccoderma falcata*. We (FCJ) analyzed those specimens and none of them match Dahl’s diagnosis for *S. falcata*, being individuals of *S. hastata* (CAS 149503, 15, 10.4–26.5 mm SL, Colombia, Bolivar, Pechelin, río Pechelin drainage, a small stream reduced to pools in dry season from hills near Ovejas, it flows to Golfo de Morrequillo at Tolu)].

Saccoderma robusta Dahl, 1955:18. Type locality: Nain. [Quebrada Nain, Colombia]. Holotype: whereabouts unknown. [In the description of *Saccoderma robusta*, Dahl (1955) mentioned “Type, male (from Nain) skeletal length 28 mm”. However, the author did not mention in that publication nor in the following ones, the catalog number and institution where the specimen was deposited. The analysis of the specimens MHNG 1066.39–42 (4), listed as paratypes (Mahnert, 1976:475) and identified by Dahl as *S. robusta* evidenced they are specimens of *S. hastata*. Furthermore, they were collected in 1962, seven years after the description of *S. robusta*, and thus could not be considered paratypes].

Remarks: Dahl identified as *S. robusta* specimens from the lots CAS 149505 (collected in 1956) and CAS 149506 (collected in 1957). Those specimens were also analyzed and none of them matches Dahl’s diagnosis for this species, being individuals of *Odontostilbe dialeptura* (CAS 149505) and *S. hastata* (CAS 149503, CAS 149506). Considering the uncertainty of the diagnosis elaborated by Dahl for his new species, the absence of type material, and Dahl’s misidentifications of *Saccoderma hastata* as *S. robusta*, we herein consider the latter as species *inquirenda* (*Saccoderma*).

SCHULTZITES Géry, 1964

MMF **Marinho**

Schultzites Géry, 1964c:31. Type species: *Schultzites axelrodi* Géry, 1964. Type by original designation. Gender: Masculine.

Schultzites axelrodi Géry, 1964

Schultzites axelrodi Géry, 1964c:32, figs. 6–7. Type locality: About 200 miles east of Bogotá, Colombia, in the upper Rio Meta drainage. Holotype: USNM 198642. Distribution: 305 (Géry, 1964c).

SCISSOR Günther, 1864

FCP **Dagosta**

Scissor Günther, 1864:331. Type species: *Scissor macrocephalus* Günther, 1864. Type by monotypy. Gender: Masculine.

Scissor macrocephalus Günther, 1864

Scissor macrocephalus Günther, 1864:331. Type locality: This specimen was received without any information on its locality, but as all the specimens from the same source were from Suriname, it is probable that this species also comes from that country. Holotype: BMNH 1858.6.14.1.

Distribution: Unknown.

Remarks: Appeared first in page 279 in a key. The species is known only from the holotype. See Rosen (1972) for further details.

SCOPAEOCHARAX Weitzman, Fink, 1985

NA **Menezes, P** **Camelier**

Scopaeocharax Weitzman, Fink, 1985:56. Type species: *Tyttocharax rhinodus* Böhlke, 1958. Type by original designation. Gender: Masculine.

Scopaeocharax atopodus (Böhlke, 1958)

Tyttocharax atopodus Böhlke, 1958c:323, fig. 1 (bottom). Type locality: Huanuco; vicinity of Tingo Maria, main stream of Río Tullamayo near Puerto Nuevo. [Peru]. Holotype: ANSP 78714.

Distribution: 312 (Böhlke, 1958c; Weitzman, 2003).

Scopaeocharax rhinodus (Böhlke, 1958)

Tyttocharax rhinodus Böhlke, 1958c:320, fig. 1 (top & center). Type locality: Prov. Huanuco: vicinity of Tingo Maria; Cava de Pavos, Quebrada de Puente Perez; about 1/4 mile above Río Huallaga. [Peru]. Holotype: ANSP 78707.

Distribution: 312 (Böhlke, 1958c; Weitzman, 2003).

SERRABRYCON Vari, 1986

O Santos

Serrabrycon Vari, 1986:329. Type species: *Serrabrycon magoi* Vari, 1986. Type by original designation. Gender: Masculine.

Serrabrycon magoi Vari, 1986

Serrabrycon magoi Vari, 1986:329, figs. 1–3. Type locality: Venezuela, Territorio Federal Amazonas, Departamento Río Negro, lower portion of Caño Manu, which drains into the Río Casiquiare about 250 m upstream of Solano (approx. 2°00'N, 66°57'W). Holotype: MBUCV 14270.

Distribution: 307, 314 (Vari, 1986; Taphorn, 1992:324).

SERRAPINNUS Malabarba, 1998

FC Jerep, LR Malabarba, J Chuctaya

Serrapinnus Malabarba, 1998:214. Type species: *Chirodon piaba* Lütken, 1875. Type by original designation. Gender: Masculine.

Serrapinnus aster Malabarba, Jerep, 2014

Serrapinnus aster Malabarba, Jerep, 2014:58, figs. 1, 2a–b, 3, 4a, 5a. Type locality: Brazil, Tocantins State, Município de Arraias, periodic lake at confluence of rio Paraná and rio Bezerra, rio Tocantins drainage. Holotype: MZUSP 115011.

Distribution: 324 (Malabarba, Jerep, 2014).

Serrapinnus calliurus (Boulenger, 1900)

Chirodon calliurus Boulenger, 1900a:3. Type locality: De nombreux individus proviennent de Corandasiño. D'autres avaient été recueillis par M. Borelli a San Lorenzo, dans la province de Jujuy. ["Corandasiño" (= Carandasiño, Mato Grosso, Brasil)]. Syntypes: BMNH 1900.4.14.78–83 (6); MSNG 37719 (2); MZUT 1368 (1); NMW 60345 (5), 77966 (2).

Distribution: 343, 345, 332, 334 (Malabarba, 2003).

Serrapinnus gracilis (Géry, 1960)

Cheirodon gracilis Géry, 1960f:29, Pl. 2 (fig. 4), figs. 12–13. Type locality: crique Sable, Upper Mana. [Sable Creek, Upper Mana, French Guiana]. Holotype: SMF 4785.

Distribution: 311 (Malabarba, 2003).

Serrapinnus heterodon (Eigenmann, 1915)

Holesthes heterodon Eigenmann, 1915:87, fig. 32, Pl. 15 (fig. 2). Type locality: Jaguarua, Rio Grande emptying into Rio Parana. [Brazil]. Holotype: FMNH 57890.

Odontostile iheringi Fowler, 1941b:183, fig. 93 (pg 181). Type locality: Rio Jaguaribe, Russas, Ceara. [Brazil]. Holotype: ANSP 69539. Fowler (1941:336) Erratas: genus name misspelled in the original description of species.

Distribution: 344, 327 (Malabarba, 2003).

Serrapinnus kriegi (Schindler, 1937)

Cheirodon kriegi Schindler, 1937:106. Type locality: Centurion (Nordostparaguay). [Paraguay; Neumann (2011:244) noted further information on the type locality made available in Schindler (1938) including a map of the exact position (Loc. 9): “Estancia San Luis de la Sierra, Apabergland [Apa Mountains], (Paraguay); mit Exkursionen in nördl. Richtung zu den Punkte Centurión und Estrella am Rio Apa. (with excursions in northern direction to locations Centurión and Estrella at Rio Apa)”.]. Lectotype: ZSM 5859 [Designated by Schindler, 1938].

Distribution: 332, 333, 343 (Bertaco *et al.*, 2016; Malabarba, 2003; Serra *et al.*, 2018).

Serrapinnus littoris (Géry, 1960)

Cheirodon gracilis littoris Géry, 1960f:31, fig. 14. Type locality: “Dégrad Cacao” Comté River. [French Guiana]. Holotype: SMF 4783.

Distribution: 311 (Malabarba, 2003).

Serrapinnus lucindai Jerep, Malabarba, 2014

Serrapinnus lucindai Jerep, Malabarba, in Malabarba, Jerep, 2014:64, figs. 2c–d, 4b, 5b, 6, 7. Type locality: Município de Piranhas, tributary of rio Piranhas, between Piranhas and Bom Jardim de Goiás, 16°21'43.3”S, 51°55'10.2972”W. [Brazil, Goiás State]. Holotype: UFRGS 19198.

Distribution: 324 (Malabarba, Jerep, 2014).

Serrapinnus malabarbai Jerep, Dagosta, Ohara, 2018

Serrapinnus malabarbai Jerep, Dagosta, Ohara, 2018:181, figs. 1–4, 5A. Type locality: Brazil, Mato Grosso, Primavera do Leste, Rio Araguaia basin, Rio Suspiro, tributary to Rio das Mortes, 14°52'30.92”S, 54°05'01.40”W. Holotype: MZUSP 117117.

Distribution: 324 (Jerep, Dagosta, Ohara, 2018).

Serrapinnus microdon (Eigenmann, 1915)

Cheirodon microdon Eigenmann, 1915:80, fig. 29, Pl. 14 (fig. 1). Type locality: Caceres, Upper Paraguay. [Brazil]. Holotype: FMNH 57867.

Distribution: 343 (Malabarba, 2003).

Serrapinnus micropterus (Eigenmann, 1907)

Cheirodon micropterus Eigenmann, in Eigenmann, Ogle, 1907:9. Type locality: Santarem, Brazil. Holotype: CAS 59780.

Cheirodon madeirae Eigenmann, 1915:76, Pl. 13 (fig. 1). Type locality: San Joaquin, Bolivia. Holotype: FMNH 57864.

Distribution: 318, 319, 316, 321, 320, 322 (Malabarba, 2003; Lima *et al.*, 2013).

Serrapinnus notomelas (Eigenmann, 1915)

Cheirodon notomelas Eigenmann, 1915:74, fig. 26, Pl. 12 (fig. 2). Type locality: collected in a lake, four miles from Miguel Calmone, Tiete basin. [The old village Miguel Calmone is currently known as the city of Avanhandava, Brazil].

Holotype: FMNH 57829.

Distribution: 344 (Malabarba, 2003).

Serrapinnus piaba (Lütken, 1875)

Chirodon piaba Lütken, 1875c:134 [8]. Type locality: in rivulu flumini Rio das Velhas afluenti captum. [Brazil]. Holotype: There is no reference to type specimens in the original description. The Zoologisk Museum, Copenhagen (<http://www.daim.snm.ku.dk/search-in-types>), lists ZMUC 663 as the holotype of the species.

Hyphessobrycon latus Fowler, 1941b:185, fig. 95. Type locality: Fortaleza, Ceará. [Fortaleza, Ceará State, Brazil]. Holotype: ANSP 69578. A synonym of *Serrapinnus piaba* (H.A. Britski, pers. comm.).

Hyphessobrycon iheringi Fowler, 1941b:186, fig. 96. Type locality: Fortaleza, Ceará. [Fortaleza, Ceará State, Brazil]. Holotype: ANSP 69579. [Holotype is a female of *Serrapinnus piaba* (F. Jerep pers. obs.)]

Distribution: 326a, 327a (Malabarba, 1994).

Serrapinnus potiguar Jerep, Malabarba, 2014

Serrapinnus potiguar Jerep, Malabarba, 2014:302, figs. 1–5. Type locality: Brazil, Rio Grande do Norte, Taipu, rio Ceará-Mirim, district of Umari, 05°37'47"S, 35°37'09"W. Holotype: MCP 48054.

Distribution: 326 (Jerep, Malabarba, 2014).

Serrapinnus sterbai Zarske, 2012

Serrapinnus sterbai Zarske, 2012c:4, figs. 1–5. Type locality: Araguaya-Gebiet, Ostbrasilien(?), Import Firma Glaser. [Certainly, Araguaia River drainage, Brazil [imported to Germany]]. Holotype: UFRJ 8516. [The specimen figured as the holotype in Zarske (2012c: fig. 1) is a paratype male (MTD F 32658–32664) and not the holotype (UFRJ 8516). The specimen labeled as MTD 32657 in fig. 2 is a paratype of MTD F 32658–32664. Specimens figured as the holotype (UFRJ 8516) in Zarske (2012c: figs. 3 and 4) are correct. See Malabarba, Jerep (2014)].

Distribution: 324 (Malabarba, Jerep, 2014).

Serrapinnus tocantinensis Malabarba, Jerep, 2014

Serrapinnus tocantinensis Malabarba, Jerep, 2014:71, figs. 2g–h, 4d, 5d, 10, 11. Type locality: Brazil, Mato Grosso, Município de Barra do Garças, córrego Fundo, tributary of rio das Garças, 16°52'40.5"S, 52°18'15.1"W. Holotype: UFRGS 16442.

Distribution: 324 (Malabarba, Jerep, 2014).

Serrapinnus zanatae Jerep, Camelier, Malabarba, 2016

Serrapinnus zanatae Jerep, Camelier, Malabarba, 2016:290, figs. 1–5. Type locality: Brazil: Minas Gerais State: Salinas: rio Bananal, tributary of the rio Salinas in a dam nearby Salinas, rio Jequitinhonha basin; 16°08'36.2"S, 42°16'59.7"W; 478 m above sea level. Holotype: MZUSP 116000.

Distribution: 328 (Jerep *et al.*, 2016).

SPINTHEROBOLUS Eigenmann, 1911 **FC Jerep, LR Malabarba, J Chuctaya**

Spintherobolus Eigenmann, 1911c:167. Type species: *Spintherobolus papilliferus* Eigenmann, 1911. Type by original designation. Gender: Masculine.

Spintherobolus ankoseion Weitzman, Malabarba, 1999

Spintherobolus ankoseion Weitzman, Malabarba, 1999:26, figs. 29–31. Type locality: creek in the forest, near Barra do Sai, between Barra do Sai and Itapema, northern Santa Catarina, Brazil. Holotype: MZUSP 35430.

Distribution: 331 (Weitzman, Malabarba, 1999).

Spintherobolus broccae Myers, 1925

Spintherobolus broccae Myers, 1925:143, Pl. 10. Type locality: Hills behind Rio de Janeiro. [Brazil]. Holotype: FMNH 58863.

Distribution: 330, 352 (Weitzman, Malabarba, 1999).

Spintherobolus leptoura Weitzman, Malabarba, 1999

Spintherobolus leptoura Weitzman, Malabarba, 1999:35, figs. 36–37. Type locality: rio Quilombo, fazenda Dalila, Registro, São Paulo, Brazil. Holotype: MZUSP 41854.

Distribution: 330 (Weitzman, Malabarba, 1999).

Spintherobolus papilliferus Eigenmann, 1911

Spintherobolus papilliferus Eigenmann, 1911c:167, Pl. 5 (figs. 1–4). Type locality: Alto da Serra, São Paulo. [upper rio Tietê basin, São Paulo State, Brazil]. Holotype: FMNH 104802.

Distribution: 344 (Weitzman, Malabarba, 1999).

STETHAPRION Cope, 1870**RE Reis**

Stethaprion Cope, 1870:562. Type species: *Stethaprion erythroptus* Cope, 1870. Type by monotypy. Gender: Masculine.

Stethaprion crenatum Eigenmann, 1916

Stethaprion crenatum Eigenmann, 1916a:80, figs. 2–3, Pl. 16. Type locality: San Joaquin, Bolivia. Holotype: FMNH 56413.

Stethaprion innesi Myers, 1932:149, fig. unnumbered. Type locality: Lower Amazon. Holotype: SU 25228.

Distribution: 316, 319, 323 (Reis, 1989).

Stethaprion erythroptus Cope, 1870

Stethaprion erythroptus Cope, 1870:562, figure unnumbered. Type locality: Pebas. [Peru]. Holotype: ANSP 8031. [Fowler, 1907:482, fig. 59; Böhlke, 1984:45].

Stethaprion chryseum Cope, 1872b:261. Type locality: Ambyiacu River, Ecuador. [Rio Ampyiacu, Peru]. Holotype: ANSP 8030. [Fowler (1907:482); Böhlke (1984:44)].

Distribution: 316 (Reis, 1989).

STICHONODON Eigenmann, 1903**MMF Marinho**

Luetkenia Steindachner, 1876c:85. Type species: *Luetkenia insignis* Steindachner, 1876. Type by monotypy. Gender: Feminine. Additional comments: Preoccupied by *Lütkenia* Claus, 1864 in Crustacea. Replaced by *Stichonodon* Eigenmann, 1903.

Stichonodon Eigenmann, 1903:146. Type species: *Luetkenia insignis* Steindachner, 1876. Type by being a replacement name. Gender: Masculine. Additional

comments: Replacement for *Lütkenia* Claus, 1864 preoccupied in Crustacea.

Stichonodon insignis (Steindachner, 1876)

Luetkenia insignis Steindachner, 1876:86c [38], Pl. 8 (fig. 1). Type locality: Amazonenstrom bei Tabatinga und Santarem. [Amazon River at Tabatinga (Amazonas State) and Santarém (Pará State), Brazil]. Syntypes: (several) NMW; ZSM 23662 (1).

Distribution: 316 (Steindachner, 1876c).

STYGICHTHYS Brittan, Böhlke, 1965

CR Moreira

Stygichthys Brittan, Böhlke, 1965:1. Type species: *Stygichthys typhlops* Brittan, Böhlke, 1965. Type by original designation. Gender: Masculine.

Stygichthys typhlops Brittan, Böhlke, 1965

Stygichthys typhlops Brittan, Böhlke, 1965:2, figs. 1–2. Type locality: Jaíba, state of Minas Gerais, Brazil. [Córrego Escuro (subterranean), Rio Verde Grande system, Rio São Francisco basin, at Jaíba, Minas Gerais, Brazil. Additional information on the type locality in Moreira *et al.* (2010)]. Holotype: ANSP 100891.

Distribution: 327 (Moreira *et al.*, 2010).

TETRAGONOPTERUS Cuvier, 1816

BF Melo, GSC Silva, RC Benine

Tetragonopterus Cuvier, 1816:166. Type species: *Tetragonopterus argenteus* Cuvier, 1816. Type by monotypy. Gender: Masculine.

Tetragonopterus anostomus Silva, Benine, 2011

Tetragonopterus anostomus Silva, Benine, 2011:50, figs. 1–2a. Type locality: Brazil: Goiás state, Nova Crixás, rio Preto, rio Araguaia basin, 14° 22'18"S, 050° 39'13"W. Holotype: MZUSP 108957.

Tetragonopterus akamai Araújo, Lucinda, 2014:310, figs 1–2. Type locality: Brazil, Tocantins, Peixe, rio Tocantins close to confluence with rio Santa Tereza, 11° 47'27"S, 48° 37'2"W. Holotype: MCP 48033. Synonymy proposed by Silva *et al.* (2016).

Distribution: 324 (Silva *et al.*, 2016).

Remarks: Phylogenetic relationships in Melo *et al.* (2016).

Tetragonopterus araguaiensis Silva, Melo, Oliveira, Benine, 2013

Tetragonopterus araguaiensis Silva, Melo, Oliveira, Benine, 2013:1615, figs. 2a, 3b, 5. Type locality: Brazil, Goiás, Aruanã, Rio Araguaia, Amazon basin, 14° 54'27"S, 51° 04'52"W. Holotype: MZUSP 4820.

Distribution: 324 (Silva *et al.*, 2016).

Remarks: Phylogenetic relationships in Melo *et al.* (2016).

Tetragonopterus argenteus Cuvier, 1816

Tetragonopterus argenteus Cuvier, 1816:166. Type locality: Not given. MHNH 9807. [Specimen treated as holotype in Silva *et al.* (2016, fig3A)].

Tetragonopterus sawa Castelnau, 1855:65, Pl. 33 (fig. 1). Type locality: rio Crixas qui

- se jette dans L'Araguay [Brazil]. Holotype: MNHN A-9819.
- Tetragonopterus huberi* Steindachner, 1909:172. Type locality: Rio Purus. [Amazon Basin, Brazil]. Syntypes: NMW 57532 (1).
- Distribution: 306, 307, 310, 314*, 315, 316, 317, 318, 319*, 321, 322, 324, 325, 326, 343, 345 (Silva *et al.*, 2016).
- Remarks: Phylogenetic relationships in Melo *et al.* (2016).
- Tetragonopterus carvalhoi*** Melo, Benine, Mariguela, Oliveira, 2011
- Tetragonopterus carvalhoi* Melo, Benine, Mariguela, Oliveira, 2011:50, figs. 1, 2a.
- Type locality: Brazil, Amapá, Laranjal do Jari, Igarapé Iratapuru, rio Jari, Amazon basin, 00°33'30"S, 52°34'45"W. Holotype: MZUSP 102268.
- Distribution: 315 (Silva *et al.*, 2016).
- Remarks: Phylogenetic relationships in Melo *et al.* (2016).
- Tetragonopterus chalceus*** Spix, Agassiz, 1829
- Tetragonopterus chalceus* Spix, Agassiz, 1829:70, Pl. 33 (fig. 1). Type locality: Habitat in Brasiliae aequinoctialis fluxiis. [Type locality specified by Koerber, 2021:93 as mouth of the Uruará canal to the Amazon River at the Vira Sebo community, village of Canaã, city of Prainha, Pará state, Brazil. DMS 01°53'33"S, 53°29'17"W; DDD -1.892554, -53.487991]. Syntypes: MHNN 785 (1).
- Tetragonopterus gibbosus* Steindachner, 1877:562 [4], Pl. 1 (fig. 1). Type locality: Rio Parahyba. [Rio Parnaíba, Brazil (Silva *et al.*, 2016)]. Syntypes: (several) NMW 57518–19 (2, 1).
- Distribution: 307, 308, 310, 311, 314, 315, 316, 319*, 320, 321, 322, 323*, 324 (Silva *et al.*, 2016).
- Remarks: Author of species name is Agassiz according to Kottelat (1988), author as Spix, Agassiz in Reis, 2003. Phylogenetic relationships in Melo *et al.* (2016).
- Tetragonopterus daguae*** (Eigenmann, 1913)
- Astyanax daguae* Eigenmann, 1913:23. Type locality: Cordova. [Colombia]. Holotype: FMNH 56251.
- Distribution: 302 (Eigenmann, 1913).
- Remarks: Placed in *Tetragonopterus* by Terán *et al.* (2020:5).
- Tetragonopterus denticulatus*** Silva, Melo, Oliveira, Benine, 2013
- Tetragonopterus denticulatus* Silva, Melo, Oliveira, Benine, 2013:1616, figs. 1, 2b, 3e. Type locality: Brazil, Goiás, Aragarças, Rio Araguaia, Amazon basin, 15°53'31,5"S, 52°15'02,0"W. Holotype: MZUSP 111002.
- Distribution: 324 (Silva *et al.*, 2016).
- Remarks: Phylogenetic relationships in Melo *et al.* (2016).
- Tetragonopterus franciscoensis*** Silva, Melo, Oliveira, Benine, 2016
- Tetragonopterus franciscoensis* Silva, Melo, Oliveira, Benine, 2016:32, fig. 12. Type locality: Brazil, Minas Gerais, Três Marias, Rio São Francisco, 18°30'S, 45°17'W. Holotype: MZUSP 120566.
- Distribution: 327, 328 (Silva *et al.*, 2016).
- Remarks: Phylogenetic placement in Melo *et al.* (2016).
- Tetragonopterus georgiae*** (Géry, 1965)
- Moenkhausia georgiae* Géry, 1965d:104, Pl. 1 (fig. 3). Type locality: Between "Saut-Chien" and "Saut-Topi-Topi", Middle Mana River, French Guiana. Holotype: ZMA 104223.

Distribution: 308, 310, 311, 315 (Silva *et al.*, 2016; Planquette *et al.*, 1996).

Remarks: Examination of the paratypes of *Moenkhausia georgiae* (MHNG) revealed the presence of strong downward curvature at the anterior portion of the lateral line and a flat prepelvic area. These conditions are typical of species of *Tetragonopterus*. In addition, Melo *et al.* (2011) documented the presence of three supraneural bones in *M. georgiae*, a feature also shared with some species of *Tetragonopterus*. Identification key in Géry (1977). See Planquette *et al.* (1966) for notes on taxonomy, ecology, and distribution. Phylogenetic placement in Melo *et al.* (2016).

Tetragonopterus juruena Silva, Melo, Oliveira, Benine, 2016

Tetragonopterus juruena Silva, Melo, Oliveira, Benine, 2016:40, fig. 15. Type locality: Brazil, Mato Grosso, Sapezal, Rio Juruena, upper Rio Tapajós, 12°50'59"S, 58°55'36"W. Holotype: LIRP 14033.

Distribution: 320 (Silva *et al.*, 2016).

Tetragonopterus kuluene Silva, Melo, Oliveira, Benine, 2016

Tetragonopterus kuluene Silva, Melo, Oliveira, Benine, 2016:35, fig. 13. Type locality: Brazil, Mato Grosso, Paranatinga, Rio Culuene, Rio Xingu basin, 13°49'00"S, 53°15'00"W. Holotype: MZUSP 120567.

Distribution: 322 (Silva *et al.*, 2016).

Remarks: Phylogenetic placement in Melo *et al.* (2016).

Tetragonopterus manaos Urbanski, Melo, Silva, Benine, 2018

Tetragonopterus manaos Urbanski, Melo, Silva, Benine, 2018:[2], figs. 1–3. Type locality: Brazil, Amazonas, Manaus, Anavilhanas National Park, Igapó of rio Negro, 02°42'S, 60°45'W. Holotype: MZUSP 117250.

Distribution: 314, 316 (Urbanski *et al.*, 2018).

Tetragonopterus ommatus Silva, Melo, Oliveira, Benine, 2016

Tetragonopterus ommatus Silva, Melo, Oliveira, Benine, 2016:38, fig. 14. Type locality: Brazil, Pará, Itaituba, Rio Tapajós, 4°21'34"S, 56°10'03"W. Holotype: MZUSP 92667.

Distribution: 320 (Silva *et al.*, 2016).

Remarks: Phylogenetic placement in Melo *et al.* (2016).

Tetragonopterus rarus (Zarske, Géry, Isbrücker, 2004)

Moenkhausia rara Zarske, Géry, Isbrücker, 2004:21, figs. 1–2, 6. Type locality: Surinam, Marowijne, rapid in Oelemari (Ulemari) River, one day upstream of Oelemari (Ulemari), air strip. Holotype: IRSNB 830.

Tetragonopterus lemniscatus Benine, Pelicão, Vari, 2004:340, figs. 1, 2. Type locality: Suriname, Nickerie District, tributary to Sisa Creek, north side of stream approximately 700 m downstream of crossing of road Amotopo to Camp Geologie, approximately 3°42'N, 57°42'W. Holotype: USNM 225366.

Distribution: 311, 315 (Silva *et al.*, 2016).

Remarks: Priority of *Moenkhausia rara* over *Tetragonopterus lemniscatus* given by date of publication (08 Nov 2004 *vs.* 07 Dec 2004, respectively, see Zarske, Géry 2006c:8). Phylogenetic relationships discussed by Melo *et al.* (2016).

THAYERIA Eigenmann, 1908

CR Moreira

Thayeria Eigenmann, 1908:94. Type species: *Thayeria obliquus* [*obliqua*] Eigenmann, 1908. Type by original designation. Gender: Feminine.

Thayeria boehlkei Weitzman, 1957

Thayeria boehlkei Weitzman, 1957:391, fig. 1. Type locality: No definite locality. [Aquarium specimen imported into USA without locality]. Holotype: CAS-SU 49907.

Distribution: 320*, 322*, 324 (Reis *et al.*, 2003, C. Moreira, pers. obs.).

Thayeria ifati Géry, 1959

Thayeria ifati Géry, 1959b:128, figs. 1–3. Type locality: “Gaa Kaba”, Maroni, Guiana, north of the 4th parallel. [Montagnes Françaises Gaa Kaba, Grand-Santi, Saint Laurent Du Maroni, French Guiana, Maroni River basin]. Holotype: SMF 4900.

Distribution: 311 (Planquette *et al.*, 1996: 322).

Thayeria obliqua Eigenmann, 1908

Thayeria obliquus Eigenmann, 1908:94. Type locality: Obidos. [Amazon River basin, Pará, Brazil]. Syntypes: (many) MCZ 20841 (20), USNM 120295 (6).

Thayeria sanctaemariae Ladiges, 1951:129, fig. Type locality: Staate Goyaz (Brasilien) südlich Carolina bei der Ortschaft St. Maria. [Type locality probably incorrect, since no specimen with this color pattern is found in the rio Tocantins basin. Holotype sent to Ladiges by Fred Cochu, a commercial aquarium trader]. Holotype: ZSM 5893.

Distribution: 313*, 314*, 316*, 318*, 319*, 321* (C. Moreira, pers. obs.).

Thayeria tapajonica Moreira, Lima, 2017

Thayeria tapajonica Moreira, Lima, 2017b:138, figs. 1, 2A, 3. Type locality: Brazil, Pará, Jacareacanga, rio Cristalino (tributary of rio São Benedito), pousada Thaimaçu, 9° 4'46”S, 56° 31'51”W. Holotype: MZUSP 122872.

Distribution: 316, 320 (Moreira, Lima, 2017b).

THRISOBRYCON Böhlke, 1953

CR Moreira

Thrissobrycon Böhlke, 1953:168. Type species: *Thrissobrycon pectinifer* Böhlke, 1953. Type by original designation. Gender: Masculine.

Thrissobrycon pectinifer Böhlke, 1953

Thrissobrycon pectinifer Böhlke, 1953d:169, fig. 1. Type locality: Upper Rio Negro at Cucuhy (São Antonio), Brazil. [Rio Negro at Cucui, São Gabriel da Cachoeira, Amazonas, Brazil]. Holotype: SU 16944.

Distribution: 307, 308*, 310, 314, 321* (Dagosta, de Pinna, 2019; C. Moreira, pers. obs.).

TROCHILOCHARAX Zarske, 2010

FCT Lima

Trochilocharax Zarske, 2010:76. Type species: *Trochilocharax ornatus* Zarske, 2010. Type by original designation. Gender: Masculine.

Trochilocharax ornatus Zarske, 2010

Trochilocharax ornatus Zarske, 2010:77, figs. 1–10. Type locality: Peruimport. [Peru, Depto. Loreto, exact type locality unknown, either Río Nanay or near Pebas (or both) (Zarske, 2010)]. Holotype: MTD F32167.
Distribution: 316 (Zarske, 2010).

TUCANOICHTHYS Géry, Römer, 1997

MMF **Marinho**

Tucanoichthys Géry, Römer, 1997:66. Type species: *Tucanoichthys tucano* Géry, Römer, 1997. Type by original designation. Gender: Masculine.

Tucanoichthys tucano Géry, Römer, 1997

Tucanoichthys tucano Géry, Römer, 1997:66, figs. 1, 5–6. Type locality: Brook emptying into Igarape Yavuari River, tributary of River Uaupés, upper Negro River basin, Amazonas, Brazil, 0° 14'31"N, 68° 03'48"W. [A small forest brook emptying into Igarapé Yavuari, the first left tributary of rio Uaupés downstream Tucano settlement of Açaí (Géry, Römer, 1997)]. Holotype: MZUSP 51321.
Distribution: 314 (Géry, Römer, 1997).

TYTTOBRYCON Géry, 1973

MMF **Marinho**

Tyttobrycon Géry, 1973:117. Type species: *Tyttobrycon xeruini* Géry, 1973. Type by original designation. Gender: Masculine.

Tyttobrycon dorsimaculatus Géry, 1973

Tyttobrycon dorsimaculatus Géry, 1973:118, figs. 20–22. Type locality: “Hoffmann Lagune” on the rio Chaparé, tributary of the rio Mamoré (into rio Madeira) below Todos Santos, Central Bolivia, approximately 16° 45'S, 65° 7'W. Holotype: ZFMK 2916.

Distribution: 318 (Géry, 1973).

Remarks: Comments on relationships in Marinho *et al.* (2013).

Tyttobrycon hamatus Géry, 1973

Tyttobrycon hamatus Géry, 1973:129, figs. 31–35. Type locality: upper Amazon basin, Loreto District of Peru, in some tributary of the Marañon not far from Iquitos (precise locality unknown). Holotype: MHNG 2172.30.

Distribution: 316, 319, 321 (Géry, 1973; Lima *et al.*, 2013).

Tyttobrycon marajoara Marinho, Bastos, Menezes, 2013

Tyttobrycon marajoara Marinho, Bastos, Menezes, 2013:740, figs.1–9. Type locality: Brazil, Pará State, Marajó Island, Salvaterra, Vila União, igarapé Olho d'água, 0° 50'51"S, 48° 34'1"W. Holotype: MZUSP 109196.

Distribution: 323 (Marinho *et al.*, 2013).

Tyttobrycon shibattai Abrahão, Pastana, Marinho, 2019

Tyttobrycon shibattai Abrahão, Pastana, Marinho, 2019:3, figs. 1–6, 9. Type locality: Brazil, Acre, Xapuri, Seringal Cachoeira road, Rio Iná, tributary of Rio Abunã, Rio Madeira drainage, Rio Amazonas basin, 10° 45'42.7S, 68° 23'33.7"W. Holotype: MZUSP 125268.

Distribution: 316 (Abrahão *et al.*, 2019).

***Tyttobrycon spinosus* Géry, 1973**

Tyttobrycon spinosus Géry, 1973:121, figs. 23–26. Type locality: Brook between upper rios Chaparé and Chimoré (or Ichilo), tributary of rio Mamoré (into rio Madeira), east of Todos Santos, Central Bolivia, approximately 16°47'S, 65°W. Holotype: ZFMK 3000.

Distribution: 319 (Géry, 1973).

***Tyttobrycon xeruini* Géry, 1973**

Tyttobrycon xeruini Géry, 1973:126, figs. 27–30. Type locality: middle rio Negro basin, rio Novo, tributary of the rio Xeruini (which runs parallel with the lower part of the rio Branco, and is almost confounded with it). [Brazil]. Holotype: MHNG 2229.10.

Distribution: 314*, 315 (Géry, 1973; MMF Marinho, pers. obs.).

TYTTOCHARAX Fowler, 1913**NA Menezes, P Camelier**

***Tyttocharax* Fowler, 1913b:563.** Type species: *Tyttocharax madeirae* Fowler, 1913. Type by original designation. Gender: Masculine.

***Microcaelurus* Miranda-Ribeiro, 1939:362.** Type species: *Microcaelurus odontocheilus* Miranda-Ribeiro, 1939. Type by monotypy. Gender: Masculine.

***Tyttocharax cochui* (Ladiges, 1950)**

Microbrycon cochui Ladiges, 1950:306, figs. 1–3. Type locality: Oberlauf des Amazonas. Syntypes: MHNG 2187.75 (1, ex ZSM), ZSM 5894–99 (6 now 5).

Tyttocharax boehlkei Géry, 1965c:195, Pls. 18–19 (figs. 20–21). Type locality: Igarapé Prêto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7208.

Distribution: 316 (Ladiges, 1950; Géry, 1965c; Weitzman, 2003; Román-Valencia *et al.*, 2012:524).

Remarks: Exact locality of distribution not known.

***Tyttocharax madeirae* Fowler, 1913**

Tyttocharax madeirae Fowler, 1913b:564, fig. 20. Type locality: Tributary of the Rio Madeira near Porto Velho, Brazil. Holotype: ANSP 39305.

Microcaelurus odontocheilus Miranda-Ribeiro, 1939:362. Type locality: Amazonas. Lectotype: MNRJ 3752 (male). [Designated by Weitzman, Fink, 1985:108].

Distribution: 321 (Fowler, 1913b; Weitzman, 2003).

***Tyttocharax metae* Román-Valencia, García-Alzate, Ruiz-C., Taphorn B., 2012**

Tyttocharax metae Román-Valencia, García-Alzate, Ruiz-C., Taphorn B., 2012:520, figs. 1–6. Type locality: Colombia, Meta, Vista Hermosa near Palestina, río Orinoco basin, río Güejar system, arroyo Pringamosal, tributary of arroyo Blanco 500 m below Palestina School, 03°05'22"N, 73°49'27"W, 240 m a.s.l. Holotype: IUQ 2581.

Distribution: 307 (Román-Valencia *et al.*, 2012).

***Tyttocharax tambopatensis* Weitzman, Ortega, 1995**

Tyttocharax tambopatensis Weitzman, Ortega, 1995:134, figs. 1–2. Type locality: Peru, Departamento de Madre de Dios, Provincia de Manu, Parque Nacional Manu, Pakitza Tachiagalli trail, Quebrada Trompetero; approx. 11°55'48"S,

71°15'18"W. Holotype: MUSM 5083.
Distribution: 312 (Weitzman, Ortega, 1995; Weitzman, 2003).

VARICHARAX Vanegas-Ríos, Faustino-Fuster, Meza-Vargas, Ortega, 2020

Varicharax Vanegas-Ríos, Faustino-Fuster, Meza-Vargas, Ortega, 2020. Type species:
Varicharax nigrolineatus Vanegas-Ríos, Faustino-Fuster, Meza-Vargas, Ortega,
2020. Type by original designation. Gender: Masculine.

Varicharax nigrolineatus Vanegas-Ríos, Faustino-Fuster, Meza-Vargas, Ortega, 2020
Varicharax nigrolineatus Vanegas-Ríos, Faustino-Fuster, Meza-Vargas, Ortega,
2020:391, figs. 1–4. Type locality: Peru, Loreto, Trompeteros, Yananmaca creek,
tributary of Río Corrientes, Río Marañón drainage 3° 12'15.46"S, 75° 40'27.09"W
approx. 204 m asl. Holotype. MUSM 60288.
Distribution: 316 (Vanegas-Ríos *et al.*, 2020).

XENAGONIATES Myers, 1942

CR Moreira

Xenagoniates Myers, 1942:90. Type species: *Xenagoniates bondi* Myers, 1942. Type by
original designation. Gender: Masculine.

Xenagoniates bondi Myers, 1942

Xenagoniates bondi Myers, 1942:90, fig. 1. Type locality: Rio Amana, 6 km. east of
Santa Barbara and 35 km. west of Maturin, Venezuela. Holotype: SU 36486.
Distribution: 307a, 309a (Quevedo, 2007).

XENUROBRYCON Myers, Miranda-Ribeiro, 1945

NA Menezes, P Camelier

Xenurobrycon Myers, Miranda-Ribeiro, 1945:2. Type species: *Xenurobrycon macropus*
Myers, Miranda-Ribeiro, 1945. Type by original designation. Gender: Masculine.

Xenurobrycon coracoralinae Moreira, 2005

Xenurobrycon coracoralinae Moreira, 2005:856, fig. 1. Type locality: Brazil, estado de
Goiás: município de Goiás, rio Agapito at BR-070 road, 13 km W of Goiás,
tributary of rio Vermelho, rio Araguaia basin (approximately 15°56'S, 50°09'W).
Holotype: MZUSP 83366.

Distribution: 324 (Moreira, 2005).

Xenurobrycon heterodon Weitzman, Fink, 1985

Xenurobrycon heterodon Weitzman, Fink, 1985:88, figs. 5, 12, 30, 34e, 55, 65. Type
locality: Pastaza: Río Bobonaza at Sarayacu, 1°16'S, 78°31'W. [Sarayacu (or
Sarayaku) is a territory located in Pastaza, a province in the Amazonic region of
Ecuador]. Holotype: KU 17925.

Distribution: 312 (Weitzman, Fink, 1985; Weitzman, 2003).

Xenurobrycon macropus Myers, Miranda-Ribeiro, 1945

Xenurobrycon macropus Myers, Miranda-Ribeiro, 1945:5, fig. 1. Type locality: Rio
Bodoquena, Matto Grosso. [Brazil. Matto is now written Mato in Portuguese].

Holotype: MNRJ.

Distribution: 343 (Myers, Miranda-Ribeiro, 1945; Weitzman, 2003).

Xenrobrycon polyancistrus Weitzman, 1987

Xenrobrycon polyancistrus Weitzman, 1987:113, figs. 1–3. Type locality: Bolivia, Estado Beni, Laguna Motacusal, Río Isiboro, about 15°40'S, 65°00'W. Holotype: MNHN 1986-0452.

Distribution: 318 (Weitzman, 1987; Weitzman, 2003).

Xenrobrycon pteropus Weitzman, Fink, 1985

Xenrobrycon pteropus Weitzman, Fink, 1985:85, figs. 4, 29, 43, 64b, 78. Type locality: Amazonas: an igarapé in Fonte Boa, approximately 2°30'S, 67°2'W. [Brazil]. Holotype: MZUSP 12412.

Distribution: 316 (Weitzman, Fink, 1985; Weitzman, 2003).

Xenrobrycon varii Mendonça, Peixoto, Dutra, Netto-Ferreira, 2016

Xenrobrycon varii Mendonça, Peixoto, Dutra, Netto-Ferreira, 2016:[2], figs. 1–5. Type locality: Brazil, Pará, Jacareacanga, Vila de Mamãe Anã, tributary of rio Tapajós, 5°42'22"S, 57°22'30"W. Holotype: MPEG 32825.

Distribution: 320 (Mendonça *et al.*, 2016).

Genus *inquirendum* (Characidae)

Dermatocheir Durbin, 1909:55. Type species: *Dermatocheir catablepta* Durbin, 1909. Type by original designation. Gender: Feminine. [See comment on *Dermatocheir catablepta* Durbin, 1909, below]

Species *inquirendae* (Characidae) **M Toledo-Piza, FCT Lima, MMF Marinho, FR Carvalho, BF Melo, GSC Silva, RC Benine**

Astyanax notemigonoides Fowler, 1911b:506, fig. 4. Type locality: Affluent of the Chimbo River, near Bucay, Province of Guayas, Ecuador. Holotype: ANSP 39110.

Astyanax scierus Fowler, 1911b:509, fig. 5. Type locality: Affluent of the Chimbo River, near Bucay, Province of Guayas, Ecuador. Holotype: ANSP 39065.

Chalceus fasciatus Jardine, in Schomburgk, 1841:215. Type locality: Rio Padauri [correct name is rio Padauari, tributary to rio Negro, Amazonas, Brazil]. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:160).

Chalceus flavicolis Posada, 1909:303. Type locality: Cauca, Colombia. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:178).

Chalceus latus Jardine, in Schomburgk, 1841:214. Type locality: Padauri, a tributary of Rio Negro [correct name is rio Padauari, Amazonas, Brazil]. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:159).

Chalceus taeniatus Jardine, in Schomburgk, 1841:210. Type locality: River Essequibo, as well as of Rios Negro and Branco. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:159).

Characinus curimata Lacepede, 1803:271, 279. Type locality: Surinam. [on page 280, Suriname]. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:159).

Characinus piabucu Lacepede, 1803:269, 272. Type locality: dans les rivières de l'Amérique méridionale. [on page 275]. No types known.

Remarks: Status of species taken from Lima *et al.* (2003:159).

Dermatocheir catablepta Durbin, 1909:55. Type locality: Tumatumari, above the falls. [Guyana, Potaro-Siparuni, Potaro River]. Holotype: FMNH 53553.

Remarks: Géry (1977:462) and Lima *et al.* (2003:135) considered the species as valid and included in the genus *Hyphessobrycon*. However, the holotype of *Dermatocheir catablepta* is a larval specimen, which presents a complete lateral line. No additional material of the species has been identified since its original description (see comments on the species in Weitzman, Fink, 1987:650–651).

Hyphessobrycon maculicauda Ahl, 1936:22. Type locality: Mittelbrasilien. [Uncertain; it is not even sure whether the type locality should indeed lie at “central” states of Brazil or somewhere else in southeastern Brazil]. Holotype: at ZMB (not found). [The holotype is probably lost (Zarske, Géry, 1995:113)].

Remarks: Since the holotype is very likely lost (Zarske, Géry, 1995), the type locality is very vague and the original description does not allow its identification with any congener (see Lima, Moreira, 2003:31).

Paragoniates muelleri Steindachner, 1876c:120 [72]. Type locality: Amazonenstrom bei Obidos. [Óbidos, Pará, Brazil]. Holotype: NMW 56535.

Tetragonopterus (Astyanax) riveti Pellegrin, 1907a:25. Type locality: Río Pove, Santo Domingo de los Colorados (560 mètres d'altitude, versant du Pacifique). Équateur. [Ecuador]. Holotype: MNHN 1904-0022.

Tetragonopterus artedii Valenciennes, in Cuvier, Valenciennes, 1850:128. Type locality: not given. [Specimen said to have originated from “Cabinet du Stathouder”. See Bauchot, Daget (1996) for details about this collection]. Syntypes: ?RMNH 1609 (1). [Syntype information according to Fricke *et al.*, 2022. Bauchot, Daget (1996) mentioned that specimen was not found in the collection of the MNHN, Paris].

Tetragonopterus astictus Ulrey, 1894:611. Type locality: Brazil. Holotype: whereabouts unknown.

Tetragonopterus branickii Steindachner, 1879b:151. Type locality: Zurumillo. [Ecuador-Peru border]. Syntypes: (several) NMW 57258 (2).

Tetragonopterus fuscoauratus Castelnau, 1855:66, Pl. 33 (fig. 2). Type locality: abondante dans les eaux douces des environs de Bahia. [Brazil]. Syntypes: MNHN A-9821 (8).

Tetragonopterus microstoma Günther, 1864:323. Type locality: Bahia. [Brazil]. Syntypes: (at least 15) BMNH, ZMB 4836 (?).

Tetragonopterus ortonii Gill, 1870:92. Type locality: the Marañon or upper Amazon, and Napo Rivers. [not clearly specified; information from title of work]. Holotype: ?ANSP 16834 [skeleton].

Remarks: Gill (1870) described ten species of freshwater fishes based on specimens collected by James Orton (1830–1877) during his 1867 expedition which began in Guayaquil, on the Pacific Coast of Ecuador, and ended in Pebas, Peru. Subsequent authors generally considered Gill's species to be based on Orton specimens from the upper Amazon. Vari *et al.* (2005:227–228), however, provided convincing evidence that Gill (1870) based his *Cetopsis ventralis* on a specimen from the Pacific versant of the Andes. Therefore, Orton returned with

specimens from Pacific coastal drainages as well as the upper Amazon. Eight of Gill's holotypes are preserved at USNM; the types of *Centromochlus steindachneri* and *Tetragonopterus ortonii* are generally regarded as missing. Recently found at ANSP is a skeleton (ANSP 16834) accompanied by a crude sketch of a (seemingly) entire specimen and original label bearing E.D. Cope's handwriting "Tetragonopterus Ortonii, Pebas (Coast)". The reference to "coast" is consistent with Orton's 1867 expedition *vs.* his 1873 and 1876 expeditions which focused on the Amazon interior. A contemporary of Gill, Cope (1870, 1872) also published on fishes from the Amazon Basin (including "Pebas, Equador") that were collected by John Hauxwell (among others). Cope was certainly aware of Gill's *Tetragonopterus ortonii* as he mentioned the species and author by name (Cope 1870:566) in reference to "Other Characinidae contained in the collection..." However, the "collection" in this case seems to refer to Hauxwell's specimens (not Orton's). And Gill (1870) evidently based his brief description not on a skeleton, but on an entire specimen with "D. 11. A. 34." The dorsal-fin skeleton of ANSP 16834 is detached from the axial skeleton and has a count of ii,8 if the last two elements are counted as one (otherwise ii,9); the anal fin has a count of iv,33 (two anteriormost simple rays small and closely adhered to third, which would make them inconspicuous in entire specimen). Features of the skeleton consistent with Gill's description are its concave profile in parietal region, transversely convex interorbital region, and relatively tall dorsal fin. While ANSP 16834 may not be the true holotype of *Tetragonopterus ortonii*, it certainly represents Cope's interpretation of Gill's species [M. Sabaj, pers. comm].

Tetragonopterus rhomboidalis Posada, 1909:302. Type locality: Medellín, Colombia. No types known.

Remarks: Listed as Species *inquirenda* (Characidae) in Lima *et al.*, 2003:159.

Tetragonopterus rufipes Valenciennes, 1834:no p., Pl. 11 (fig. 1). Type locality: not precisely located. [mentioned as originated from the market in Buenos Aires, Argentina by Cuvier, Valenciennes, 1850:136]. Syntypes [incorrect]: MNHN A-9808 (3, poor condition).

Tetragonopterus santaremensis Ulrey, 1894:611. Type locality: Santarem. [Santarém, Pará, Brazil]. Syntypes: (10) SU 2167 (2).

Tetragonopterus sardina Posada, 1909:302. Type locality: Medellín, Colombia. No types known.

Remarks: Species *inquirenda* (Characidae) in Lima *et al.*, 2003:159.

Tetragonopterus schomburgkii Valenciennes, in Cuvier, Valenciennes, 1850:137. Type locality: Essequibo. [Essequibo river, Guyana]. Holotype: MNHN A-9812 (poor condition).

Tetragonopterus signatus Burmeister, 1861:535. Type locality: Im Río Paraná, bei Rozario. [Río Parana, close to Rosario]. Holotype: Whereabouts unknown.

Remarks: Based on the original description, *Tetragonopterus signatus* Burmeister, 1861 probably represents a synonym of *Astyanax pellegrini* Eigenmann or *Ctenobrycon alleni* (Eigenmann). Thus, we decided to include it as species *inquirenda* in Characidae. See Koerber, Litz (2008) for transcription and translation of original description.

CHILODONTIDAE Eigenmann, 1903**RP Vari**

Chilodinae Eigenmann, 1903:144. Type genus: *Chilodus* Müller, Troschel, 1844. Additional comments: The Chilodontinae Eigenmann, 1910 is in homonymy with two other family-group names: Chilodontidae Macalister, 1876 (Ciliophora) and Chilodontinae Wenz, 1938 (Mollusca, Gastropoda). Herbert, Bouchet (2011) proposed the removal of the homonymy between these names in placing the unused name Chilodontidae Macalister, 1876 on the Official Index; placing the name Chilodontinae Eigenmann, 1910, as emended by Fowler (1950), on the Official List; and the emending of Chilodontinae Wenz to Chilodontainae Wenz, 1938 to help preserve the spelling of Chilodontinae Eigenmann 1910. However, the proposal is controversial. Geiger (2011) argues that Fowler's (1950) emendation of Chilod- to Chilodont- is unjustified. The author advocates the reversion of the fish family name to the original Chilodidae Eigenmann, 1910, retaining the molluscan Chilodontidae Wenz, 1938, and placing the unused protistan Chilodontidae Macalister, 1876 on the Official Index.

CAENOTROPUS Günther, 1864

Microdus Kner, 1858a:77. Type species: *Microdus labyrinthicus* Kner, 1858. Type by monotypy. Gender: Masculine. Additional comments: Preoccupied by *Microdus* Nees, 1812, in Hymenoptera and *Microdus* Emmons, 1857, in fossil fishes.

Caenotropus Günther, 1864:297. Type species: *Microdus labyrinthicus* Kner, 1858. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Microdus* Kner, 1859, preoccupied by *Microdus* Nees, 1812 in Hymenoptera and *Microdus* Emmons, 1857 in fishes. Type species subsequently designated by Eigenmann, 1910:424 (type species designation ruled by ICZN Opinion 1150, 1980).

Tylobronchus Eigenmann, 1912a:253, 271. Type species: *Tylobronchus maculosus* Eigenmann, 1912. Type by monotypy. Gender: Masculine.

Caenotropus labyrinthicus (Kner, 1858)

Microdus labyrinthicus Kner, 1858a:77. Type locality: Rio Branco und Barra do Rio negro. [Lectotype locality: Barra do Rio Negro, Brazil. Type locality mentioned only in more detailed description of Kner (1859)]. Lectotype: NMW 69289.1 (139 mm SL). [Designated by Vari *et al.* (1995:24)].

Chilodus labyrinthicus rupununi Fowler, 1914a:230, fig. 2. Type locality: Rupununi River, British Guiana. [Guyana]. Holotype: ANSP 39316 [not 39306].

Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 321, 322, 323, 324, 325 (Vari *et al.*, 1995; Sidlauskas, Vari, 2008; Torrente-Vilara *et al.*, 2013).

Caenotropus maculosus (Eigenmann, 1912)

Tylobronchus maculosus Eigenmann, 1912a:272, Pl. 35 (fig. 3). Type locality: Creek below Potaro Landing. [Guyana]. Holotype: FMNH 53449.

Distribution: 310, 311 (Vari *et al.*, 1995; Sidlauskas, Vari, 2008).

Caenotropus mestomorgmatos Vari, Castro, Raredon, 1995

Caenotropus mestomorgmatos Vari, Castro, Raredon, 1995:14, figs. 9–10. Type locality: Venezuela, Estado Amazonas, Río Iguapo, tributary of Río Orinoco, Río Orinoco basin, 3°09'N, 65°28'W. Holotype: MBUCV-V-21750.

Distribution: 308, 314, 316 (Vari *et al.*, 1995; Sidlauskas, Vari, 2008; Melo *et al.*, 2014).

Caenotropus schizodon Scharcansky, Lucena, 2007

Caenotropus schizodon Scharcansky, Lucena, 2007:60, figs. 1–3. Type locality: Brazil, Mato Grosso, Rio Arinos, Porto dos Gaúchos, 11°31'51"S, 57°25'08"W. Holotype: MCP 29971.

Distribution: 316, 322, 324 (Scharcansky, Lucena, 2007; Melo *et al.*, 2014).

Remarks: Possible morphotype of *Caenotropus labyrinthicus* (Melo *et al.*, 2014).

CHILODUS Müller, Troschel, 1844

Chilodus Müller, Troschel, 1844:85. Type species: *Chilodus punctatus* Müller, Troschel, 1844. Type by monotypy. Gender: Masculine. Additional comments: Name on Official List (ICZN Opinion 1150, 1980).

Chilodus fritillus Vari, Ortega, 1997

Chilodus fritillus Vari, Ortega, 1997:72, fig. 1. Type locality: Peru. Madre de Dios, Provincia Tambopata, Río Palma Real, oxbow lagoon, 12°45'S, 69°03'W, elevation 192 meters. Holotype: MUSM 7223.

Distribution: 318 (Vari, Ortega, 1997).

Chilodus gracilis Isbrücker, Nijssen, 1988

Chilodus gracilis Isbrücker, Nijssen, 1988:54, fig. 5. Type locality: Brazil, Est. Amazonas, right bank tributary to Rio Uaupés at Trovão (about 20 kilometers upstream of mouth of Rio Uaupés). Holotype: IRSNB 760.

Distribution: 311, 314, 316, 321 (Isbrücker, Nijssen, 1988; Melo *et al.*, 2014).

Chilodus punctatus Müller, Troschel, 1844

Chilodus punctatus Müller, Troschel, 1844:85. Type locality: lacu Amucu Guianae. [Lake Amucu, upper Essequibo river system, Guyana]. Lectotype: ZMB 23599. [Designated by Isbrücker, Nijssen (1988:48)].

Citharinus chilodus Valenciennes, in Cuvier, Valenciennes, 1850:103. Type locality: lacu Amucu Guianae. [Guyana]. Lectotype: ZMB 23599. Not treated by Vari *et al.* (1995), Isbrücker, Nijssen (1988) or Vari, Raredon (2003). Treated in Fricke *et al.*, 2022 as an apparently unneeded new name for and objective synonym of *Chilodus punctatus* Müller, Henle, 1844.

Distribution: 307, 310, 311, 315, 316, 318, 323, 324 (Vari *et al.*, 1995; Sidlauskas, Vari, 2008; Torrente-Vilara *et al.*, 2013; Melo *et al.*, 2014).

Chilodus zunevei Puyo, 1946

Chilodus zunevei Puyo, 1946:183 [1], fig. 1. Type locality: Région des plateaux des Guyanes située dans le territoire de l'Inini à environ trois cent cinquante kilomètres à vol d'oiseau de l'île de Cayene, sur les contreforte des Monts Tumuc-Humac; ils furent recueillies dans une crique inconnue que se déverse dans l'Itany. [French Guiana]. Syntypes: (2, apparently never deposited in a

museum, whereabouts unknown).

Distribution: 311 (Isbrücker, Nijssen, 1988; Melo *et al.*, 2014).

CITHARINIDAE Günther, 1864

G Boden, T Moelants

Cyprinosalmi Latreille, 1825:120. Type genus: *Citharinus* Cuvier, 1816. Additional comments: no stem of the type genus, not available.

Citharinina Günther, 1864:279. Type genus: *Citharinus* Cuvier, 1816.

CITHARIDIUM Boulenger, 1902

Citharidium Boulenger, 1902d:144. Type species: *Citharidium ansorgii* Boulenger, 1902. Type by monotypy. Gender: Neuter.

***Citharidium ansorgii* Boulenger, 1902**

Citharidium ansorgii Boulenger, 1902d:144, Pl. 3. Type locality: Lake Oguta, Southern Nigeria. [Nigeria]. Holotype: BMNH 1902.1.23.1.

Distribution: 505, 506, 507, 508 (Olaosebikan, Raji, 1998; Gosse, Paugy, 2003).

Remarks: Also reported from Lake Chad basin by Vivien (1991), but this is unconfirmed.

CITHARINOPS Daget, 1962

Citharinops Daget, 1962a:81, 101. Type species: *Citharinus distichodoides* Pellegrin, 1919. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Citharinus*.

***Citharinops distichodoides* (Pellegrin, 1919)**

Citharinus distichodoides Pellegrin, 1919:208. Type locality: Gribingui. [Central African Republic]. Syntypes: BMNH 1919.8.15.16 (1); MNHN 1919-0201 to 0207 (7).

Citharinus thomasi Pellegrin, 1924b:461. Type locality: Koriomé (région de Timbouctou). [Mali]. Holotype: MNHN 1924-0176.

Distribution: 505, 506, 507, 508, 516, 520 (Gosse, Paugy, 2003).

CITHARINUS Cuvier, 1816

Citharinus Cuvier, 1816:168. Type species: *Serrasalmus citharus* Geoffroy St. Hilaire, 1809. Type by monotypy. Gender: Masculine.

Citharinoïdes Daget, Iltis, 1965:83 (footnote). Type species: *Citharinus latus* Müller, Troschel, 1844. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Citharinus* by Daget (1962a); it included 2 species, but no type was established (Art. 13.3).

***Citharinus citharus* (Geoffroy St Hilaire, 1809)**

- Serrasalmus citharus* Geoffroy St Hilaire, 1809: 40, Pl. 5 (fig. 2). Type locality: Nil. [Nile, Egypt]. Syntypes: MNHN 0000-4617 (1); MNHN A-9723 (3); MNHN A-8605 (1, dry); MNHN A-8606 (1, dry); MNHN B-3187 (1). [In some references (Bertin, 1948) MNHN A-9882 (2) and MNHN A-9725 (4) are indicated as syntypes, but this seems uncertain because they do not correspond with the data in the original description (locality, year of collection)].
- Citharinus geoffroyi* Cuvier, 1829:313. Type locality: Not given. No types known. Name available from a footnote as “Le Serrasalme citharine ou Astre de la nuit des Arabes, Geoffr., Poiss. D’Eg., pL. v, f. 2 et 3 (*Citharinus geoffroyi*, Nob.)”.
- Distichodus marnoi* Steindachner, 1881c:200 [22]. Type locality: Bahr el Seraf und Bahr el Gebel. [Bahr-el-Seraf and Bahr-el-Gebel rivers, Nile basin, South Sudan]. Syntypes: NMW 59544 (1), 76438 (2).
- Citharinus citharus intermedius* Worthington, 1932:123. Type locality: Lake Rudolf. [(Lake Turkana), Kenya]. Syntypes: BMNH 1932.6.13.36–40 (5).
Distribution: 505, 506, 507, 508, 509, 516, 517, 520, 522, 523, 530 (David, Poll, 1937; Bailey, 1994; Gosse, Paugy, 2003; Seegers *et al.*, 2003).
Remarks: A report of *Citharinus latus* from the Kingani River in Tanzania (Pfeffer, 1894; Daget, 1962a) probably refers to *Citharinus citharus intermedius* (Daget, 1984). Therefore, the distribution of *Citharinus citharus* possibly also includes the Kingani River in Tanzania (Daget, 1984).
- Citharinus congicus*** Boulenger, 1897
Citharinus congicus Boulenger, 1897b:424. Type locality: Stanley Falls. [(Wagenia Falls). Democratic Republic of the Congo]. Holotype: BMNH 1897.9.30.19.
Distribution: 534, 535, 536, 537, 539, 540, 545, 546, 548, 549, 550, 564 (Boulenger, 1901; Boulenger, 1916; Nichols, Griscom, 1917; Pellegrin, 1928b; David, Poll, 1937; Poll, 1939; Gosse, 1963; Daget, Stauch, 1963; Gosse, 1968; Poll, 1976; Roberts, Stewart, 1976; Banister, Bailey, 1979; Daget, 1984).
- Citharinus eburneensis*** Daget, 1962
Citharinus eburneensis Daget, 1962b:485. Type locality: Agneby, Côte d’Ivoire. [Ivory Coast]. Holotype: MNHN 1961-1122.
Distribution: 514 (Gosse, Paugy, 2003).
- Citharinus gibbosus*** Boulenger, 1899
Citharinus gibbosus Boulenger, 1899b:94, Pl. 39. Type locality: Stanley-Pool (région des chutes); Kutu (lac Léopold II); Monsembé, Haut-Congo; Haut-Congo; Banana. [Democratic Republic of the Congo]. Syntypes: BMNH 1898.7.9.23–24 (2); BMNH 1898.11.17.24 (1); BMNH 1899.6.27.42 (1); BMNH 1899.8.22.8 (1); BMNH 1899.9.26.128 (1); RMCA 859 (1); RMCA 860 (1).
Distribution: 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 545, 546, 547, 548, 549, 550 (Boulenger, 1899b; Boulenger, 1909a; Nichols, Griscom, 1917; Pellegrin, 1928b; David, Poll, 1937; Poll, 1939; Gosse, 1963; Daget, Stauch, 1963; Matthes, 1964b; Gosse, 1968; Poll, 1976; Roberts, Stewart, 1976; Banister, Bailey, 1979; De Vos *et al.*, 2001; Mbimbi Mayi Munene, Stiassny, 2011; Monsembula Iyaba, Stiassny, 2013; Kisekelwa *et al.*, 2020).
- Citharinus latus*** Müller, Troschel, 1844
Citharinus latus Müller, Troschel, 1844:85. Type locality: Nilo [Nile]. Holotype: ZMB 3534.

Distribution: 505, 507, 508, 509, 511, 516, 517, 518, 520, 522, 523 (David, Poll, 1937; Bailey, 1994; Gosse, Paugy, 2003).

Remarks: Originally described as “*Citharinus latus* Ehrbg.” by Müller, Troschel (1844) based on a collection of fishes made by Christian Gottfried Ehrenberg and Wilhelm Hemprich during their exploration of the Nile between 1820 and 1825. Unfortunately, Hemprich, in charge of the vertebrates, died during this expedition, and Ehrenberg apparently named the different species in a collection list, but without giving a proper description (Zarske, 2011b).

***Citharinus macrolepis* Boulenger, 1899**

Citharinus macrolepis Boulenger, 1899b:93, Pl. 38. Type locality: Boma; Manyanga; Upoto; Chiloango; Boma (rivière des Crocodiles); Kutu; Ibali (lac Léopold II). [Democratic Republic of the Congo]. Syntypes: BMNH 1898.11.17.23 (1); BMNH 1899.9.26.127 (1); RMCA 29 (1); RMCA 80 (1); RMCA 120 (1); RMCA 856 (1); RMCA 857 (1); RMCA 858 (1). [Specimens from the type localities Upoto and Chiloango were not found in the collections of BMNH and RMCA].

Distribution: 534, 535, 537, 538, 539, 540, 545, 546, 547, 548, 549, 550 (Boulenger, 1901; Boulenger, 1909c; David, Poll, 1937; Poll, 1939; Gosse, 1963; Daget, Stauch, 1963; Matthes, 1964b; Gosse, 1968; Poll, 1976; Roberts, Stewart, 1976; Banister, Bailey, 1979; Monsembula Iyaba, Stiassny, 2013).

Species inquirenda (Citharinus)

Salmo cyprinoïdes Cuvier, 1829:313. Type locality: Not given. No types known.

Remarks: Name available from a footnote as “*Salmo cyprinoïdes*, Gronov., Mus., p. 378”. Noted as part of the genus *Citharinus*.

CRENUCHIDAE Günther, 1864

PA Backup

Crenuchina Günther, 1864:280. Type genus: *Crenuchus* Günther, 1863.

Characidiinae Fowler, 1932:349. Type genus: *Characidium* Reinhardt, 1867. Additional comments: Name not defined in Fowler (1932:349), but used as valid in prevailling recent practice.

Elachocharacinae Géry, 1971:163. Type genus: *Elachocharax* Myers, 1927. Additional comments: Name appeared first in a table on page 152, but the new name is formally defined on page 163.

Geisleriinae Géry, 1971:163. Type genus: *Geisleria* Géry, 1971. Additional comments: Name appeared first in the title on page 153, but the new name is formally defined on page 163.

AMMOCRYPTOCHARAX Weitzman, Kanazawa, 1976

***Ammocryptocharax* Weitzman, Kanazawa, 1976:326.** Type species: *Ammocryptocharax elegans* Weitzman, Kanazawa, 1976. Type by original designation. Gender: Masculine.

Ammocryptocharax elegans Weitzman, Kanazawa, 1976

Ammocryptocharax elegans Weitzman, Kanazawa, 1976:331, figs. 1–4. Type locality: Colombia, State of Vichada, Vichada river basin, Caño Muco about 15 km west of Puerto Gaitán toward Puerto Carreno. Holotype: USNM 210692.

Distribution: 307, 308, 314, 315, 316 (Buckup, 1993).

Ammocryptocharax lateralis (Eigenmann, 1909)

Characidium laterale Eigenmann, 1909a:36. Type locality: Amatuk. [Guyana]. Holotype: FMNH 72627.

Distribution: 310 (Buckup, 1993).

Ammocryptocharax minutus Buckup, 1993

Ammocryptocharax minutus Buckup, 1993:109, fig. 4. Type locality: Rio Urubaxi, beach near confluence with Rio Negro, 64° 45'W, 0° 35'S, Estado do Amazonas, Brazil. Holotype: MZUSP 43671.

Distribution: 307, 308, 314, 316* (Buckup, 1993; Buckup, pers. obs.).

Ammocryptocharax vintonae (Eigenmann, 1909)

Characidium vintoni Eigenmann, 1909a:36. Type locality: Shrimp Creek. [Guyana]. Holotype: FMNH 52756.

Distribution: 310, 308 (Buckup, 1993).

CHARACIDIUM Reinhardt, 1867

Characidium Reinhardt, 1867:55. Type species: *Characidium fasciatum* Reinhardt, 1867. Type by monotypy. Gender: Neuter.

Chorimycterus Cope, 1894b:67. Type species: *Chorimycterus tenuis* Cope, 1894. Type by monotypy. Gender: Masculine.

Nanognathus Boulenger, 1895d:2. Type species: *Nanognathus borellii* Boulenger, 1895. Type by monotypy. Gender: Masculine.

Poecilomatops Fowler, 1906:323. Type species: *Characidium etheostoma* Cope, 1872. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Characidium* Reinhardt, 1867.

Jobertina Pellegrin, 1909d:151. Type species: *Characidium (Jobertina) interruptum* Pellegrin, 1909. Type by monotypy. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Characidium* Reinhardt, 1867.

Microcharax Eigenmann, 1909a:35. Type species: *Nannostomus lateralis* Boulenger, 1895. Type by original designation. Gender: Masculine.

Geryichthys Zarske, 1997:158. Type species: *Geryichthys sterbai* Zarske, 1997. Type by original designation. Gender: Masculine. Additional comments: Synonymy with *Characidium* proposed by Melo *et al.*, 2016:6.

Characidium alipioi Travassos, 1955

Characidium alipioi Travassos, 1955a:613, figs. 1–12. Type locality: Ilha dos Pombos - Rio Paraíba - Estado do Rio. [Brazil]. Holotype: MNRJ 5550.

Distribution: 329, 352 (Leitão, Buckup, 2014).

Characidium amaila Lujan, Agudelo-Zamora, Taphorn, Booth, López-Fernández, 2013

- Characidium amaila* Lujan, Agudelo-Zamora, Taphorn, Booth, López-Fernández, 2013:455, figs. 1A, 2, 4, 5. Type locality: Guyana, Region 8, Kuribrong River drainage, a tributary of the Potaro/Essequibo River system, confluence of the Amaila and Kuribrong rivers immediately above Amaila Falls (Rapids 1), 5° 22'33"N, 59° 33'1"W. Holotype: CSBD 1655.
Distribution: 310 (Lujan *et al.*, 2013).
- Characidium bahiense*** Almeida, 1971
Characidium (Jobertina) bahiensis Almeida, 1971:112, fig. 1. Type locality: Arembepe, Bahia. [Brazil]. Holotype: MZUSP 8940.
Distribution: 328 (Almeida, 1971).
- Characidium barbosai*** Flausino Junior, Lima, Machado, Melo, 2020
Characidium barbosai Flausino Junior, Lima, Machado, Melo, 2020:351, figs. 1, 3A. Type locality: Brazil, Mato Grosso, Vila Bela da Santíssima Trindade, córrego Longa Vida, tributary of rio Guaporé, Serra da Borda, 14° 45'35"S, 59° 42'14"W. Holotype: ZUEC 17139.
Distribution: 319 (Flausino Junior *et al.*, 2020).
- Characidium bimaculatum*** Fowler, 1941
Characidium bimaculatum Fowler, 1941b:179, fig. 90. Type locality: Forteleza, Ceará. [Original reference to type locality is a misspelling for "Fortaleza", Brazil]. Holotype: ANSP 69523.
Distribution: 326, 327*, 328* (Buckup, pers. obs.).
- Characidium boavistae*** Steindachner, 1915
Characidium fasciatum var. *boavistae* Steindachner, 1915c:30 [16], Pl. 3 (fig. 4). Type locality: dem Rio Branco, und ... einem sekundären Nebenflusse desselben, dem rio Miang. [Brazil]. Syntypes: (several) NMW 62427 (24), 62431–32 (19, 6), 62426 (2).
Characidium voladorita Schultz, 1944:280, fig. 32. Type locality: 4 km. Above Motatán in the Motatán, Maracaibo Basin. [Venezuela]. Holotype: USNM 121407.
Distribution: 303*, 307*, 308*, 315 (Buckup, pers. obs.).
- Characidium boehlkei*** Géry, 1972
Characidium boehlkei Géry, 1972b:79, Pl. 7 (fig. 1). Type locality: rio Cururay, bassin du rio Napo. [Ecuador]. Holotype: ZMH H1624.
Distribution: 313, 316* (Buckup, pers. obs.).
- Characidium bolivianum*** Pearson, 1924
Characidium bolivianum Pearson, 1924:31, Pl. 9 (fig. 3). Type locality: Popoy river, Upper Beni. [Bolivia]. Syntypes: CAS 60253 (orig. 13, now 9), UMMZ 16688 (4), USNM 117523 [orig. IU 17301] (1). Additional material: CAS 60255 (13), CAS 60256 (2).
Distribution: 318 (Pearson, 1924).
- Characidium borellii*** (Boulenger, 1895)
Nanognathus borellii Boulenger, 1895d:3. Type locality: S. Pablo, prov. Tucuman. [Argentina]. Holotype: MZUT P 2563.
Distribution: 339 (Boulenger, 1895d).
- Characidium brevirostre*** Pellegrin, 1909
Characidium brevirostre Pellegrin, 1909c:345 [4]. Type locality: Nord dy Brésil (Ancien Contesté franco-brésilien) [Brazil]. Holotype: MNHN 1898-0051.

Distribution: 311, 323 (Pellegrin, 1909c).

Remarks: Geographic distribution is uncertain.

Characidium cacah Zanata, Ribeiro, Araújo-Porto, Pessali, Oliveira-Silva, 2020

Characidium cacah Zanata, Ribeiro, Araújo-Porto, Pessali, Oliveira-Silva, 2020:506, figs. 1–2. Type locality: Brazil, Minas Gerais, Jaboticatubas, rio Cipó, Serra do Cipó National Park, rio das Velhas sub-basin, rio São Francisco basin, 19°20'36.2"S, 43°36'30.4"W. Holotype: MZUSP 125765.

Distribution: 327 (Zanata *et al.*, 2020).

Characidium caucanum Eigenmann, 1912

Characidium caucanum Eigenmann, 1912b:25. Type locality: Cali. [Colombia]. Holotype: FMNH 56057.

Distribution: 302 (Eigenmann, 1912b).

Characidium chancoense Agudelo-Zamora, Ortega-Lara, Taphorn, 2020

Characidium chancoense Agudelo-Zamora, Ortega-Lara, Taphorn, 2020:250, figs. 1, 2f, 4, 5c, 6c, 7c. Type locality: Colombia, Valle del Cauca, Ansermanuevo, upper Río Cauca drainage, Río Chanco, 4°46'30.14"N, 76°0'8.62"W. Holotype: IMCN 4528.

Distribution: 302 (Agudelo-Zamora *et al.*, 2020).

Characidium chicoi da Graça, Ota, Domingues, 2019

Characidium chicoi da Graça, Ota, Domingues, 2019:1481, figs. 1,2. Type locality: Brazil, Mato Grosso, Itiquira Municipality, Rio Comprido, tributary of the Rio Correntes, Rio Paraguay Basin, 17°32'4.4"S, 54°25'38.9"W. Holotype: MCP 54162.

Distribution: 343 (da Graça *et al.*, 2019).

Characidium chupa Schultz, 1944

Characidium chupa chupa Schultz, 1944:283, fig. 33. Type locality: Río Chama at Estanques. Estado de Merida. [Venezuela]. Holotype: USNM 121417.

Characidium chupa torbesensis Schultz, 1944:286, fig. 34. Type locality: Río Torbes, 1 km. above Táriba, Orinoco drainage. [Venezuela]. Holotype: USNM 121415.

Distribution: 303, 307*, 308* (Buckup, pers. obs.).

Characidium clistenesi Melo, Espíndola, 2016

Characidium clistenesi Melo, Espíndola, 2016:553, figs. 1–3. Type locality: Rio Capivara, tributary of rio Paraguaçu, Chapada Diamantina, Lençóis, Bahia, Brazil, 12°27'27"S, 41°22'35.7"W. Holotype: MZUSP 120530.

Distribution: 328 (Melo, Espíndola, 2016).

Characidium crandellii Steindachner, 1915

Characidium crandellii Steindachner, 1915c:32 [18]. Type locality: Miangflusse, einem Zuflusse des Cotingo, der, mit dem Tacutú verignigt, oberhalb Boa Vista in den Rio branco mündet. [Brazil]. Syntypes: NMW 62673 (5), 69260 (2).

Distribution: 308, 310, 314*, 315 (Armbruster *et al.*, 2021; Buckup, pers. obs.).

Remarks: Species redescribed by Armbruster *et al.* (2021).

Characidium cricareense Malanski, Sarmento-Soares, Silva-Malanski, Lopes, Ingenito, Buckup, 2019

Characidium cricareense Malanski, Sarmento-Soares, Silva-Malanski, Lopes, Ingenito, Buckup, 2019:4, fig. 1. Type locality: Brazil, Espírito Santo, São Mateus municipality, São Mateus basin, rio Cricaré at Cachoeira do Inferno rapids,

- 18°42'24.5"S, 40°16'7.2"W, 18 m above sea level. Holotype: MNRJ 51282.
 Distribution: 328 (Malanski *et al.*, 2019).
- Characidium declivirostre*** Steindachner, 1915
Characidium declivirostre Steindachner, 1915c:31 [17]. Type locality: Rio Coquenau, einem Zuflusse des Rio Caroni in Venezuela. [Brazil]. Syntypes: NMW 62442 (4).
 Distribution: 308, 314*, 315* (Armbruster *et al.*, 2021; Buckup, pers. obs.).
 Remarks: Species redescribed by Armbruster *et al.*, (2021).
- Characidium deludens*** Zanata, Camelier, 2015
Characidium deludens Zanata, Camelier, 2015:492, figs. 2b, 5, 6. Type locality: Bahia, Piatã, rio Cochó, tributary of the upper rio Paraguaçu, 13°00'37"S, 41°53'14"W, 1,231 m above sea level. [Brazil]. Holotype: MZUSP 115009.
 Distribution: 328 (Zanata, Camelier, 2015).
- Characidium dule*** Agudelo-Zamora, Tavera, Murillo, Ortega-Lara, 2020
Characidium dule Agudelo-Zamora, Tavera, Murillo, Ortega-Lara, 2020:8, figs. 6–7, 8c–d, 9. Type locality: Colombia, Chocó, Unguia, río Arquía, at the village of Arquía, 08°00'07.1"N, 77°06'56.2"W. Holotype: IMCN 8941.
 Distribution: 301 (Agudelo-Zamora *et al.*, 2020).
- Characidium duplicatum*** Armbruster, Lujan, Bloom, 2021
Characidium duplicatum Armbruster, Lujan, Bloom, 2021:113, fig. 10. Type locality: Guyana, Region 8 (Potaro-Siparuni), Potaro-Essequibo River basin, Kuribrong River, in rapids at Grass Shoals, 05.40791, -059.53179. Holotype: CSBD F-3614.
 Distribution: 310 (Armbruster *et al.*, 2021).
- Characidium etheostoma*** Cope, 1872
Characidium etheostoma Cope, 1872b:259, Pls. 8 (fig. 2), 13 (fig. 3). Type locality: Ambyiacu river [drainage], Eastern Ecuador. [Río Ampyiacu, Peru]. Lectotype: ANSP 8152. [Designated by Fowler (1906:324, fig. 17). Treated as holotype by Böhlke (1984:46)].
 Distribution: 316 (Cope, 1872b).
- Characidium etzeli*** Zarske, Géry, 2001
Characidium etzeli Zarske, Géry, 2001c:237, figs. 6–8. Type locality: 4 km von Bella Vista (etwa 50 km nordöstlich Encarnación in Richtung Rio Parana). [Correct spelling for “Encarnación” is Encarnación; Paraguay]. Holotype: MTD F 22650.
 Distribution: 345 (Zarske, Géry, 2001c).
- Characidium fasciatum*** Reinhardt, 1867
Characidium fasciatum Reinhardt, 1867:56, Pl. 2 (figs. 1–2). Type locality: er almindelig i de fleste af de Bække og Aaer, der falde i Rio das Velhas; ogsaa i Smaasoerne forekomme den, og jeg har navnlig erholdt flere Exemplarer Tra Soen Lagoa Santa ved den lille By af samme Navn. [...] Bæk i Naerheden af den faa Miil fra Lagoa Santa liggende Landsby Sumidouro. [Buckup (1992) restricted the type locality to “Soumidouro Bakken” [= Córrego do Sumidouro], near Lagoa Santa, Município de Lagoa Santa, MG, Brazil. It is likely that the Sumidouro brook is located near the village of Sumidouro, where Reinhardt collected specimens in the first days of October (Reinhardt, 1867). According to Reinhardt, the village of Sumidouro is located a few Danish miles (“faa Miil”) from Lagoa Santa]. Lectotype: ZMUC P241103. [Designated by Buckup (1992)].

Distribution: 327, 344 (Buckup, 1992).

Remarks: Species redescribed by Buckup (1992).

Characidium geryi (Zarske, 1997)

Microcharacidium geryi Zarske, 1997:163, figs. 5–7. Type locality: Peru, Departamento Loreto, Pucallpa, Quebrada Manatai bei der Hazienda der Familie Ramirez na der Strasse Campoverde - Nueva Requena (etwa 08°35'S, 75°50'W). Holotype: MTD F 17355.

Distribution: 316, 317 (Zarske, 1997).

Remarks: Transferred to the genus *Characidium* by Melo *et al.* (2016).

Characidium gomesi Travassos, 1956

Characidium gomesi Travassos, 1956:3, figs. 1–4. Type locality: Córrego da Lazica - Ouro Fino - Minas Gerais - (Bacia de Mogi Guaçu). [Brazil]. Holotype: MNRJ 8584.

Distribution: 244 (Travassos, 1956).

Characidium grajahuensis Travassos, 1944

Characidium grajahuensis Travassos, 1944:2, Pls. 1–6. Type locality: Riacho que abastece a caixa de água do Grajaú, Rio de Janeiro, Distrito Federal, Brasil. [Brazil]. Holotype: MNRJ 3855.

Distribution: 352 (Travassos, 1944).

Characidium hasemani Steindachner, 1915

Characidium hasemani Steindachner, 1915a:201. Type locality: Rio Surumú bei Serra do Mello und aus dem Rio Rupununi. [Brazil and Guyana]. Syntypes: (several) NMW 69253–54 (3, 2).

Characidium surumuense Steindachner, 1915a:202. Type locality: Rio Surumu, einem Nebenflusse des Rio Branco bei Serra do Mello. [Brazil]. Syntypes: (3) NMW.

Distribution: 308*, 315, 320*, 322* (Buckup, pers. obs.).

Remarks: Buckup, 1993:102 formally placed *Characidium surumuense* Steindachner, 1915 as synonym of *Characidium hasemani* Steindachner, 1915 which constitutes a first reviser action.

Characidium heinianum Zarske, Géry, 2001

Characidium heinianum Zarske, Géry, 2001c:231, figs. 1–3. Type locality: Bolivien, Departamento Beni, Rio Ipurupuru, Nebenfluss des Rio Mamoré, unweit de Kreuzung des Flusses na der Strasse nach San Ramon, etwa 73 km nördlich Trinidad (14°12'538"S, 64°56'268"W). [Bolivia. Coordinates for type locality corrected by Neumann (2011:243) to 14°12.538'S, 64°56.268'W]. Holotype: MTD F 24825.

Distribution: 318 (Zarske, Géry, 2001c).

Characidium heirmostigmata Da Graça, Pavanelli, 2008

Characidium heirmostigmata Da Graça, Pavanelli, 2008:53, figs. 1–2. Type locality: Brazil, Paraná, Município de Prudentópolis, upper rio Paraná basin, rio Barra Grande, tributary to left margin of rio Ivaí, approx. 24°40'S, 51°15'W. Holotype: MZUSP 97738.

Distribution: 344 (Graça, Pavanelli, 2008).

Characidium helmeri Zanata, Sarmento-Soares, Martins-Pinheiro, 2015

Characidium helmeri Zanata, Sarmento-Soares, Martins-Pinheiro, 2015:372, figs. 1–4. Type locality: Bahia, Prado, rio Ribeirão, on road between Cumuruxatiba

and Corumbau, tributary of rio Cahy, 17°00'45"S, 39°12'07"W, 17 m above sea level. [Brazil]. Holotype: MNRJ 42610.

Distribution: 328 (Zanata *et al.*, 2015).

Characidium iaquira Zanata, Ohara, Oyakawa, Dagosta, 2020

Characidium iaquira Zanata, Ohara, Oyakawa, Dagosta, 2020:2, figs. 1–4a, 4c, 5. Type locality: Brazil, Mato Grosso, Tapurah, stream on the road between Inhangá and Tapurah, rio Arinos drainage, rio Juruena sub basin, rio Tapajós basin, 12°23'13"S, 56°41'54"W. Holotype: MZUSP 125780.

Distribution: 320 (Zanata *et al.*, 2020).

Characidium interruptum Pellegrin, 1909

Characidium (Jobertina) interruptum Pellegrin, 1909d:151. Type locality: Serra d'Estrello (Brésil). [Regan (1913a) incorrectly assigned the type locality to the State of Rio Grande do Sul, but the locality is actually located in the State of Rio de Janeiro, Brazil (see discussion in Géry, 1960b)]. Holotype: MNHN 1909-0309.

Characidium (Jobertina) dubia Travassos, 1952a:8, Pls. 1–2, 4, 6–9. Type locality: Estrada Velha de Petrópolis - Baixada Fluminense - Estado do Rio de Janeiro. [Brazil]. Holotype: MNRJ 5542.

Distribution: 352 (Pellegrin, 1909d).

Characidium japyhybense Travassos, 1949

Characidium japyhybense Travassos, 1949a:229, figs. 1–4. Type locality: Japyhyba, Município de Angra dos Reis, Est. do Rio de Janeiro. [Brazil]. Holotype: MNRJ 5139.

Distribution: 352 (Travassos, 1949a).

Characidium kalunga Melo, Bouquerel, Masumoto, França, Netto-Ferreira, 2021

Characidium kalunga Melo, Bouquerel, Masumoto, França, Netto-Ferreira, 2021:3, figs. 1–6. Type locality: Rio Almécegas at Cachoeira de Almécegas II, tributary of rio dos Couros, rio Tocantins basin, Alto Paraíso de Goiás, Goiás, Brazil, 14°11'11"S, 47°36'15"W. Holotype: MZUSP 125824.

Distribution: 324 (Melo *et al.*, 2021).

Characidium kamakan Zanata, Camelier, 2015

Characidium kamakan Zanata, Camelier, 2015:488, figs. 1, 2a. Type locality: Bahia, Camacan, rio Panelão on the road between Camacan and Jacareci, rio Pardo basin, 15°25'16"S, 39°31'48"W, 162 m above sea level. Holotype: MZUSP 115000.

Distribution: 328 (Zanata, Camelier, 2015).

Characidium krenak Oliveira-Silva, Santos, Lopes, Zanata, 2022

Characidium krenak Oliveira-Silva, Santos, Lopes, Zanata, 2022:3, figs. 1–4. Type locality: Brazil, Minas Gerais, Caranaíba, rio dos Costas, tributary of rio Piranga sub-basin, upper rio Doce basin, 20°51'37"S, 43°43'11"W. Holotype: MZUSP 125896.

Distribution: 328 (Oliveira-Silva, Santos, Lopes, Zanata, 2022).

Characidium lagsantense Travassos, 1947

Characidium lagsantense Travassos, 1947:23, Pls. 6–9. Type locality: Lagoa Santa, Estado de Minas Gerais, Brasil. [Brazil]. Holotype: MNRJ 4582.

Distribution: 327 (Travassos, 1947).

Characidium lanei Travassos, 1967

Characidium lanei Travassos, 1967:45, fig. 2. Type locality: Fazenda Poço Grande, Juquiá, São Paulo. [Brazil]. Holotype: MNRJ 6185.

Distribution: 330 (Travassos, 1967).

Characidium laterale (Boulenger, 1895)

Nannostomus lateralis Boulenger, 1895d:2. Type locality: Colonia Risso. [Paraguay]. Syntypes: BMNH 1895.1.30.16–19 (4 or 5); MSNG 35133 (1); MZUT 1349 (2), 1044 (many), 1400 (1), 2565 (?).

Distribution: 343 (Boulenger, 1895d).

Characidium lauroi Travassos, 1949

Characidium lauroi Travassos, 1949b:87, figs. 1–10. Type locality: Rio das Pedras, Fazenda Penedo, Agulhas Negras (Rezende), Estado do Rio de Janeiro, Brasil. [Brazil]. Holotype: MNRJ 5529.

Distribution: 329 (Travassos, 1949b).

Characidium litorale Leitão, Buckup, 2014

Characidium litorale Leitão, Buckup, 2014:15, fig. 1. Type locality: Brazil, Rio de Janeiro, mun. Casimiro de Abreu, Córrego Aldeia Velha, tributary of Rio São João, under the Aldeia Velha road bridge, near Reserva Particular do Patrimônio Natural Bom Retiro, 22°28'03.00"S, 42°17'51.00"W. Holotype: MNRJ 38929.

Distribution: 352 (Leitão, Buckup, 2014).

Characidium longum Taphorn, Montaña, Buckup, 2006

Characidium longum Taphorn, Montaña, Buckup, 2006:3, fig. 1. Type locality: Venezuela: Apure, Rio Capanaparo drainage: Caño La Guardia (06.84000°N, 67.32500°W). Holotype: MCNG 53371.

Distribution: 307, 308, 314 (Taphorn *et al.*, 2006).

Characidium marshi Breder, 1925

Characidium marshi Breder, 1925:5, fig. 5. Type locality: Rio Sucubti, Darien, Panama. Holotype: AMNH 8405.

Distribution: 210 (Breder, 1925).

Characidium mirim Netto-Ferreira, Birindelli, Buckup, 2013

Characidium mirim Netto-Ferreira, Birindelli, Buckup, 2013:362, fig. 1. Type locality: Brazil, Mato Grosso, rio das Mortes, at bridge on road between Chapada dos Guimarães and Campo Verde, 15°30'20"S, 55°13'38"W. Holotype: MZUSP 111123.

Distribution: 324 (Netto-Ferreira *et al.*, 2013).

Characidium nambiquara Zanata, Ohara, 2020

Characidium nambiquara Zanata, Ohara, 2020:2, figs. 1–3. Type locality: Brazil, Mato Grosso, Comodoro, igarapé Piolhinho on road BR 174, ca. 12 km from Comodoro on the way to Nova Lacerda, immediately below the reservoir of the Usina Real Norte (small hydroelectric dam), upper rio Guaporé drainage, rio Madeira basin, 13°46'50"S, 59°46'10"W. Holotype: MZUSP 118566.

Distribution: 319 (Zanata, Ohara, 2020).

Characidium nana Mendonça, Netto-Ferreira, 2015

Characidium nana Mendonça, Netto-Ferreira, 2015:188, fig. 1. Type locality: Brazil, Pará, Rio 13 de Maio, approximately 40 km from Castelo dos Sonhos, 8°38'54.65"S, 55°1'45.04"W. Holotype: MPEG 31838.

Distribution: 316, 322 (Mendonça, Netto-Ferreira, 2015).

Characidium nupelia Da Graça, Pavanelli, Buckup, 2008

Characidium nupelia Da Graça, Pavanelli, Buckup, 2008:326, figs. 1–2. Type locality: Brazil, Mato Grosso, Rosário Oeste, Córrego Forquilha, tributary to Rio Manso (downstream from Manso Reservoir), upper Rio Paraguay basin, 14°44'58"S, 56°07'39"W. Holotype: MZUSP 87743.

Distribution: 343 (Graça *et al.*, 2008).

Characidium occidentale Buckup, Reis, 1997

Characidium occidentale Buckup, Reis, 1997:532, fig. 1A. Type locality: arroio Canoín (approximately 28°07'S, 55°13'W) on road between Pirapó and São Nicolau, mn. São Nicolau, Rio Grande do Sul, Brazil. Holotype: MCP 17585.

Distribution: 332 (Buckup, Reis, 1997).

Characidium oiticicai Travassos, 1967

Characidium oiticicai Travassos, 1967:47, fig. 1. Type locality: Paranapiacaba, São Paulo. [Brazil]. Holotype: MNRJ 9480.

Distribution: 344 (Travassos, 1967).

Characidium onca Melo, Brito, Ribeiro, Lima, 2021

Characidium onca Melo, Brito, Ribeiro, Lima, 2021:4, figs. 1–4. Type locality: Brazil, Distrito Federal, Brasília, córrego Taquara at Reserva Ecológica do IBGE, tributary of ribeirão Gama, tributary of Lago Paranoá, tributary of the left bank of rio São Bartolomeu, upper rio Paraná basin, 15°54'55.04"S, 47°54'23.87"W. Holotype: MZUSP 125807.

Distribution: 344 (Melo *et al.*, 2021).

Characidium orientale Buckup, Reis, 1997

Characidium orientale Buckup, Reis, 1997:535, fig. 1B. Type locality: arroio Chasqueiro on road (BR116) between Pelotas and Arroio Grande, mun. Arroio Grande, Rio Grande do Sul, Brazil (approximately 32°09'S, 53°03'W). Holotype: MCP 16847.

Distribution: 334 (Buckup, Reis, 1997).

Characidium papachibe Peixoto, Wosiacki, 2013

Characidium papachibe Peixoto, Wosiacki, 2013:52, fig. 1. Type locality: Brazil, State of Pará, Juruti, unnamed stream left tributary to Rio Aruã, left tributary to Rio Arapiuns, itself a left tributary to Rio Tapajós, 02°34'31.9"S, 55°54'16.1"W. Holotype: MPEG 19612.

Distribution: 316 (Peixoto, Wosiacki, 2013).

Characidium pellucidum Eigenmann, 1909

Characidium pellucidum Eigenmann, 1909a:39. Type locality: Gluck Island. [Guyana]. Holotype: FMNH 52764.

Distribution: 310, 311* (Buckup, pers. obs.).

Characidium phoxocephalum Eigenmann, 1912

Characidium phoxocephalum Eigenmann, 1912b:26. Type locality: Paila. [Colombia]. Holotype: FMNH 56061.

Distribution: 302 (Eigenmann, 1912b).

Characidium pteroides Eigenmann, 1909

Characidium pteroides Eigenmann, 1909a:40. Type locality: Konawaruk. [Guyana]. Holotype: FMNH 53548.

- Distribution: 310 (Eigenmann, 1909a).
- Characidium pterostictum*** Gomes, 1947
Characidium pterostictum Gomes, 1947:18, Pl. 1 (fig. 3). Type locality: Rio Maquiné, a tributary of Lagôa dos Quadros, Conceição do Arroio County, Rio Grande do Sul, Brazil. Holotype: UMMZ 143289.
 Distribution: 330*, 331*, 335, 334*, 332*, 342*, 343*, 345* (Buckup, pers. obs.).
- Characidium pumarinri*** Teixeira, Melo, 2020
Characidium pumarinri Teixeira, Melo, 2020:2, figs. 1–2. Type locality: Perú, Departamento de Huánuco, provincial de Leoncio Prado, ciudad de Tingo Maria, Quebrada Uli, a tributary of Río Huallaga, Río Huallaga basin, 09° 14' 29.34"S, 76° 00' 34.3"W. Holotype: MUSM 69364.
 Distribution: 313 (Teixeira, Melo, 2020).
- Characidium purpuratum*** Steindachner, 1882
Characidium purpuratum Steindachner, 1882b:142. Type locality: Canelos. [Ecuador].
 Syntypes: NMW 69264 (4).
 Distribution: 313 (Steindachner, 1882b).
- Characidium rachovii*** Regan, 1913
Characidium (Jobertina) rachovii Regan, 1913a:231. Type locality: Paranagua, Brazil. [Type locality corrected to Vila da Quinta, Município de Rio Grande, RS, Brazil, by Buckup, Malabarba (1990)]. Syntypes: BMNH 1913.1.1.15–17 (3).
Characidium (Jobertina) theageri Travassos, 1952a:22, Pls. 1, 3, 6–9. Type locality: Paissandu - Uruguai. Holotype: MNRJ 4661.
 Distribution: 334*, 332*, 342*, 343*, 345* (Travassos, 1952a; Buckup, pers. obs.).
- Characidium roesseli*** Géry, 1965
Characidium roesseli Géry, 1965c:201, Pl. 18 (fig. 16), fig. 7. Type locality: Igarapé Preto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7213.
 Distribution: 316 (Géry, 1965c).
- Characidium samurai*** Zanata, Camelier, 2014
Characidium samurai Zanata, Camelier, 2014:333, fig. 1. Type locality: Brazil, Bahia, Piraí do Norte, rio do Peixe, tributary of rio das Almas, 13° 46' 35"S, 39° 23' 40"W. Holotype: MZUSP 108188.
 Distribution: 328 (Zanata, Camelier, 2014).
- Characidium sanctjohanni*** Dahl, 1960
Characidium sanctjohanni Dahl, 1960b:477, figure. Type locality: Noanamá, Río San Juan. [Colombia]. Holotype: ICN-MHN 211. [Agudelo-Zamora *et al.*, 2014].
 Distribution: 301 (Dahl, 1960b).
- Characidium satoi*** Melo, Oyakawa, 2015
Characidium satoi Melo, Oyakawa, 2015:282, figs. 2, 4. Type locality: Brazil, Minas Gerais, mun. Três Marias, Córrego Curral das Éguas, tributary of Rio Abaeté, Rio São Francisco basin, 18° 07' 13"S, 45° 24' 52"W. Holotype: MZUSP 114614.
 Distribution: 327 (Melo, Oyakawa, 2015).
- Characidium schindleri*** Zarske, Géry, 2001
Characidium schindleri Zarske, Géry, 2001c:234, figs. 4–5. Type locality: Bolivien, linker Nebenfluss zum Palmar, 114 km. [Bolivia. Neumann (2011:244 located type locality at approximately at 17° 0' 47.00"S, 65° 18' 25.00"W)]. Holotype: ZSM

29470.

Distribution: 318 (Zarske, Géry, 2001c).

Characidium schubarti Travassos, 1955

Characidium schubarti Travassos, 1955b:365, figs. 1–8. Type locality: Córrego entre Murtinhos e Jaguariaíva – Paraná. [Brazil]. Holotype: MNRJ 8853.

Distribution: 344 (Travassos, 1955b).

Characidium serrano Buckup, Reis, 1997

Characidium serrano Buckup, Reis, 1997:541, fig. 4A. Type locality: rio Jacutinga on road (BR283) between Seara and Concórdia, State of Santa Catarina, Brazil (approximately 27°10'S, 52°09'W). Holotype: MCP 12488.

Distribution: 333 (Buckup, Reis, 1997).

Characidium steindachneri Cope, 1878

Characidium steindachneri Cope, 1878:688. Type locality: Peruvian Amazon. [Several localities are mentioned in the article where the species was described, and the original description does not specify which one is the type locality, but indicates that the specimens were collected in 1873; in the beginning of the article the author states that most specimens collected in 1873 came from Nauta, Peru]. Holotype: ANSP 21428. [Fowler (1906:325, fig. 18); Böhlke (1984:54)].

Characidium catenatum Eigenmann, 1909a:40. Type locality: Warraputa. [Guyana]. Holotype: FMNH 52761.

Characidium ladigesi Géry, 1972b:77, Pl. 6 (figs. 1–2). Type locality: rio Villano. [Ecuador]. Holotype: ZMH H1864.

Distribution: 307*, 308*, 310*, 314*, 316, 318*, 319*, 320*, 321* (Buckup, pers. obs.).
Remarks: Precise distribution is unknown, because species limits are poorly known.

Characidium sterbai (Zarske, 1997)

Geryichthys sterbai Zarske, 1997:159, figs. 1–3. Type locality: Peru, Departamento Loreto, Rio Huacamayo, nahe Aguaytia (etwa 09°00'S, 75°29'W). Holotype: MTD F 17561.

Distribution: 317 (Zarske, 1997).

Characidium stigmosum Melo, Buckup, 2002

Characidium stigmosum Melo, Buckup, 2002:988, fig. 1. Type locality: Small stream tributary of córrego Ave Maria, near Santo Antônio farm headquarters, 14 km north of Cavalcante, mun. Cavalcante, Goiás, 13°47'S, 47°30'W, Brazil. Holotype: MZUSP 40804.

Distribution: 324 (Melo, Buckup, 2002).

Characidium summum Zanata, Ohara, 2015

Characidium summus Zanata, Ohara, 2015:369, figs. 1a, 2–3. Type locality: Brazil, Rondônia, Guajará-Mirim, upper rio Pacaás Novos, tributary of rio Mamoré, rio Madeira basin, 10°50'46.29"S, 63°37'47.29"W. Holotype: MZUSP 116954.

Distribution: 321 (Zanata, Ohara, 2015).

Characidium tapuia Zanata, Ramos, Oliveira-Silva, 2018

Characidium tapuia Zanata, Ramos, Oliveira-Silva, 2018:78, figs. 1–3. Type locality: Brazil, Maranhão, Loreto, creek tributary of rio Balsas, at the road between Loreto and Buritirana, Fazenda Fogoso, 06°59'34"S, 45°11'07"W, 275 m a.s.l. Holotype: UFPB 11604.

Distribution: 325 (Zanata, Ramos, Oliveira-Silva, 2018).

Characidium tatama Agudelo-Zamora, Tavera, Murillo, Ortega-Lara, 2020

Characidium tatama Agudelo-Zamora, Tavera, Murillo, Ortega-Lara, 2020:5, figs. 3–4, 8a–b. Type locality: Colombia, Chocó, San José Del Palmar, río Ingará by the bridge, 04°55'13.39"N, 76°12'21.48"W. Holotype: IMCN 8925.

Distribution: 301 (Agudelo-Zamora *et al.*, 2020).

Characidium tenue (Cope, 1894)

Chorimycterus tenuis Cope, 1894b:67. Type locality: upper waters of the Jacuhy [= Jacuí] river. [The detailed description of this species (Cope, 1894b) references to the description of the genus *Chorimycterus* Cope (1894), which indicates that the specimens were collected in the “upper waters of the Jacuhy River”, Brazil]. Holotype: ANSP 21576. [Fowler (1906:325); Böhlke (1984:55)].

Distribution: 332*, 334 (Buckup, pers. obs.).

Characidium timbuiense Travassos, 1946

Characidium timbuiensis Travassos, 1946:3, Pls. 1–4. Type locality: Córrego Valssungana - Tributário do Rio Timbuí - próximo a Santa Tereza - Município de Santa Teresa - Estado do Espírito Santo - Brasil - 785m de altitude. [Brazil]. Holotype: MNRJ 4285.

Distribution: 328 (Travassos, 1946).

Characidium travassosi Melo, Buckup, Oyakawa, 2016

Characidium travassosi Melo, Buckup, Oyakawa, 2016:[2], figs. 1, 3a–c. Type locality: Brazil, Paraná, Reserva do Iguaçu, rio das Torres, a small tributary of rio Jordão, rio Iguaçu basin, 38 km southeast of Pinhão, 25°48'28"S, 51°59'01"W. Holotype: MZUSP 85940.

Distribution: 330, 346 (Melo *et al.*, 2016).

Characidium vestigipinne Buckup, Hahn, 2000

Characidium vestigipinne Buckup, Hahn, 2000:151, fig. 1. Type locality: headwaters of rio Caraguatá (approximately 28°9'S, 52°18'W) approximately 200 m from RS-135 highway, at Fazenda [5 farm] Dückel, município Coxilha, Rio Grande do Sul, Brazil. Holotype: MCP 20317.

Distribution: 333 (Buckup, Hahn, 2000).

Characidium vidali Travassos, 1967

Characidium vidali Travassos, 1967:49, figs. 3–4. Type locality: Rio Soberbo, Barreira (Parque Nacional da Serra dos Órgãos, 400 m), 3° distrito de Magé, Rio de Janeiro. [Brazil]. Holotype: MNRJ 9757.

Distribution: 329*, 352 (Buckup, pers. obs.).

Characidium wangyapoik Armbruster, Lujan, Bloom, 2021

Characidium wangyapoik Armbruster, Lujan, Bloom, 2021:117, figs. 1A, 11–12. Type locality: Guyana (border with Brazil), Potaro-Siparuni (Region 8), Amazon River basin, Ireng River, first shoal upriver from split with Sukwabi Creek, 5.07711, -59.97423. Holotype: CSBD F-3615.

Distribution: 315 (Armbruster *et al.*, 2021).

Characidium xanthopterum Silveira, Langeani, da Graça, Pavanelli, Buckup, 2008

Characidium xanthopterum Silveira, Langeani, da Graça, Pavanelli, Buckup, 2008:170, figs. 1–2. Type locality: Brazil, Goiás, Mun. Caldas Novas, riacho outside of Parque Estadual de Caldas Novas, 17°46'9"S, 48°39'19"W. Holotype: DZSJRP 10474.

Distribution: 324, 344 (Silveira *et al.*, 2008).

Characidium xavante Da Graça, Pavanelli, Buckup, 2008

Characidium xavante Da Graça, Pavanelli, Buckup, 2008:329, figs. 4–5. Type locality: Brazil, Mato Grosso, Primavera do Leste, Córrego Xavante, on the road from MT-130 to Culuene dam, upper Rio Xingu basin, 14°38'24"S, 53°55'38"W. Holotype: LIRP 5285.

Distribution: 322, 320 (Da Graça *et al.*, 2008; Da Graça *et al.*, 2021).

Characidium zebra Eigenmann, 1909

Characidium zebra Eigenmann, 1909a:38. Type locality: Maripicru, a branch of the Ireng. [Guyana]. Holotype: FMNH 53547.

Characidium fasciadorsale Fowler, 1914a:233, fig. 3. Type locality: Rupununi River, British Guiana. [According to the original description, the type locality is situated “in North Latitude 2° to 3°, and West Longitude 50°20’”, but the longitude value is incorrect. The longitude of the Rupununi river at the stated latitude is at least 58°50'W, Guyana (Buckup, unpublished)]. Holotype: ANSP 39317 [not 39307]. [Catalog numbers of type specimens corrected by Böhlke (1984)].

Distribution: 307*, 309*, 310, 314*, 315*, 316*, 318*, 319*, 320*, 321*, 322*, 324* (Buckup, pers. obs.).

Remarks: Precise distribution is unknown, because species limits are poorly known.

Species inquirenda (Characidium)

Leporinus macrolepidotus Peters, 1868b:455. Type locality: Rio de Janeiro. [Brazil]. Holotype: ZMB 6774. [Géry *et al.* (2001) and Zarske (2012a) presented information on the holotype].

Remarks: Precise distribution is unknown because species is still undelimited.

CRENUCHUS Günther, 1863

Crenuchus Günther, 1863:443. Type species: *Crenuchus spilurus* Günther, 1863. Type by monotypy. Gender: Masculine.

Crenuchus spilurus Günther, 1863

Crenuchus spilurus Günther, 1863:443. Type locality: Essequibo, Guiana. [Guyana]. Holotype: BMNH 1864.1.21.92.

Distribution: 307*, 308*, 310, 311*, 314*, 315*, 316* (Buckup, 1993; Buckup, pers. obs.).

ELACHOCHARAX Myers, 1927

Elachocharax Myers, 1927:114. Type species: *Elachocharax pulcher* Myers, 1927. Type by original designation. Gender: Masculine.

Geisleria Géry, 1971:154. Type species: *Geisleria junki* Géry, 1971. Type by original designation. Gender: Feminine.

Elachocharax geryi Weitzman, Kanazawa, 1978

Elachocharax geryi Weitzman, Kanazawa, 1978:173, figs. 9–14. Type locality: Brazil, State of Amazonas, Rio Negro, Lago Paricatuba (3° 7'S, 60° 30'W). Holotype: MZUSP 13249.

Distribution: 307, 314 (Buckup, 1993).

Elachocharax junki (Géry, 1971)

Geisleria junki Géry, 1971:154, fig. 2. Type locality: rio Novo, affluent du rio Jamari à environ 45 km à l'est de Porto Velho sur le rio Madeira, Territorio Guaporé, Brésil. 63° 30' long. ouest, 8° 46' lat. Sud. ["Territorio de Guaporé" is currently the State of Rondônia, Brazil]. Holotype: MHNG 2229.07.

Distribution: 314, 321 (Buckup, 1993).

Elachocharax mitopterus Weitzman, 1986

Elachocharax mitopterus Weitzman, 1986:740, figs. 1–3. Type locality: Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Chola, where crossed by road from San Carlos de Río Negro to Solano, about 01° 58'N, 67° 00'W. Holotype: MBUCV-V-15270.

Distribution: 308, 314 (Buckup, 1993).

Elachocharax pulcher Myers, 1927

Elachocharax pulcher Myers, 1927:115. Type locality: Venezuela: Caño de Quiribana, near Caicara. Holotype: CAS 44250.

Elachocharax georgiae Géry, 1965c:204, Pl. 18 (fig. 18), figs. 8–9. Type locality: Igarapé Preto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7215.

Distribution: 307, 308, 314, 316 (Buckup, 1993).

KLAUSEWITZIA Géry, 1965

Klausewitzia Géry, 1965c:198. Type species: *Klausewitzia ritae* Géry, 1965. Type by original designation. Gender: Feminine.

Klausewitzia ritae Géry, 1965

Klausewitzia ritae Géry, 1965c:199, Pl. 18 (fig. 17), figs. 5–6. Type locality: Igarapé Preto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Brazil]. Holotype: SMF 7201 [not 7202].

Distribution: 316 (Buckup, 1993).

LEPTOCHARACIDIUM Buckup, 1993

Leptocharacidium Buckup, 1993:103. Type species: *Leptocharacidium omspilus* Buckup, 1993. Type by original designation. Gender: Neuter.

Leptocharacidium omspilus Buckup, 1993

Leptocharacidium omspilus Buckup, 1993:103, fig. 2. Type locality: mouth of left bank tributary ("white river") of Río Mawarinuma (= Río Baria), 5 km upstream of Neblina expedition base camp (66° 10'W, 0° 55'N, 120 m elevation), Departamento Río Negro, Territorio Federal del Amazonas, Venezuela. Holotype: AMNH 98287.

Distribution: 307, 308, 314 (Buckup, 1993).

MELANOCHARACIDIUM Buckup, 1993

Melanocharacidium Buckup, 1993:113. Type species: *Characidium blennioides* Eigenmann, 1909. Type by original designation. Gender: Neuter.

Melanocharacidium auroradiatum Costa, Vicente, 1994

Melanocharacidium auroradiatum Costa, Vicente, 1994:68, fig. 1. Type locality: Brésil: Estado de Goiás, um petit affluent du rio Verde, bassin du rio Araguaia, 1 km S de São Miguel do Araguaia, 13° 22'S, 50° 15'W. [Brazil]. Holotype: MNRJ 12444.

Distribution: 324 (Costa, Vicente, 1994).

Melanocharacidium blennioides (Eigenmann, 1909)

Characidium blennioides Eigenmann, 1909a:37. Type locality: Erukin, tributary of the Potaro above Kangaruma. [Guyana]. Holotype: FMNH 71043.

Distribution: 310 (Buckup, 1993).

Melanocharacidium compressum Buckup, 1993

Melanocharacidium compressus Buckup, 1993:114, fig. 5. Type locality: backwater of Río Orinoco, 66° 28'W, 3° 4'N, behind sand playa, circa 1/2 hour upstream from Isla Temblador, Territorio Federal del Amazonas, Venezuela. Holotype: ANSP 161666.

Distribution: 307, 308 (Buckup, 1993).

Remarks: Name as published in Buckup, 1993:114 is a typo. Correct name should be *Melanocharacidium compressum*, as in all illustrations of original descriptions.

Melanocharacidium depressum Buckup, 1993

Melanocharacidium depressum Buckup, 1993:117, fig. 7. Type locality: Cachoeira Morena, Rio Uatumã [approximately 2° 10'S, 59° 30'W], Estado do Amazonas, Brazil. Holotype: INPA 1738.

Distribution: 316 (Buckup, 1993).

Melanocharacidium dispilomma Buckup, 1993

Melanocharacidium dispilomma Buckup, 1993:120, fig. 8. Type locality: Cachoeira Morena, Rio Uatumã [approximately 2° 10'S, 59° 30'W], Estado do Amazonas, Brazil. Holotype: INPA 6628.

Distribution: 307, 308, 314, 315, 316, 320, 322, 324 (Buckup, 1993; Buckup, pers. obs.).

Melanocharacidium melanopteron Buckup, 1993

Melanocharacidium melanopteron Buckup, 1993:125, fig. 10. Type locality: Río Caroni, below Guri dam, Estado Bolívar, Venezuela. Holotype: MCNG 26957.

Distribution: 308 (Buckup, 1993).

Melanocharacidium nigrum Buckup, 1993

Melanocharacidium nigrum Buckup, 1993:128, fig. 12. Type locality: Rio Mucajaí, upstream of Ilha do Paredão, Território Federal de Roraima, Brazil. Holotype: INPA 1681.

Distribution: 315, 316 (Buckup, 1993).

Melanocharacidium pectorale Buckup, 1993

Melanocharacidium pectorale Buckup, 1993:130, fig. 13. Type locality: Cachoeira

Morena, Rio Uatumã [approximately 2° 10'S, 59° 30'W], Estado do Amazonas, Brazil. Holotype: INPA 6629.

Distribution: 308, 314, 315, 316 (Buckup, 1993).

Melanocharacidium rex (Böhlke, 1958)

Characidium rex Böhlke, 1958a:92, Pl. 5 (fig. 7). Type locality: Chicherota region, not far from the mouth of Río Bobonaza, Ecuador. Holotype: ANSP 75949.

Distribution: 313 (Böhlke, 1958a).

MICROCHARACIDIUM Buckup, 1993

Microcharacidium Buckup, 1993:137. Type species: *Jobertina eleotrioides* Géry, 1960.

Type by original designation. Gender: Neuter.

Microcharacidium bombioides Vieira, Netto-Ferreira, 2021

Microcharacidium bombioides Vieira, Netto-Ferreira, 2021:58, fig. 1. Type locality: Brazil, Amazonas, Novo Airão, Rio Negro basin (02° 37' 17" S, 60° 56' 39" W). Holotype: UFRGS 28560.

Distribution: 314, 316 (Vieira, Netto-Ferreira, 2021).

Microcharacidium eleotrioides (Géry, 1960)

Jobertina eleotrioides Géry, 1960b:4, figs. 2–3, photo p. 6. Type locality: little brook between “St. Patawa” and “St. Grand Bacou”, Middle-Mana, French Guiana, (between 4–5° N and 53–54° W). Holotype: MNHG 2201.13.

Distribution: 311 (Buckup, 1993).

Microcharacidium gnomus Buckup, 1993

Microcharacidium gnomus Buckup, 1993:137, fig. 16. Type locality: Small stream (Río Orinoco drainage), 5° 58' S, 67° 36' W, between Rio Paraíba [= Pacia] Grande and Puerto Ayacucho, ca. 25 km from Puerto Ayacucho, Departamento Ature, Territorio Federal del Amazonas, Venezuela. Holotype: MBUCV-V-21790.

Distribution: 307, 308, 314 (Buckup, 1993).

Microcharacidium weitzmani Buckup, 1993

Microcharacidium weitzmani Buckup, 1993:141, fig. 18. Type locality: Small “caño” (Río Orinoco drainage), 5° 25' W, 67° 46' N, 2 km south of Mirabel, Río Orinoco drainage, on road between Puerto Ayacucho and Samariapo, Departamento Ature, Territorio Federal del Amazonas, Venezuela. Holotype: MBUCV-V-21796.

Distribution: 307, 308, 314, 316, 323 (Buckup, 1993).

ODONTOCHARACIDIUM Buckup, 1993

Odontocharacidium Buckup, 1993:136. Type species: *Klausewitzia aphanes* Weitzman, Kanazawa, 1977. Type by original designation. Gender: Neuter.

Odontocharacidium aphanes (Weitzman, Kanazawa, 1977)

Klausewitzia aphanes Weitzman, Kanazawa, 1977:151, figs. 1–6. Type locality: São João, near Tapurucuara [0° 25' N, 65° 0' W], from a secondary stream (“ígarapé”) in terra firma Rio Negro drainage [Município de Santa Isabel do Rio Negro],

Estado do Amazonas, Brazil. Holotype: MZUSP 12978.

Distribution: 307, 308, 314, 316 (Buckup, 1993).

Odontocharacidium varii Queiroz Rodrigues, Netto-Ferreira, 2020

Odontocharacidium varii Queiroz Rodrigues, Netto-Ferreira, 2020:3, figs. 1–2.

Type locality: Venezuela, Río Negro Municipality, Río Orinoco, Caño Chola, where it crosses the road from San Carlos de Río Negro to Solano, 1°58'00"N, 67°00'00"W. Holotype: MHNLS 26156.

Distribution: 308, 314 (Queiroz Rodrigues, Netto-Ferreira, 2020).

POECILOCHARAX Eigenmann, 1909

Poecilocharax Eigenmann, 1909a:34. Type species: *Poecilocharax bovalii* Eigenmann, 1909. Type by monotypy. Gender: Masculine. Additional comments: Key to species in Ohara, Pastana, Camelier, 2022.

Poecilocharax bovaliorum Eigenmann, 1909

Poecilocharax bovalii Eigenmann, 1909a:34. Type locality: Creek at Savannah Landing. [Guyana]. Holotype: FMNH 53544.

Distribution: 308*, 310 (Buckup, pers. obs.).

Remarks: Original name has been emended because it refers to a patronym in plural form.

Poecilocharax callipterus Ohara, Pastana, Camelier, 2022

Poecilocharax callipterus Ohara, Pastana, Camelier, 2022:5. Type locality: Brazil, Amazonas State, Apuí, tributary of Rio Canadá, Rio Juma, Rio Aripuanã drainage, Rio Madeira Basin, road AM 174 between Apuí and Novo Aripuanã towns, 6°51'36"S, 59°58'36"W, 140 m above sea level (a.s.l.). Holotype: MZUSP 121650.

Distribution: 321 (Ohara, Pastana, Camelier, 2022).

Poecilocharax rhizophilus Ohara, Pastana, Camelier, 2022

Poecilocharax rhizophilus Ohara, Pastana, Camelier, 2022:14, figs. 12–14. Type locality: Brazil, Amazonas State, Apuí, Igarapé Mutum, tributary of the Rio Juma, Rio Aripuanã drainage, Rio Madeira basin, Apuí, Amazonas State, Brazil, 7°14'58"S, 59°58'40"W, 123 m a.s.l. Holotype: MZUSP 121652.

Distribution: 321 (Ohara *et al.*, 2022).

Poecilocharax weitzmani Géry, 1965

Poecilocharax weitzmani Géry, 1965c:207, Pl. 18 (fig. 19), figs. 10–11. Type locality: Igarapé Preto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km em aval de Leticia. [Brazil]. Holotype: SMF 7332.

Distribution: 308*, 314*, 316 (Buckup, pers. obs.).

SKIOTOCHARAX Presswell, Weitzman, Bergquist, 2000

Skiocharax Presswell, Weitzman, Bergquist, 2000:178. Type species: *Skiocharax meizon* Presswell, Weitzman, Bergquist, 2000. Type by original designation. Gender: Masculine.

Skiotocharax meizon Presswell, Weitzman, Bergquist, 2000

Skiotocharax meizon Presswell, Weitzman, Bergquist, 2000:185, figs. 1–6. Type locality: Guyana: tributary of the Mazaruni River, upstream of Aruwai Falls; approximately 6°18'45"N, 60°35'41"W. Holotype: CSBD uncat. Distribution: 310 (Presswell *et al.*, 2000).

CTENOLUCIIDAE Schultz, 1944**RP Vari**

Xiphostomi Swainson, 1838:259. (no family-group name)

Xiphostominae Boulenger, 1904 (correct spelling Xiphostomat-):576. Type genus: *Xiphostoma* Agassiz in Spix, Agassiz, 1829. Additional comments: Boulenger (1904b:576) misspelled Xiphostominae. Regan (1911:20) corrected the stem to Xiphostomat-. The name is objectively invalid since *Xiphostoma* Agassiz in Spix, Agassiz, 1829 was preoccupied by *Xiphostoma* Kirby, Spence, 1818 in Hemiptera. Ctenolucinae Schultz, 1944:258. Type genus: *Ctenolucius* Gill, 1861. Additional comments: Stem emended to Ctenoluci- by Fowler (1950:327).

Spixostomatidae Whitley, 1951b:407. Type genus: *Spixostoma* Whitley, 1951. Additional comments: replacement name for Xiphostomidae.

BOULENGERELLA Eigenmann, 1903

Xiphostoma Agassiz, in Spix, Agassiz, 1829:60, 78. Type species: *Xiphostoma cuvieri* Spix, Agassiz, 1829. Type by monotypy. Gender: Neuter. Additional comments: Preoccupied by *Xiphostoma* Kirby, Spence, 1818, in Hemiptera, replaced by *Spixostoma* Whitley, 1951.

Boulengerella Eigenmann, 1903:147. Type species: *Xiphostoma lateristriga* Boulenger, 1895. Type by original designation. Gender: Feminine.

Spixostoma Whitley, 1951b:407. Type species: *Xiphostoma cuvieri* Spix, Agassiz, 1829. Type by being a replacement name. Gender: Neuter. Additional comments: Replacement for *Xiphostoma* Agassiz, 1829, preoccupied by *Xiphostoma* Kirby, Spence, 1818, in Hemiptera.

Boulengerella cuvieri (Agassiz, 1829)

Xiphostoma cuvieri Agassiz, in Spix, Agassiz, 1829:79, Pl. 42. Type locality: Brasiliae fluviis. [Rivers of Brazil]. Holotype: MHNN 823.

Xiphostoma ocellatum Jardine, in Schomburgk, 1841:245, Pl. 23. Type locality: Essequibo R., Guyana. Lectotype: MNHN A-9853. [Designated by Vari (1995:79)].

Xiphostoma oseryi Castelnau, 1855:76, Pl. 40 (fig. 1). Type locality: Tocantins. [Brazil]. Holotype: MNHN 0000-4233 (head and skin).

Xiphostoma longipinne Steindachner, 1876c:132 [84]. Type locality: Mündung des Rio Negro. [Brazil]. Holotype: NMW (not found).

Distribution: 307, 308, 309, 310, 311, 313, 314, 315, 316, 320, 321, 322, 323, 324 (Vari, 1995; de Queiroz *et al.*, 2013).

Remarks: Author of species name is Agassiz according to Kottelat (1988); followed by Vari (1995).

Boulengerella lateristriga (Boulenger, 1895)

Xiphostoma lateristriga Boulenger, 1895b:449. Type locality: Manaus. [Manaus, Brazil]. Holotype: BMNH 1893.4.24.28.

Distribution: 308, 314 (Vari, 1995).

Boulengerella lucius (Cuvier, 1816)

Hydrocynus lucius Cuvier, 1816:168. Type locality: Brésil. [Brazil]. Holotype: MNHN A-8601 (dry).

Distribution: 307, 308, 314, 316 (Vari, 1995; de Queiroz *et al.*, 2013).

Boulengerella maculata (Valenciennes, 1850)

Xiphostoma maculatum Valenciennes, in Cuvier, Valenciennes, 1850:357. Type locality: Amazon. Holotype: MNHN 0000-4232.

Xiphostoma taedo Cope, 1872b:267, Pl. 13 (fig. 2). Type locality: Ambiyacu. [Peru]. Lectotype: ANSP 7958. [Designated by Fowler (1907:463). Treated as holotype by Böhlke (1984:66) and Vari, 1995].

Distribution: 308, 314, 315, 316, 320, 321, 323 (Vari, 1995).

Boulengerella xyrekes Vari, 1995

Boulengerella xyrekes Vari, 1995:82, figs. 46–50. Type locality: Brazil. Amazonas: Rio Negro basin, Rio Marauíá, Cachoeira de Bicho-Áçú, cataract pools (~ 00°20'S, 65°20'W). Holotype: MZUSP 32163.

Distribution: 308, 309, 314, 316 (Vari, 1995).

CTENOLUCIUS Gill, 1861

Ctenolucius Gill, 1861:8. Type species: *Xiphostoma hujeta* Valenciennes, 1850. Type by subsequent monotypy, established by Bean, 1908:701, who incorrectly identified the specimens as *Ctenolucius hujeta*. Gender: Masculine.

Luciocharax Steindachner, 1879e:67. Type species: *Luciocharax insculptus* Steindachner, 1878. Type by monotypy. Gender: Masculine.

Beloncharax Fowler, 1907:464. Type species: *Beloncharax beani* Fowler, 1907. Type by original designation. Gender: Masculine.

Ctenolucius beani (Fowler, 1907)

Beloncharax beani Fowler, 1907:464, fig. 51. Type locality: Truando, Rio Atrato basin in the Isthmus of Darien, Colombia. Holotype: ANSP 16642.

Luciocharax striatus Boulenger, 1911b:212. Type locality: Boca de Calima, Chocó, southwestern Colombia, elevation 150–200 feet. Holotype: BMNH 1919.7.11.210.

Distribution: 302, 303 (Vari, 1995).

Ctenolucius hujeta (Valenciennes, 1850)

Xiphostoma hujeta Valenciennes, in Cuvier, Valenciennes, 1850:358. Type locality: Rivières de Maracaïbo basin. [Venezuela]. Lectotype: MNHN 0000-4231. [Designated by Vari (1995:52)].

Luciocharax insculptus Steindachner, 1878:91. Type locality: Magdalenen-Stromes. [Colombia]. Lectotype: NMW 68252. [Designated by Vari (1995:52)].

Distribution: 210, 301 (Vari, 1995).

CURIMATIDAE Gill, 1858

CB Dillman, RP Vari

Curimatinae Gill, 1858:61. Type genus: *Curimata* Bosc, 1817.

Apolinarellini Fernández-Yépez, 1948:16. Type genus: *Apolinarella* Fernández-Yépez, 1948. Additional comments: Appeared first on page 14, but formally proposed on page 16 in a identification key.

Curimatellini Fernández-Yépez, 1948:16. Type genus: *Curimatella* Eigenmann, Eigenmann, 1889. Additional comments: Appeared first on page 14, but formally proposed on page 16 in an identification key.

Curimatopsini Fernández-Yépez, 1948:16. Type genus: *Curimatopsis* Steindachner, 1876.

Potamorhinini Fernández-Yépez, 1948:16. Type genus: *Potamorhina* Cope, 1878.

CURIMATA Bosc, 1817

Curimata Bosc, 1817:9. Type species: *Salmo edentulus* Bloch, 1794. Type species designated by International Commission on Zoological Nomenclature, Opinion 772, 1966. Gender: Feminine.

Curimatus Oken, 1817:1183. Type species: *Salmo edentulus* Bloch, 1794. Type by subsequent designation by Eigenmann, 1910:421. Gender: Masculine. Additional comments: This name was not ruled in Opinion 772, although it was mentioned in the case presented by Géry, 1963a:393 (see ICZN Opinion 772, 1966:43).

Semitapicis Eigenmann, Eigenmann, 1889c:417. Type species: *Charax planirostris* Gronovius, 1854. Type by subsequent designation by Eigenmann, 1910:422. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Curimatus*.

Peltapleura Fowler, 1906:300. Type species: *Salmo cyprinoides* Linnaeus, 1766. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Curimata*.

Acuticurimata Fowler, 1941b:166. Type species: *Curimatus macrops* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Feminine.

Allenina Fernández-Yépez, 1948:39. Type species: *Curimata murieli* Allen, 1942. Type by original designation. Gender: Feminine.

Bitricarinata Fernández-Yépez, 1948:64. Type species: *Curimatus schomburgkii* Günther, 1864. Type by original designation. Gender: Feminine.

Bondia Fernández-Yépez, 1948:66. Type species: *Curimatus mivartii* Steindachner, 1878. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Bondia* Newman, 1856 in Lepidoptera, replaced by *Bondichthys* Whitley, 1953a:134.

Camposella Fernández-Yépez, 1948:60. Type species: *Curimatus simulatus* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Feminine. Additional comments: Preoccupied by *Camposella* Cole, 1919 in Diptera, replaced by

- Camposichthys* Whitley, 1953a:134 (itself preoccupied by *Camposichthys* Travassos, 1946, in fishes; replaced by *Stupens* Whitley, 1954:30).
- Lambepiedra** Fernández-Yépez, 1948:62. Type species: *Lambepiedra alleni* Fernández-Yépez, 1948. Type by original designation. Gender: Feminine.
- Bondichthys** Whitley, 1953b:134. Type species: *Curimatus mivartii* Steindachner, 1878. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Bondia* Fernández-Yépez, 1948, preoccupied by *Bondia* Newman, 1856.
- Camposichthys** Whitley, 1953b:134. Type species: *Curimatus simulatus* Eigenmann, Eigenmann, 1889. Type by being a replacement name. Gender: Masculine. Additional comments: Preoccupied by *Camposichthys* Travassos, 1946, in fishes; replaced by *Stupens* Whitley, 1954:30.
- Stupens** Whitley, 1954:30. Type species: *Curimatus simulatus* Eigenmann, Eigenmann, 1889. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Camposichthys* Whitley, 1953, preoccupied by *Camposichthys* Travassos, 1946 in fishes.

Curimata acutirostris Vari, Reis, 1995

Curimata acutirostris Vari, Reis, 1995:298, fig. 1. Type locality: Marginal lagoons by Rio Araguaia near Luis Alves, Município de São Miguel do Araguaia, ca. 13° 14'S, 50° 53'W, Goiás, Brazil. Holotype: MCP 17396.

Distribution: 324 (Vari, Reis, 1995).

Curimata aspera Günther, 1868

Curimatus asper Günther, 1868a:478. Type locality: Huallaga and Xeberos. [Lectotype locality: Huallaga, Peru]. Lectotype: BMNH 1867.6.13.83. [Designated by Vari (1989b:52)].

Curimatus simulatus Eigenmann, Eigenmann, 1889c:430 [22]. Type locality: Tonantins, Fonteboa. [Lectotype locality: Fonte Boa]. Lectotype: MCZ 20198. [Designated by Vari (1989b:53)].

Distribution: 316, 317 (Vari, 1989b).

Curimata cerasina Vari, 1984

Curimata cerasina Vari, 1984b:30, fig. 1. Type locality: Venezuela, Apure, flooded area along road from San Fernando de Apure to Arichuna, 15 km southeast of San Fernando de Apure, approx. 7° 47'N, 67° 23'W. Holotype: MBUCV-V-14025.

Distribution: 307 (Vari, 1989b).

Curimata cisandina (Allen, 1942)

Psectrogaster cisandinus Allen, in Eigenmann, Allen, 1942:290, Pl. 14 (fig. 3). Type locality: Iquitos. [Peru]. Holotype: USNM 167834 [IU 17850].

Lambepiedra alleni Fernández-Yépez, 1948:62, fig. 33. Type locality: Rio Cashyboya. [Peru]. Holotype: CAS 57144.

Distribution: 315, 316 (Vari, 1989b).

Curimata cyprinoides (Linnaeus, 1766)

Salmo cyprinoides Linnaeus, 1766:514. Type locality: Surinami [Suriname]. No types known.

Salmo immaculatus Linnaeus, 1758:312. Type locality: America. Holotype: NRM 76. This name has been suppressed for the purposes of the Law of Priority ICZN

- (Opinion 772, 1966:41).
- Salmo edentulus* Bloch, 1794:97, Pl. 380. Type locality: Surinam [Suriname].
Holotype: ZMB 3523.
- Salmo curimata* Bloch, Schneider, 1801:417. Type locality: Habitat in lacubus Brasiliae [Brazil]. No types known. Unneeded new name for *Salmo cyprinoides* Linnaeus, 1766.
- Charax planirostris* Gronovius, in Gray, 1854:154. Type locality: Fluminibus Americis Meridionalis. No types known.
- Curimatus schomburgkii* Günther, 1864:291. Type locality: British Guiana [Guyana].
Lectotype: BMNH 1978.9.12.2. [Designated by Vari (1989b:40)].
- Curimata copei* Fowler, 1906:301, fig. 7. Type locality: Surinam [Suriname].
Holotype: ANSP 8201.
Distribution: 309, 310, 311, 315, 323, 324 (Vari, 1989b; Sidlauskas, Vari, 2012).
- Curimata incompta*** Vari, 1984
Curimata incompta Vari, 1984b:34, fig. 4. Type locality: Venezuela, Apure, Río Meta near Puerto Páez, approx. 6°13'N, 67°28'W. Holotype: MBUCV-V-5991.
Distribution: 307, 309 (Vari, 1989b).
- Curimata inornata*** Vari, 1989
Curimata inornata Vari, 1989:31, fig. 21. Type locality: Brazil, Pará, Rio Tapajós, Itaituba, edge of river channel (approx. 4°17'S, 55°59'W). Holotype: MZUSP 28648.
Distribution: 316, 320, 321, 322, 324 (Vari, 1989b; de Queiroz *et al.*, 2013).
- Curimata knerii*** Steindachner, 1876
Curimatus knerii Steindachner, 1876c:83 [35]. Type locality: Wahrscheinlich bei Teffe. [Brazil]. Holotype: NMW 68685.
Distribution: 314, 316, 320, 321 (Vari, 1989b; de Queiroz *et al.*, 2013).
- Curimata macrops*** Eigenmann, Eigenmann, 1889
Curimatus macrops Eigenmann, Eigenmann, 1889c:429 [21]. Type locality: Rio Puty. [= Rio Poti, Teresina, Brazil]. Lectotype: MCZ 20309. [Designated by Vari (1989b:45)].
Distribution: 325 (Vari, 1989b).
- Curimata mivartii*** Steindachner, 1878
Curimatus mivartii Steindachner, 1878:90. Type locality: Magdalenen-Stromes. [Colombia]. Lectotype: NMW 68759.1. [Designated by Vari (1989b:47)].
Distribution: 302 (Vari, 1989b).
- Curimata ocellata*** Eigenmann, Eigenmann, 1889
Curimatus ocellatus Eigenmann, Eigenmann, 1889c:427 [19]. Type locality: Xingu [Brazil]. Lectotype: MCZ 20339. [Designated by Vari (1989b:25)].
Curimatus semitaeniatus Steindachner, 1915c:18 [4]. Type locality: Moura näckst der Mündung des Rio Branco in den Rio Negro [Brazil]. Holotype: at NMW (missing).
Distribution: 308, 314, 316, 321, 323 (Vari, 1989b; de Queiroz *et al.*, 2013).
- Curimata roseni*** Vari, 1989
Curimata roseni Vari, 1989b:35, figs. 25–27. Type locality: Brazil, Roraima, Rio Branco, Cachoeira do Bem Querer, cataract pool (approx. 2°50'N, 60°43'W).
Holotype: MZUSP 28651.

Distribution: 308, 310, 314, 315, 316, 319, 321 (Vari, 1989b; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

Curimata vittata (Kner, 1858)

Curimatus vittatus Kner, 1858a:76, fig. 1. Type locality: Río Guapore und Negro. [Lectotype locality: Río Guapore]. Lectotype: NMW 68805.1. [Designated by Vari (1989b:29)].

Curimata murieli Allen, in Eigenmann, Allen, 1942:298, Pl. 14 (fig. 1). Type locality: Contamana, Rio Ucayali. [Peru]. Holotype: CAS 57148.

Distribution: 308, 310, 314, 315, 316, 319, 320, 321, 322 (Vari, 1989b; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

CURIMATELLA Eigenmann, Eigenmann, 1889

Curimatella Eigenmann, Eigenmann, 1889c:415. Type species: *Curimatus lepidurus* Eigenmann, Eigenmann, 1889. Type by subsequent designation by Eigenmann, 1910:420. Gender: Feminine.

Apolinarella Fernández-Yépez, 1948:22. Type species: *Curimatus meyeri* Steindachner, 1882. Type by original designation. Gender: Feminine.

Lepipinna Fernández-Yépez, 1948:26. Type species: *Anodus alburnus* Müller, Troschel, 1844. Type by original designation. Gender: Feminine.

Walbaunina Fernández-Yépez, 1948:24. Type species: *Curimatus dorsalis* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Feminine.

Curimatella alburna (Müller, Troschel, 1844)

Anodus alburnus Müller, Troschel, 1844:83. Type locality: Guiana [Guyana]. Lectotype: ZMB 3527 (larger specimen). [Designated by Vari (1992:29); described by Zarske (2012a:22–23)].

Curimatus alburnus var. *lineatus* Eigenmann, Eigenmann, 1889c:419 [11]. Type locality: Jutahy [Brazil]. Holotype: MCZ 20297.

Distribution: 310, 314, 315, 316, 318, 319, 321, 323 (Vari, 1992b; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

Curimatella dorsalis (Eigenmann, Eigenmann, 1889)

Curimatus dorsalis Eigenmann, Eigenmann, 1889c:420 [12]. Type locality: Coari, Manacapuru, Hyavary, Obidos. [Lectotype locality: Coary, Brazil]. Lectotype: MCZ 20183. [Designated by Vari (1992b:15)].

Curimatella alburnus var. *australe* Eigenmann, Kennedy, 1903:510. Type locality: Asuncion. [Paraguay]. Holotype: CAS 60626.

Curimatus elegans var. *paraguayensis* Eigenmann, Kennedy, 1903:510. Type locality: Estancia la Armonia, Arroyo Carumbey. [Paraguay]. Holotype: CAS 60583.

Curimatus (*Curimatella*) *alburnus* var. *caudimaculata* Pellegrin, 1909d:150. Type locality: Santarem. [Brazil]. Lectotype: MNHN 1909-0057. [Designated by Vari (1992b:17)].

Curimatus bolivarensis Steindachner, 1910:265. Type locality: Orinoco bei Ciudad Bolivar [Venezuela]. Lectotype: NMW 67037:2. [Designated by Vari (1992b:18)].
Distribution: 307, 309, 316, 318, 321, 324, 343, 344, 345 (Vari, 1992b; de Queiroz *et al.*, 2013).

Curimatella immaculata (Fernández-Yépez, 1948)

Lepipinna immaculata Fernández-Yépez, 1948:27, fig. 9. Type locality: Obidos, Brazil. Holotype: CAS 60630.

Distribution: 307, 308, 309, 310, 314, 315, 316, 321, 322, 323, 324 (Vari, 1992b; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

Curimatella lepidura (Eigenmann, Eigenmann, 1889)

Curimatus lepidurus Eigenmann, Eigenmann, 1889b:8. Type locality: Rio San Francisco below its falls [Brazil]. Lectotype: MCZ 20292 [not 20291]. [Designated by Vari (1992b:9)].

Distribution: 327 (Vari, 1992b).

Curimatella meyeri (Steindachner, 1882)

Curimatus meyeri Steindachner, 1882c:176. Type locality: Huallaga [Peru]. Holotype: MTD F 331.

Curimatus serpae Eigenmann, Eigenmann, 1889b:7. Type locality: Serpa [Brazil]. Lectotype: MCZ 20320. [Designated by Vari (1992b:23)].

Curimata reticulata Allen, in Eigenmann, Allen, 1942:295, Pl. 14 (fig. 2). Type locality: Lago Cashiboya, Peru. Holotype: CAS 60628.

Distribution: 314, 316, 317, 318, 319 (Vari, 1992b).

CURIMATOPSIS Steindachner, 1876

Curimatopsis Steindachner, 1876c:81. Type species: *Curimatus (Curimatopsis) macrolepis* Steindachner, 1876. Type by monotypy. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Curimatus*.

Curimatichthys Fernández-Yépez, 1948:71. Type species: *Curimatopsis microlepis* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Masculine.

Curimatopsis cryptica Vari, 1982

Curimatopsis crypticus Vari, 1982a:19, figs. 15–18. Type locality: Guyana, Rupununi District, stream 2 km east of Lake Amucu, approx. 3°43'N, 59°25'W. Holotype: USNM 226872.

Distribution: 310, 311, 314, 315, 316, 318, 321, 323 (Vari, 1982a; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

Curimatopsis evelynae Géry, 1964

Curimatopsis evelynae Géry, 1964c:47, figs. 13–14. Type locality: 200 miles east of Bogota, Colombia, in the upper Rio Meta drainage. Holotype: USNM 198644.

Distribution: 307, 314, 316 (Vari, 1982a).

Curimatopsis guaporensis Melo, Oliveira, 2017

Curimatopsis guaporensis Melo, Oliveira, 2017:3, fig. 1. Type locality: Brazil, Mato Grosso, Vila Bela da Santíssima Trindade, Córrego da Várzea in the road MT-199, Parque Estadual Serra de Ricardo Franco, Rio Guaporé, Rio Madeira, Amazon basin; 14°50'18"S, 60°04'14"W. Holotype: MZUSP 121189.

Distribution: 319, 321 (Melo, Oliveira, 2017).

Curimatopsis jaci Melo, Oliveira, 2017

Curimatopsis jaci Melo, Oliveira, 2017:10, figs. 4, 5. Type locality: Brazil, Pará, Jacareacanga, Amazon basin, Rio Tapajós, Rio Teles Pires, Rio São Benedito,

Rio Cristalino, upriver Thaimaçu lodge; 09°04'46"S, 56°31'51"W. Holotype: MZUSP 121197.

Distribution: 320 (Melo, Oliveira, 2017).

Curimatopsis macrolepis (Steindachner, 1876)

Curimatus (Curimatopsis) macrolepis Steindachner, 1876c:81 [33]. Type locality: Amazonen Stromes Zunachst der Mündung des Rio Negro, Tabatinga, Manacapuru. Lectotype: NMW 75992. [Designated by Vari (1982a:15)].

Curimatopsis macrocephalus Ahl, 1931a:207, fig. 1. Type locality: Amazonas. Holotype: ZMB 33934 (not 20818). [discovered, discussed, and figured by Zarske (2012a: 27–28)].

Distribution: 307, 309, 314, 316, 318, 321 (Vari, 1982; Melo, 2020).

Curimatopsis maculosa Melo, Vari, Oliveira, 2016

Curimatopsis maculosa Melo, Vari, Oliveira, 2016:304, fig. 1. Type locality: Brazil: Pará: Monte Cristo, Lagoa de Santa Clara, Rio Tapajós, Amazon basin, 4°05'00"S, 55°37'00"W. Holotype. MZUSP 118659.

Distribution: 316 (Melo *et al.*, 2016).

Curimatopsis melanura Dutra, Melo, Netto-Ferreira, 2018

Curimatopsis melanura Dutra, Melo, Netto-Ferreira, 2018:516, fig. 1. Type locality: Brazil, Pará, Faro, unnamed stream tributary of the Rio Nhamundá, Rio Amazonas, 01°42'23"S, 57°12'10"W. Holotype: MPEG 15335.

Distribution: 316 (Dutra, Melo, Netto-Ferreira, 2018).

Curimatopsis microlepis Eigenmann, Eigenmann, 1889

Curimatopsis microlepis Eigenmann, Eigenmann, 1889b:7. Type locality: Jatuarana. Holotype: MCZ 20344.

Distribution: 316, 321 (Vari, 1982a; de Queiroz *et al.*, 2013).

Curimatopsis myersi Vari, 1982

Curimatopsis myersi Vari, 1982b:788, figs. 1–2. Type locality: Swamp, 3 kms northwest of Lima, San Pedro Department, Paraguay (approx. 23°55'S, 56°29'W). Holotype: USNM 233602.

Distribution: 342, 343 (Vari, 1982b).

Curimatopsis pallida Melo, Oliveira, 2017

Curimatopsis pallida Melo, Oliveira, 2017:6, fig. 3. Type locality: Brazil, Amazonas, Manaus, Igarapé at the right margin ca. 20 km from mouth of Rio Cuieiras, Rio Negro; approx. 02°41' 51.8"S, 60°23' 57.6"W. Holotype: MZUSP 121192.

Distribution: 314 (Melo, Oliveira, 2017).

Curimatopsis sabana Melo, 2020

Curimatopsis sabana Melo, 2020:3, figs. 1, 4G–H. Type locality: Venezuela, Bolívar, río Paragua, above second rapid upriver from the río Carapo mouth, río Caroni, Orinoco basin, approximately 5°35'35"N, 63°42'19"W. Holotype: AMNH 274996.

Distribution: 308 (Melo, 2020).

CYPHOCHARAX Fowler, 1906

Cyphocharax Fowler, 1906:297. Type species: *Curimatus spilurus* Günther, 1864. Type by original designation. Gender: Masculine. Additional comments: Originally

proposed as a subgenus of *Curimata*.

Xyrocharax Fowler, 1914b:673. Type species: *Curimatus stigmaturus* Fowler, 1914.

Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Curimatus*.

Hemicurimata Myers, 1929:620. Type species: *Curimata esperanzae* Myers, 1929. Type by original designation. Gender: Feminine.

Curimatoides Fowler, 1940a:255. Type species: *Curimatoides ucayalensis* Fowler, 1940. Type by original designation. Gender: Masculine.

Cyphocharax abramoides (Kner, 1858)

Curimatus abramoides Kner, 1858a:76. Type locality: Barra do Rio Negro. [Brazil].

Holotype: NMW 67905.

Distribution: 307, 308, 314, 316, 320, 323 (Vari, 1992a).

Cyphocharax albula (Lütken, 1875)

Curimatus albula Lütken, 1875c:127 [1]. Type locality: Flumine Rio das Velhas et Rivulis Affluentibus. Lectotype: ZMUC P241361. [Designated by Vari (1992a:91)].

Cyphocharax lundi Dutra, Penido, Guimarães de Mello, Pessali, 2016:159, fig. 4. Type locality: Brazil, Minas Gerais State, Município Confins, Karst of Lagoa Santa, Córrego Capão de Santana, tributary of Córrego do Jaques, itself a tributary of the Rio das Velhas, Rio São Francisco drainage, 19° 36'55.61"S, 43° 57'20.46"W. Holotype. MCNIP 807. Status of species discussed by Dutra *et al.*, 2017:597.

Distribution: 327 (Dutra *et al.*, 2016; Dutra *et al.*, 2017).

Cyphocharax aninha Wosiacki, Miranda, 2014

Cyphocharax aninha Wosiacki, Miranda, 2014:627, fig. 1. Type locality: Brazil, Pará, Almeirim Municipality, Rio Mopeco, left tributary of Rio Paru, left tributary of lower Rio Amazonas, 0° 49'24.2"N, 53° 55'46.4"W. Holotype: MPEG 23609.

Distribution: 315 (Wosiacki, Miranda, 2014).

Cyphocharax aspilos Vari, 1992

Cyphocharax aspilos Vari, 1992a:61, figs. 40–42. Type locality: Venezuela, Zulia, Estación Centro Adistramiento Don Bosco, Carrasguero. Holotype: MBUCV-V-13286.

Distribution: 303 (Vari, 1992a).

Cyphocharax biocellatus Vari, Sidlauskas, Le Bail, 2012

Cyphocharax biocellatus Vari, Sidlauskas, Le Bail, 2012:64, fig. 1. Type locality: Suriname, Sipalawini, Litani River at mouth and confluence with Marowijni River, just upstream from settlement of Konya Kondre, 03° 17'24"N, 054° 04'38"W. Holotype: ANSP 189146.

Distribution: 311 (Vari *et al.*, 2012; Sidlauskas, Vari, 2012).

Cyphocharax boiadeiro Melo, 2017

Cyphocharax boiadeiro Melo, 2017:115, figs. 1–2. Type locality: Brazil, Mato Grosso, Alto Araguaia, córrego do Sapo, upriver Couto Magalhães falls, rio Araguaia, 17° 31'10.6"S, 53° 15'33.0"W. Holotype. LIRP 14133.

Distribution: 324 (Melo, 2017).

Cyphocharax caboclo Melo, Tencatt, Oliveira, 2022

Cyphocharax caboclo Melo, Tencatt, Oliveira, 2022:329, figs. 1–3, 7. Type locality:

- Brazil, Mato Grosso, Itiquira, Ribeirão Comprido, tributary of Rio Correntes, upper Rio Paraguai basin, 17° 32'05" S, 54° 25'36"W. Holotype: MNRJ 52506.
Distribution: 343 (Melo *et al.*, 2022).
- Cyphocharax corumbae*** (Pavanelli, Britski, 1999)
Steindachnerina corumbae Pavanelli, Britski, 1999:212, fig. 2. Type locality: Brazil, State of Goiás: Rio Pirapitanga, tributary of Rio Corumbá, Caldas Novas; 17° 48'S, 48° 33'W. Holotype: MZUSP 52361.
Distribution: 344 (Pavanelli, Britski, 1999).
Remarks: Generic placement discussed by Melo *et al.* (2018:810).
- Cyphocharax cramptoni*** Bortolo, Lima, 2020
Cyphocharax cramptoni Bortolo, Lima, 2020:2, fig. 1. Type locality: Brazil, Pará, Santarém, rio Mentai (trib. Rio Arapiuns), village of Cachoeirinha, 2° 43'28.64"S, 55° 36'5.60"W. Holotype: ZUEC 17124.
Distribution: 316 (Bortolo, Lima, 2020).
- Cyphocharax derhami*** Vari, Chang, 2006
Cyphocharax derhami Vari, Chang, 2006:94, fig. 1. Type locality: Peru: Departamento de Loreto: Provincia de Loreto: Río Marañón, Yanayacu, Quebrada Negra (4° 52'30"S, 74° 55'W). Holotype: MUSM 13272.
Distribution: 317 (Vari, Chang, 2006).
- Cyphocharax festivus*** Vari, 1992
Cyphocharax festivus Vari, 1992a:45, figs. 26–27. Type locality: Peru, Loreto, Caños entering Río Nanay, northeast of Iquitos, approx. 3° 49' S, 73° 11'W. Holotype: USNM 280426.
Distribution: 307, 308, 309, 310, 314, 315, 316 (Vari, 1992a).
- Cyphocharax gangamon*** Vari, 1992
Cyphocharax gangamon Vari, 1992a:96, figs. 72–73. Type locality: Brazil, Pará, Lago da Santa Clara, Rio Tapajós, Monte Cristo, approx. 4° 04'S, 55° 38'W. Holotype: MZUSP 22037.
Distribution: 320 (Vari, 1992a).
- Cyphocharax gilbert*** (Quoy, Gaimard, 1824)
Curimata gilbert Quoy, Gaimard, 1824:219, Pl. 48 (fig. 1). Type locality: Rio Macacu. [Type locality restricted to Rio Macacu at the village of Japuiba, 22° 33'40"S, 42° 41'40"W, State of Rio de Janeiro, Brazil, by Koerber, Reis, 2020:4]. Holotype: MNHN 0000-5430.
Salmo 7-radiatus Larrañaga, 1923:387. Type locality: Uruguay. No types known. Appeared as *Salmo edentulus vel 7-radiatus* and *Salmo 7-radiatus* in Devincenzi, 1925:311, 322, respectively and treated as a synonym of *Curimatus gilberti* [= *Cyphocharax gilberti*] Quoy, Gaimard, 1824.
Salmo edentulus Larrañaga, 1923:377. Type locality: Uruguay. No types known. Appeared as *Salmo edentulus vel 7-radiatus* and *Salmo edentulus* in Devincenzi, 1925:311, 322, respectively and treated as a synonym of *Curimatus gilberti* [*Curimata gilberti*] Quoy, Gaimard, 1824. Objectively invalid; preoccupied by *Salmo edentulus* Bloch, 1794 (Fricke *et al.*, 2022).
Pseudocurimata grandocule Fernández-Yépez, 1948:47, fig. 23. Type locality: Rio Doce, Espírito Santo, Brazil. Holotype: CAS 20352.
Distribution: 327, 328, 329, 352 (Vari, 1992a).

Cyphocharax gillii (Eigenmann, Kennedy, 1903)

Curimatus gillii Eigenmann, Kennedy, 1903:510. Type locality: Arroyo Trementina. [Paraguay]. Holotype: CAS 39829.

Curimatella rehmi Fowler, 1932:343, figure. Type locality: Descalvados, Matto Grosso, Brazil. Holotype: ANSP 53721.

Distribution: 343 (Vari, 1992a).

Cyphocharax gouldingi Vari, 1992

Cyphocharax gouldingi Vari, 1992a:107, figs. 80–81. Type locality: Brazil, Amapá, Rio Cupixi, along road to Serra Navio, mouth of rainforest stream, approx. 0°40'N, 51°40'W. Holotype: MZUSP 41762.

Distribution: 311, 322, 323, 324 (Vari, 1992a; Sidlauskas, Vari, 2012).

Cyphocharax helleri (Steindachner, 1910)

Curimatus helleri Steindachner, 1910:266. Type locality: Oberen Surinam. Syntypes: (3) NMW (apparently lost).

Curimatus vandeli Puyo, 1943:145 [5], fig. 3. Type locality: Une petite crique de la région du haut Marouni. Holotype: apparently lost.

Curimatopsis (Hemicurimata) esperanzae pijpersi Géry, 1965d:123, Pl. 2 (fig. 18). Type locality: “Vier Gebroeders Creek”, Paru Savannah, Sipiliwini River basin, Suriname. Holotype: ZMA 104283.

Distribution: 309, 310, 311, 323 (Vari, 1992a; Sidlauskas, Vari, 2012).

Cyphocharax jagunco Dutra, Penido, Guimarães de Mello, Pessali, 2016

Cyphocharax jagunco Dutra, Penido, Guimarães de Mello, Pessali, 2016:155, fig. 1. Type locality: Brazil, Minas Gerais State, Município Olhos D'água, Vereda Volta da Capoeira, tributary of Ribeirão da Areia, Rio Jequitinhonha drainage, 17°15'25.98"S, 43°43'35.91"W. Holotype: MCNIP 1612.

Distribution: 328 (Dutra *et al.*, 2016).

Cyphocharax laticlavus Vari, Blackledge, 1996

Cyphocharax laticlavus Vari, Blackledge, 1996:109, fig. 1. Type locality: Ecuador, Provincia Napo, Río Yasuni basin, quebrada tributary to Río Jatuncocha (approx. 1 km upstream from Laguna Jatuncocha, 1°00'06"N, 75°31'36"W). Holotype: FMNH 101503.

Distribution: 316 (Vari, Blackledge, 1996).

Cyphocharax leucostictus (Eigenmann, Eigenmann, 1889)

Curimatus leucostictus Eigenmann, Eigenmann, 1889c:425 [17]. Type locality: Rio Negro, Lago Alexo. [Brazil]. Lectotype: MCZ 787. [Designated by Vari (1992a:28)].

Curimatus (Curimatella) xinguensis Steindachner, 1908e:167. Type locality: Rio Xingu. [Brazil]. Holotype: NMW 68817.

Distribution: 310, 314, 315, 316, 321, 322, 323 (Vari, 1992a; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

Cyphocharax magdalenae (Steindachner, 1878)

Curimatus magdalenae Steindachner, 1878:90. Type locality: Magdalenen-Stromes. [Colombia]. Lectotype: NMW 68873.1. [Designated by Vari (1992a:58)].

Pseudocurimata steindachneri Fernández-Yépez, 1948:48, fig. 24. Type locality: Boca de Certegui, Hoya del Magdalena, Colombia. Holotype: CAS 60623.

Distribution: 206, 208, 210, 301, 302 (Vari, 1992a).

Cyphocharax meniscaprorus Vari, 1992

Cyphocharax meniscaprorus Vari, 1992a:105, fig. 79. Type locality: Venezuela, Bolivar, Río Aro, about 3 km downstream from bridge at Rt 19, about 85 km from Ciudad Bolivar (approx. 8° 0'N, 64° 15'W). Holotype: MBUCV-V-20333. Distribution: 307 (Vari, 1992a).

Cyphocharax mestomyllon Vari, 1992

Cyphocharax mestomyllon Vari, 1992a:77, fig. 54. Type locality: Brazil, Amazonas, Rio Negro basin, Rio Marauíá, Cachoeira de Bicho-Açu (approx. 0° 20'S, 65° 29'W). Holotype: MZUSP 41755. Distribution: 314 (Vari, 1992a).

Cyphocharax microcephalus (Eigenmann, Eigenmann, 1889)

Curimatus microcephalus Eigenmann, Eigenmann, 1889c:423 [15]. Type locality: Surinam. Lectotype: MCZ 785. [Designated by Vari (1992a:56)]. Distribution: 310, 311 (Vari, 1992a; Sidlauskas, Vari, 2012).

Cyphocharax modestus (Fernández-Yépez, 1948)

Curimatorbis modestus Fernández-Yépez, 1948:43, fig. 21. Type locality: Brazil, São Paulo, Batalha River, tributary of Tietê River, near Bauru. [Type locality corrected by Britiski (1969:201, 203) to Brazil, São Paulo, Batalha River, tributary of Tietê River, near Bauru]. Holotype: CAS 20299. Distribution: 344 (Vari, 1992a).

Cyphocharax multilineatus (Myers, 1927)

Curimatus multilineatus Myers, 1927:109. Type locality: Brazil: Rio Negro, Bucury. Holotype: CAS 58605. Distribution: 307, 308, 314, 315 (Vari, 1992a).

Cyphocharax muyrakytan Bortolo, Lima, Melo, 2018

Cyphocharax muyrakytan Bortolo, Lima, Melo, 2018:346, fig. 1. Type locality: Brazil, Pará, Santarém, Rio Arapiuns, lake two km north of Comunidade Santa Sofia, 2° 18'34"S, 55° 07'41"W. Holotype: ZUEC 14100. Distribution: 316 (Bortolo, Lima, Melo, 2018).

Cyphocharax naegelii (Steindachner, 1881)

Curimatus naegelii Steindachner, 1881b:98. Type locality: Umgebung von Rio de Janeiro. [Stated type locality apparently erroneous (Vari, 1992a:26)]. Holotype: NMW 68808. Distribution: 344 (Vari, 1992a).

Remarks: *Cyphocharax naegelii* [not *nagelii*] - originally described as "*Curimatus Nägelii*" and has to be corrected (ICZN, 1999: 32.5.2.1)

Cyphocharax nigripinnis Vari, 1992

Cyphocharax nigripinnis Vari, 1992a:49, figs. 29–30. Type locality: Brazil, Roraima, Rio Branco, Praia do Xeruini, approx. 1° 00'S, 61° 50'W. Holotype: MZUSP 42025. Distribution: 314, 316 (Vari, 1992a).

Cyphocharax notatus (Steindachner, 1908)

Curimatus notatus Steindachner, 1908e:166. Type locality: Fisch-markt zu Pará. [Brazil]. Holotype: NMW 75793. *Curimatus hermanni* Ahl, 1931a:207. Type locality: Rio Capim. Syntypes: ZMB orig. nos. 768, 769 (2, apparently lost).

- Distribution: 314, 316, 318, 319, 320, 321, 323 (Vari, 1992a; de Queiroz *et al.*, 2013).
- Cyphocharax oenas*** Vari, 1992
Cyphocharax oenas Vari, 1992:121, fig. 93. Type locality: Venezuela, Territorio Federal Delta Amacuro, secondary caño of Caño Paloma, 92 nautical miles from sea buoy (8°28'00"N, 61°24'36"W). Holotype: MBUCV-V-20336.
 Distribution: 307, 309 (Vari, 1992).
- Cyphocharax pantostictos*** Vari, Barriga S., 1990
Cyphocharax pantostictos Vari, Barriga S., 1990:551, fig. 1. Type locality: Ecuador, Napo, Laguna de Jatuncocha, 1°00'S, 75°29'W. Holotype: USNM 306594.
 Distribution: 316 (Vari, 1992a).
- Cyphocharax pinnilepis*** Vari, Zanata, Camelier, 2010
Cyphocharax pinnilepis Vari, Zanata, Camelier, 2010:382, figs. 1–2. Type locality: Brazil, Bahia, Aurelino Leal, Laje do Banco, Rio do Banco, tributary of Rio Gongogi, Rio de Contas basin, 14°22'01"S, 39°24'56"W. Holotype: MZUSP 103250.
 Distribution: 328 (Vari *et al.*, 2010).
- Cyphocharax platanus*** (Günther, 1880)
Curimatus platanus Günther, 1880:12. Type locality: Río de la Plata. [Argentina]. Lectotype: BMNH 1878.5.16.59. [Designated by Vari (1992a:23)].
 Distribution: 332, 342, 343, 345 (Vari, 1992).
- Cyphocharax plumbeus*** (Eigenmann, Eigenmann, 1889)
Curimatus plumbeus Eigenmann, Eigenmann, 1889c:425 [17]. Type locality: Lake Hyanuray. [Brazil]. Lectotype: MCZ 31493. [Designated by Vari (1992a:53)].
 Distribution: 314, 316, 319, 320, 321, 323, 324 (Vari, 1992; de Queiroz *et al.*, 2013).
- Cyphocharax punctatus*** (Vari, Nijssen, 1986)
Curimata punctata Vari, Nijssen, 1986:52, Pl. 1 (figs. 1–4). Type locality: Suriname, Marowijne District, Marowijne River system, Litani River near Kawatop Village, 3°11'N, 54°12'W. Holotype: USNM 275000.
 Distribution: 311 (Vari, 1992a).
- Cyphocharax saladensis*** (Meinken, 1933)
Curimatopsis saladensis Meinken, 1933:71, figure. Type locality: Rio Salada und seine Nebenflüsse. [Argentina]. Syntypes: ZMB (lost). [Vari (1992:71) reported four specimens (USNM 94307, 94306) as part of the “stock” that originally includes the types].
 Distribution: 334, 335, 343, 344, 345 (Vari, 1992a).
- Cyphocharax sanctigabrielis*** Melo, Vari, 2014
Cyphocharax sanctigabrielis Melo, Vari, 2014:328, fig. 1. Type locality: Brazil, Amazonas, São Gabriel da Cachoeira, Igarapé Nouba Uba, near BR-307 road, upper rio Negro, Amazon basin, 00°00.321'N, 66°55.357'W. Holotype. MZUSP 115004.
 Distribution: 314 (Melo, Vari, 2014).
- Cyphocharax santacatarinae*** (Fernández-Yépez, 1948)
Pseudocurimata santacatarinae Fernández-Yépez, 1948:50, fig. 25. Type locality: Santa Catarina, Brazil. [Britski (1969:203) refined locality information to: Hansa, às margens do Rio Itaji, perto de Blumenau, Estado de Santa Catarina, Brazil]. Holotype: CAS 11581.

Curimata vari Gaye-Siessegger, Fricke, 1998:3, fig. 1. Type locality: Rio Cubatão, 2 km above national hwy bridge, 27° 41'30"S, 48° 40'50"W, Santa Catarina, Brazil. Holotype: MCP 22105.

Distribution: 330, 331 (Vari, 1992a).

Cyphocharax signatus Vari, 1992

Cyphocharax signatus Vari, 1992a:67, fig. 47. Type locality: Brazil, Goiás, Rio Vermelho, where crossed by road from Aruanã to Britânia, pool along side of main channel. Holotype: MZUSP 41757.

Distribution: 324 (Vari, 1992a).

Cyphocharax spilotos (Vari, 1987)

Curimata spilota Vari, 1987:603, fig. 1. Type locality: Brazil, Rio Grande do Sul, Rio Santa Maria, at bridge on highway BR-293 between Dom Pedrito and Livramento. Holotype: MZUSP 37133.

Curimata gnaca Azpelicueta, Braga, 1988:118, fig. 1. Type locality: Pond of the Barrio Toba, a city district of Resistencia, Chaco Province, Argentina. Holotype: MLP 2-III-68-18.

Distribution: 332, 342, 343, 345 (Vari, 1992a; Corrêa *et al.*, 2014).

Cyphocharax spiluroopsis (Eigenmann, Eigenmann, 1889)

Curimatus spiluroopsis Eigenmann, Eigenmann, 1889c:420 [12]. Type locality: Ica. [Brazil, Rio Iça, tributary of Rio Solimões, near Brazilian-Colombian border]. Lectotype: MCZ 92961. [Designated by Vari, 1992:115].

Curimatus stigmaturus Fowler, 1914b:673. Type locality: Nauta, on the Marañon River, Peru. Holotype: ANSP 21424 (poor condition).

Curimata esperanzae Myers, 1929:620. Type locality: Cachueta Esperanza, Río Beni, Bolivia. Lectotype: CAS 63049. [Designated by Vari, 1992a:120].

Curimatoides ucayalensis Fowler, 1940a:256, fig. 55. Type locality: Ucayali River basin, Contamana, Peru. Holotype: ANSP 68670.

Distribution: 314, 316, 319, 321 (Vari, 1992a; de Queiroz *et al.*, 2013).

Cyphocharax spilurus (Günther, 1864)

Curimatus spilurus Günther, 1864:288. Type locality: Essequibo. [Guyana]. Lectotype: BMNH 1864.1.21.70. [Designated by Vari (1992:101)].

Curimatus surinamensis Steindachner, 1910:267. Type locality: Oberen Surinam [Suriname]. Syntypes: (4) NMW (apparently lost).

Distribution: 307, 308, 310, 311, 314, 315 (Vari, 1992a; Sidlauskas, Vari, 2012).

Cyphocharax stilbolepis Vari, 1992

Cyphocharax stilbolepis Vari, 1992a:20, figs 4–5. Type locality: Brazil, Pará, Rio Xingu, Belo Monte (approx. 3° 10'S, 5° 50'W). Holotype: MZUSP 41759.

Distribution: 322, 323, 324 (Vari, 1992a).

Cyphocharax tamuya Dutra, Vita, Gentile, Ochoa, Netto-Ferreira, 2022

Cyphocharax tamuya Dutra, Vita, Gentile, Ochoa, Netto-Ferreira, 2022:5, figs. 1, 2A. Type locality: Paraibuna River, Paraibuna, São Paulo, Brazil, 23° 22'59"S, 45° 40'00"W. Holotype: MZUSP 125833.

Distribution: 329 (Dutra, Vita, Gentile, Ochoa, Netto-Ferreira, 2022).

Cyphocharax vanderi (Britski, 1980)

Curimata vanderi Britski, 1980:327, fig. 1. Type locality: Lagoa marginal do Rio Corumbataí, São Paulo. [Brazil]. Holotype: MZUSP 4325.

Distribution: 344 (Vari, 1992a).

Cyphocharax vexillapinnus Vari, 1992

Cyphocharax vexillapinnus Vari, 1992a:39, figs. 20–22. Type locality: Peru, Loreto, Río Itaya, main river channel and mouth of caños entering river, 10 km upstream of Belén (Iquitos) (approx. 3° 51'S, 73° 12'W). Holotype: USNM 296394.

Distribution: 316 (Vari, 1992a).

Cyphocharax voga (Hensel, 1870)

Curimatus voga Hensel, 1870:78. Type locality: Rio dos Sinos bei S Leopoldo. [Brazil]. Lectotype: ZMB 7472. [Designated by Vari (1992a:81)].

Curimatopsis maculatus Ahl, 1934a:240. Type locality: Argentinien [Argentina]. Holotype: ZMB 20818.

Distribution: 332, 334, 335, 342, 343, 345 (Vari, 1992a).

POTAMORHINA Cope, 1878

Potamorhina Cope, 1878:685. Type species: *Curimatus (Anodus) pristigaster* Steindachner, 1876. Type by monotypy. Gender: Feminine.

Gasterotomus Eigenmann, 1910:422. Type species: *Anodus latior* Spix, Agassiz, 1829. Type by original designation. Gender: Masculine.

Suprasinelepichthys Fernández-Yépez, 1948:35. Type species: *Curimatus laticeps* Valenciennes, 1850. Type by original designation. Gender: Masculine.

Potamorhina altamazonica (Cope, 1878)

Curimatus altamazonicus Cope, 1878:684. Type locality: Peruvian Amazon [Peru]. Lectotype: ANSP 21118. [Designated by Fowler (1906:305). Treated as holotype by Böhlke (1984:66); and Vari (1984a:22)].

Distribution: 307, 308, 309, 316, 318, 319, 321, 327 (Vari, 1984a; de Queiroz *et al.*, 2013).

Potamorhina laticeps (Valenciennes, 1850)

Curimatus laticeps Valenciennes, in Cuvier, Valenciennes, 1850:21, Pl. 634. Type locality: Eaux douces des environs de la grande lagune de Maracaïbo. Lectotype: MNHN A-9772. [Designated by Vari (1984a:26)].

Distribution: 303 (Vari, 1984a).

Potamorhina latior (Spix, Agassiz, 1829)

Anodus latior Spix, Agassiz, 1829:61, Pl. 41. Type locality: Brasiliae aequatorialis fluviis [Brazil]. No types known.

Distribution: 316, 319, 321 (Vari, 1984a; de Queiroz *et al.*, 2013).

Remarks: Author of species name is Agassiz according to Kottelat (1988); as Spix in Vari, 1984a.

Potamorhina pristigaster (Steindachner, 1876)

Curimatus (Anodus) pristigaster Steindachner, 1876c:73 [25], Pl. 6. Type locality: Mündung des Rio Negro, Teffé. Lectotype: NMW 66920. [Designated by Vari (1984a:19)].

Distribution: 314, 316, 321 (Vari, 1984a; de Queiroz *et al.*, 2013).

Potamorhina squamoralevis (Braga, Azpelicueta, 1983)

Semitapiscis squamoralevis Braga, Azpelicueta, 1983:140, figs. 1–2. Type locality: Río

Paraná, em Rosario (Santa Fe). [Argentina]. Holotype: MLP 29-V-40-52.
Distribution: 342, 343, 344, 345 (Vari, 1984a).

PSECTROGASTER Eigenmann, Eigenmann, 1889

Psectrogaster Eigenmann, Eigenmann, 1889b:7. Type species: *Psectrogaster rhomboides* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Feminine.

Hamatichthys Fernández-Yépez, 1948:33. Type species: *Anodus ciliatus* Müller, Troschel, 1844. Type by original designation. Gender: Masculine.

Pseudopsectrogaster Fernández-Yépez, 1948:31. Type species: *Psectrogaster curviventris* Eigenmann, Kennedy, 1903. Type by original designation. Gender: Feminine.

Semelcarinata Fernández-Yépez, 1948:59. Type species: *Curimatus isognathus* Eigenmann, Eigenmann, 1889. Type by original designation. Gender: Feminine.

***Psectrogaster amazonica* Eigenmann, Eigenmann, 1889**

Psectrogaster amazonica Eigenmann, Eigenmann, 1889b:7. Type locality: Teffé, Ica, Tabatinga, Obidos, Fonteboa, Lago Alexo, Jutahy, Tonantins, Santarem, Hyavary, Curupira. [Lectotype locality: Lago Alexo]. Lectotype: MCZ 20312. [Designated by Vari (1989c:34)].

Distribution: 316, 321, 323, 324 (Vari, 1989c; de Queiroz *et al.*, 2013).

***Psectrogaster ciliata* (Müller, Troschel, 1844)**

Anodus ciliatus Müller, Troschel, 1844:84. Type locality: Guiana, aus dem see Amucu. [Guyana]. Holotype: ZMB 3528 (not 38280). [see Zarske (2012a: 23)].
Distribution: 307, 308, 309, 310, 314, 315 (Vari, 1989c; Sidlauskas, Vari, 2012).

***Psectrogaster curviventris* Eigenmann, Kennedy, 1903**

Psectrogaster curviventris Eigenmann, Kennedy, 1903:509. Type locality: Asuncion, Rio Paraguay. [Paraguay]. Holotype: CAS 57145.

Curimata pearsoni Myers, 1929:621. Type locality: Cachuela Esperanza, Río Beni, Bolivia. Holotype: CAS 57147.

Psectrogaster rhomboides australis Risso, Sánchez, 1964:6, Pl. 1. Type locality: Laguna de los alrededores de Resistencia, Argentina. Holotype: MCNCH 37/60.

Distribution: 318, 319, 342, 343, 344, 345 (Vari, 1989c).

***Psectrogaster essequibensis* (Günther, 1864)**

Curimatus essequibensis Günther, 1864:291. Type locality: Essequibo. [Guyana].
Lectotype: BMNH 1864.1.21.61. [Designated by Vari (1989:15)].

Distribution: 310, 311, 316, 319, 321 (Vari, 1989c; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).

***Psectrogaster falcata* (Eigenmann, Eigenmann, 1889)**

Curimatus falcatus Eigenmann, Eigenmann, 1889c:430 [22]. Type locality: Xingu, Gurupa. [Brazil]. Lectotype: MCZ 20340. [Designated by Vari (1989c:13)].

Distribution: 316, 322, 323 (Vari, 1989c).

***Psectrogaster rhomboides* Eigenmann, Eigenmann, 1889**

Psectrogaster rhomboides Eigenmann, Eigenmann, 1889b:7. Type locality: Rio Putz, San Goncallo. [Rio Poti; São Gonçalo, Piauí, Brazil]. Lectotype: MCZ 20306. [Designated by Vari (1989c:36)].

Distribution: 325, 326 (Vari, 1989c).

Psectrogaster rutiloides (Kner, 1858)

Curimatus rutiloides Kner, 1858a:76. Type locality: Matogrosso, Barra do Rio Negro. [Lectotype locality: Barra do Rio Negro, Brazil]. Lectotype: NMW 75980.2. [Designated by Vari (1989c:25)].

Curimatus isognathus Eigenmann, Eigenmann, 1889c:428 [20]. Type locality: Lago Alexo, Ica, Manacapuru, San Paulo. [Lectotype locality: Lago Alexo]. Lectotype: MCZ 20314. [Designated by Vari (1989c:23)].

Psectrogaster auratus Gill, 1896a:201. Type locality: Bolivia. Holotype: USNM 5878. Distribution: 314, 316, 318, 319, 321, 323 (Vari, 1989c; de Queiroz *et al.*, 2013).

Psectrogaster saguiru (Fowler, 1941)

Curimata saguiru Fowler, 1941b:164, fig. 77. Type locality: Lago Papary, Rio Grande do Norte, Brazil. Holotype: ANSP 69461.

Distribution: 326 (Vari, 1989c).

PSEUDOCURIMATA Fernández-Yépez, 1948

Pseudocurimata Fernández-Yépez, 1948:45. Type species: *Curimatus lineopunctatus* Boulenger, 1911. Type by original designation. Gender: Feminine.

Pseudocurimata boehlkei Vari, 1989

Pseudocurimata boehlkei Vari, 1989a:21, figs. 15–17. Type locality: Ecuador, Esmeraldas, Esteros La Bocana del Cupa 100 m below Puerto Cupa, Río Esmeraldas basin (0°26'N, 79°26'W). Holotype: USNM 287745.

Distribution: 301 (Vari, 1989a).

Pseudocurimata boulengeri (Eigenmann, 1907)

Curimatus boulengeri Eigenmann, in Eigenmann, Ogle, 1907:3. Type locality: Rio Vinces. [Ecuador]. Lectotype: BMNH 1898.11.40.50. [Designated by Vari (1989a:17)].

Curimatus guentheri Boulenger, 1898a:4. Type locality: Rio Vinces. Lectotype: BMNH 1898.11.40.50 (larger specimen). [Designated by Vari (1989a:17)]. Preoccupied by *Curimatus guentheri* Eigenmann, Eigenmann, 1889. Replaced by *Curimatus boulengeri* Eigenmann, 1907.

Curimatus boulengeri Pellegrin, 1909c:343 [2] (footnote). Type locality: Rio Vinces. Lectotype: BMNH 1898.11.40.50. [Designated by Vari (1989a:17)]. Unneeded replacement name for *Curimatus guentheri* Boulenger, 1898; replaced earlier with same name by Eigenmann in Eigenmann, Ogle (1907).

Distribution: 301 (Vari, 1989a).

Pseudocurimata lineopunctata (Boulenger, 1911)

Curimatus lineopunctatus Boulenger, 1911b:213. Type locality: Novita, Rio Tamana, Choco Department, 150–200 ft, southwestern Colombia. Lectotype: BMNH 1910.7.11.159. [Designated by Vari (1989a:14)].

Distribution: 301 (Vari, 1989a).

Pseudocurimata patiae (Eigenmann, 1914)

Curimatus patiae Eigenmann, in Eigenmann, Henn, Wilson, 1914:12. Type locality: Barbacoas. [Colombia]. Holotype: FMNH 56554.

Distribution: 301 (Vari, 1989a).

Pseudocurimata peruana (Eigenmann, 1922)

Curimatus peruanus Eigenmann, 1922:104, Pl. 18 (fig. 4). Type locality: Sullana, Peru. Holotype: CAS 41722.

Distribution: 301 (Vari, 1989a).

Pseudocurimata troschelii (Günther, 1860)

Anodus troschelii Günther, 1860a:418. Type locality: Western Andes of Ecuador. Lectotype: BMNH 1860.6.16.173. [Designated by Vari (1989a:20)].

Curimatus brevipes Eigenmann, Ogle, 1907:3, fig. 1. Type locality: Peru? [Pacific versant of northwestern Peru and southeastern Ecuador (Vari, 1989a:20; Vari *et al.* 2005:228)]. Holotype: USNM 35333.

Curimatus aureus Pellegrin, 1909c:343. Type locality: Rio Guayas (Équateur) [Ecuador]. Lectotype: MNHN A-9774. [Designated by Vari (1989a:20)].

Distribution: 301 (Vari, 1989a).

STEINDACHNERINA Fowler, 1906

Steindachnerina Fowler, 1906:298. Type species: *Curimatus trachystethus* Cope, 1878. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Curimata*.

Cruxentina Fernández-Yépez, 1948:52. Type species: *Curimata hypostoma hastata* Allen, 1942. Type by original designation. Gender: Feminine.

Curimatorbis Fernández-Yépez, 1948:42. Type species: *Curimata atratoensis* Eigenmann, 1912. Type by original designation. Gender: Masculine.

Rivasella Fernández-Yépez, 1948:56. Type species: *Curimata melaniris* Fowler, 1940. Type by original designation. Gender: Feminine.

Steindachnerina amazonica (Steindachner, 1911)

Curimatus elegans var. *amazonica* Steindachner, 1911a:330. Type locality: Rio Tocantins. [Brazil]. Lectotype: NMW 66988. [Designated by Vari (1991:82)].

Distribution: 324 (Vari, 1991).

Steindachnerina argentea (Gill, 1858)

Curimatus argenteus Gill, 1858:422 [62]. Type locality: Western portion of the island of Trinidad, W. I. Lectotype: USNM 1114. [Designated by Vari (1991:41)].

Distribution: 304, 307, 309 (Vari, 1991).

Steindachnerina atratoensis (Eigenmann, 1912)

Curimatus atratoensis Eigenmann, 1912b:19. Type locality: Quibdo, Colombia. Holotype: FMNH 56024.

Distribution: 301 (Vari, 1991).

Steindachnerina bimaculata (Steindachner, 1876)

Curimatus bimaculatus Steindachner, 1876c:76 [28]. Type locality: Hyavary, Mündung des Rio Negro. [Brazil]. Lectotype: MCZ 20232. [Designated by Vari (1991:48)].

Curimatus trachystethus Cope, 1878:684. Type locality: Peruvian Amazon. Holotype: ANSP 21470. [Fowler (1906:299, fig. 5); Böhlke (1984:67); Vari (1991:490)].

Curimatus bimaculatus var. *sialis* Eigenmann, Eigenmann, 1889c:422 [14]. Type locality: Manacapuru. [Brazil]. Lectotype: USNM 120401. [Designated by Vari

(1991:49)].

Prochilodus pterostigma Fowler, 1913b:520, fig. 3. Type locality: Madeira River, about twenty miles north of Porto Velho, Brazil. Holotype: ANSP 39187.

Curimatus semiornatus Steindachner, 1914a:262. Type locality: Mündung des Rio Negro. Lectotype: NMW 67102. [Designated by Vari (1991:50)].

Curimata melaniris Fowler, 1940a:253, fig. 54. Type locality: Ucayali River basin, Boca Chica, Peru. Holotype: ANSP 68669.

Distribution: 309, 316, 318, 321 (Vari, 1991; de Queiroz *et al.*, 2013).

Steindachnerina binotata (Pearson, 1924)

Curimatus binotatus Pearson, 1924:28, Pl. 9 (fig. 1). Type locality: Rurrenabaque. [Bolivia]. Holotype: CAS 60627.

Distribution: 318 (Vari, 1991).

Steindachnerina biornata (Braga, Azpelicueta, 1987)

Curimata biornata Braga, Azpelicueta, 1987:466, figs. 1–2. Type locality: Arroyo Juan Blanco, tributary of Río de la Plata, Municipality of Magdalena, Buenos Aires Province, Argentina (approx. 35°11'S, 57°24'W). Holotype: MLP 10-I-50-13.

Curimata stigmata Vari, 1987:606, fig. 3. Type locality: Brazil, Rio Grande do Sul, Rio Jacuí, at bridge on the road between Santa Maria and Veracruz (approx. 29°41'S, 53°19'W). Holotype: MZUSP 37135.

Distribution: 332, 333, 334, 342, 343, 345 (Vari, 1991).

Remarks: Date of publication of *Steindachnerina biornata* (Braga, Azpelicueta, 1987) is July 1987 and has precedence over *Curimata stigmata* Vari (published in October 1987).

Steindachnerina brevipinna (Eigenmann, Eigenmann, 1889)

Curimatus gilberti var. *brevipinnis* Eigenmann, Eigenmann, 1889c:424 [16]. Type locality: Rosario (La Plata). [Argentina]. Holotype: MCZ 789.

Curimatus nitens Holmberg, 1891:184. Type locality: República Argentina, Río Paraguay. No types known.

Distribution: 332, 343, 344 (Britski *et al.*, 2019).

Steindachnerina conspersa (Holmberg, 1891)

Curimatus conspersus Holmberg, 1891:185. Type locality: República Argentina, Río Paraguay, al pie de Formosa. No types known.

Distribution: 342, 343 (Vari, 1991).

Steindachnerina dobula (Günther, 1868)

Curimatus dobula Günther, 1868a:479. Type locality: Huallaga. [Peru]. Lectotype: BMNH 1867.6.13.55. [Designated by Vari (1991:69)].

Curimatus nasus Steindachner, 1882b:142. Type locality: Canelos, Ecuador. Lectotype: NMW 68900.1. [Designated by Vari (1991:69)].

Prochilodus stigmaturus Fowler, 1911b:494, fig. 1. Type locality: Affluent of the Chimbo River near Bucay, Province of Guayas, Ecuador. [Stated type locality erroneous, probably from eastern slope of Andes (Vari, 1991:66)]. Holotype: ANSP 39104.

Curimata hypostoma hastata Allen, in Eigenmann, Allen, 1942:297. Type locality: Río Pichis, Puerto Bermudez. [Peru]. Holotype: CAS 19881.

Curimata niceforoi Fowler, 1943d:224, figs. 1–3. Type locality: Florencia, Colombia.

Holotype: ANSP 70490.

Distribution: 313, 316, 318, 319, 321 (Vari, 1991; de Queiroz *et al.*, 2013).

Steindachnerina elegans (Steindachner, 1875)

Curimatus elegans Steindachner, 1875a:529 [31]. Type locality: Rio Arassuahy, ein neben fluss des Jequitinhonha in der Provinz Minas Gerais. [Brazil]. Lectotype: NMW 67001.1. [Designated by Vari (1991:95)].

Curimatus elegans var. *bahiensis* Eigenmann, Eigenmann, 1889c:421 [13]. Type locality: Bahia. Lectotype: MCZ 20325. [Designated by Vari (1991:96)].

Distribution: 327, 328 (Vari, 1991).

Steindachnerina fasciata (Vari, Géry, 1985)

Curimata fasciata Vari, Géry, 1985:1030, fig. 1. Type locality: Rio Romari (or São Domingo) near Nova União, Municipality of Ouro Preto do Oeste, Território de Rondônia, 10°53'17"S, 63°33'35"W, Brazil. Holotype: MNRJ 11208.

Distribution: 320, 321 (Vari, 1991; Netto-Ferreira, Vari, 2011; de Queiroz *et al.*, 2013).

Steindachnerina gracilis Vari, Williams Vari, 1989

Steindachnerina gracilis Vari, Williams Vari, 1989:474, figs. 1d, 5. Type locality: Brazil, Goiás, Rio Araguaia, Araunã, approx. 14°54'S, 51°05'W. Holotype: MZUSP 4847.

Distribution: 323, 324 (Vari, 1991).

Steindachnerina guentheri (Eigenmann, Eigenmann, 1889)

Curimatus guentheri Eigenmann, Eigenmann, 1889c:423 [15]. Type locality: Tabatinga. [Brazil]. Holotype: MCZ 20245.

Curimatus issororoensis Eigenmann, 1912a:266, Pl. 34 (fig. 4). Type locality: Issoror Rubber Plantation, British Guiana [Guyana]. Holotype: FMNH 53647.

Curimatus morawhannae Eigenmann, 1912a:266, Pl. 34 (fig. 3). Type locality: Morawhanna, British Guiana [Guyana]. Holotype: FMNH 53650. [Comments about types in Britski *et al.*, 2019].

Curimatus metae Eigenmann, 1922:230, Pl. 17 (fig. 1). Type locality: Quebrada Cramalote, Villavicencio. [Colombia]. Holotype: FMNH 55143.

Curimata robustula Allen, in Eigenmann, Allen, 1942:298. Type locality: creek, Yurimaguas. Lectotype: CAS 63052. [Designated by Vari (1991:87)].

Distribution: 307, 309, 316, 318, 321 (Vari, 1991; de Queiroz *et al.*, 2013).

Steindachnerina hypostoma (Boulenger, 1887)

Curimatus hypostoma Boulenger, 1887a:172. Type locality: Ucayali River. [Peru]. Lectotype: BMNH 1881.5.13.105. [Designated by Vari, Vari (1989:473)].

Distribution: 316, 321 (Vari, 1991; de Queiroz *et al.*, 2013).

Steindachnerina insculpta (Fernández-Yépez, 1948)

Cruxentina insculpta Fernández-Yépez, 1948:53, figs. 27–28. Type locality: Rio Tatuhy, Sao Paulo. [Brazil]. Holotype: CAS 20312.

Distribution: 344 (Britski *et al.*, 2019).

Remarks: Redescription in Britski *et al.* (2019).

Steindachnerina leucisca (Günther, 1868)

Curimatus leuciscus Günther, 1868a:479. Type locality: Huallaga. [Peru]. Lectotype: BMNH 1867.6.13.53. [Designated by Vari (1991:34)].

Curimatus leuciscus boliviae Eigenmann, Ogle, 1907:4. Type locality: Bolivia.

- Holotype: USNM 44832.
Allenina pectinata Fernández-Yépez, 1948:40, fig. 19. Type locality: Maracapuru, Brazil. [= Manacapuru]. Holotype: CAS 57149.
 Distribution: 316, 318, 319, 321 (Vari, 1991; de Queiroz *et al.*, 2013).
- Steindachnerina nigrotaenia*** (Boulenger, 1902)
Curimatus nigrotaenia Boulenger, 1902a:285. Type locality: Rio Coxipo, Mato Grosso [Brazil]. Lectotype: BMNH 1902.2.10.30. [Designated by Vari (1991:100).
 Comments on lectotype in Britski *et al.*, 2019:4].
 Distribution: 343 (Britski *et al.*, 2019).
- Steindachnerina notograptos*** Lucinda, Vari, 2009
Steindachnerina notograptos Lucinda, Vari, 2009:142, figs. 1–2. Type locality: Brazil, Tocantins, Paranã, Rio Palmas, 12°37'S, 47°52'W. Holotype: MCP 42579.
 Distribution: 324 (Lucinda, Vari, 2009).
- Steindachnerina notonota*** (Miranda-Ribeiro, 1937)
Curimatus notonotus Miranda-Ribeiro, 1937b:55. Type locality: Rio Granjeiro, Ceará. [Brazil]. Lectotype: MNRJ 2611. [Designated by Vari (1991:92)].
 Distribution: 323, 325, 326 (Vari, 1991).
- Steindachnerina planiventris*** Vari, Williams Vari, 1989
Steindachnerina planiventris Vari, Williams Vari, 1989:479, figs. 1C, 11. Type locality: Brazil, Rondônia, Rio Machado, near mouth (approx. 8°03'S, 62°53'W).
 Holotype: MZUSP 38587.
 Distribution: 310, 314, 315, 316, 321 (Vari, 1991; Sidlauskas, Vari, 2012; de Queiroz *et al.*, 2013).
- Steindachnerina pupula*** Vari, 1991
Steindachnerina pupula Vari, 1991:77, figs. 54–57. Type locality: Venezuela, Guarico, small caño draining into Río Orinoco, approximately 1 km upstream of mouth of Río Zuata. Holotype: MBUCV-V-19300.
 Distribution: 307, 308, 309 (Vari, 1991).
- Steindachnerina quasimodoi*** Vari, Williams Vari, 1989
Steindachnerina quasimodoi Vari, Williams Vari, 1989:476, figs. 1b, 6–7. Type locality: Peru, Loreto, Río Javari, near Petropolis. Holotype: USNM 293041.
 Distribution: 316 (Vari, 1991).
- Steindachnerina seriata*** Netto-Ferreira, Vari, 2011
Steindachnerina seriata Netto-Ferreira, Vari, 2011:524, fig. 1. Type locality: Brazil, Pará, Novo Progresso, Rio Jamanxim basin of Rio Tapajós system, near bridge along highway BR 163, south of Vila Mil, 07°51'47"S, 055°10'47"W. Holotype: MZUSP 97569.
 Distribution: 320 (Netto-Ferreira, Vari, 2011).
- Steindachnerina varii*** Géry, Planquette, Le Bail, 1991
Steindachnerina varii Géry, Planquette, Le Bail, 1991:32, Pl. 8 (fig. 2). Type locality: bassin du Maroni, Crique Awahakiki. [French Guiana]. Holotype: MHNG 2435.76.
Steindachnerina runa Vari, 1991:75, figs. 50–53. Type locality: Surinam, Brokopondo, Morawijne or Gran Creek, 63 km S of Afobaka [Suriname]. Holotype: ZMA 120501.
 Distribution: 311 (Vari, 1991).

Remarks: Date of publication of *Steindachnerina varii* Géry, Planquette, Le Bail, 1991 is April 1991 and has precedence over *Steindachnerina runa* Vari, published in May 1991.

CYNODONTIDAE Eigenmann, 1903

M Toledo-Piza

Cynodontinae Eigenmann, 1903:147. Type genus: *Cynodon* Spix, Agassiz, 1829.

Rhaphiodontinae Travassos, 1946:8. Type genus: *Rhaphiodon* Agassiz, 1829.

Hydrolicidi Fowler, 1958 (correct spelling Hydroly-):10. Type genus: *Hydrolycus* Müller, Troschel, 1844. Additional comments: Fowler (1958:10) misspelled Hydrolicidi. Van Der Laan *et al.* (2014) corrected to Hydrolycidi.

CYNODON Spix, 1829

Cynodon Cuvier, 1829:312. Type species: *Hydrocynus scomberoides* Cuvier, 1816. Type by monotypy. Gender: Masculine. Additional comments: Name placed on Official Index of Rejected and Invalid Generic Names in Zoology (ICZN Opinion 2012, 2002).

Cynodon Spix, in Spix, Agassiz, 1829:76. Type species: *Cynodon gibbus* Spix, Agassiz, 1829. Type by monotypy [but see Remarks]. Gender: Masculine. Additional comments: Placed on the Official List (ICZN Opinion 2012, 2002).

Camposichthys Travassos, 1946:132. Type species: *Cynodon gibbus* Spix, Agassiz, 1829. Type by original designation. Gender: Masculine. Additional comments: Name placed on Official Index of Rejected and Invalid Generic Names In Zoology (ICZN Opinion 2012, 2002).

Remarks: Authorship and types follow (ICZN Opinion 2012, 2002) which differs from Kottelat (1988).

Cynodon gibbus Spix, Agassiz, 1829

Cynodon gibbus Spix, Agassiz, 1829:77, Pl. 27. Type locality: Brasiliae fluviis. [Neotype locality: Lago Manacapuru, Amazonas, Brazil]. Neotype: MZUSP 6539. [Designated by Toledo-Piza (2000)].

Distribution: 307, 309, 310, 315, 316, 318, 319, 323, 324 (Toledo-Piza, 2000a).

Cynodon meionactis Géry, Le Bail, Keith, 1999

Cynodon meionactis Géry, Le Bail, Keith, 1999:70, fig. 1. Type locality: Antecume Pata, Haut Maroni em amont de Maripasoula. [French Guiana]. Holotype: MNHN 1998-0397.

Distribution: 311 (Géry *et al.*, 1999).

Remarks: Details about species diagnosis in Toledo-Piza (2000a).

Cynodon septenarius Toledo-Piza, 2000

Cynodon septenarius Toledo-Piza, 2000a:65, fig. 24. Type locality: Brazil, Amazonas, Rio Tefé, Supiã-Pucu (between 3°40' and 4°20'S, 65°50' and 65°10'W). Holotype: MZUSP 32590.

Distribution: 308, 310, 314, 316 (Toledo-Piza, 2000a).

HYDROLYCUS Müller, Troschel, 1844

Hydrolycus Müller, Troschel, 1844:93. Type species: *Hydrocynus scomberoides* Cuvier, 1819. Type by monotypy. Gender: Masculine.

Hydrolycus armatus (Jardine, 1841)

Hydrocyon armatus Jardine, in Schomburgk, 1841:249, Pl. 25. Type locality: Guiana. [Neotype locality: Guyana, Essequibo River, sandbars in vicinity of Maipuri campsite (4°34'N, 58°35'W)]. Neotype: ANSP 175725. [Designated by Toledo-Piza *et al.* (1999)].

Distribution: 307, 308, 309, 310, 315, 316, 320, 321, 322, 323, 324 (Toledo-Piza *et al.*, 1999).

Hydrolycus scomberoides (Cuvier, 1819)

Hydrocyon scomberoides Cuvier, 1819:357, Pl. 27 (fig. 2). Type locality: Brèsil. [Brazil]. Holotype: MNHN A-8659. [Picture of holotype in Toledo-Piza *et al.* (1999)].

Cynodon pectoralis Günther, 1866:30. Type locality: Upper Amazonas. [Upper rio Amazonas]. Holotype: BMNH 1866.2.15.22. [Picture, meristic and morphometric data of holotype in Toledo-Piza *et al.* (1999:274)].

Distribution: 314, 316, 318, 319, 321 (Toledo-Piza *et al.*, 1999).

Remarks: Comments about date of publication in Toledo-Piza *et al.* (1999:277).

Hydrolycus tatauaia Toledo-Piza, Menezes, Santos, 1999

Hydrolycus tatauaia Toledo-Piza, Menezes, Santos, 1999:263, fig.8. Type locality: Brazil, Pará, Rio Xingu, Belo Monte, 3°10'S, 51°50'W. Holotype: MZUSP 48005.

Distribution: 308, 310, 314, 315, 316, 320, 321, 322, 323, 324 (Toledo-Piza *et al.*, 1999).

Hydrolycus wallacei Toledo-Piza, Menezes, Santos, 1999

Hydrolycus wallacei Toledo-Piza, Menezes, Santos, 1999:259, fig .2. Type locality: Brazil, Amazonas, Rio Negro, Mandiquié, 0°30'S, 64°30'W. Holotype: MZUSP 32645.

Distribution: 307,308, 314 (Toledo-Piza *et al.*, 1999).

RHAPHIODON Agassiz, 1829

Rhaphiodon Agassiz, in Spix, Agassiz, 1829:59, 76. Type species: *Rhaphiodon vulpinus* Spix, Agassiz, 1829. Type by subsequent designation [originally designated by Eigenmann (1910:444), but see Remarks]. Gender: Masculine. Additional comments: Placed on the Official List (ICZN Opinion 2012, 2002).

Hydropardus Reinhardt, 1851:46. Type species: *Hydropardus rapax* Reinhardt, 1851. Type by monotypy. Gender: Masculine.

Rhaphiodontichthys Amaral Campos, 1945b:473. Type species: *Rhaphiodon vulpinus* Agassiz, 1829. Type by original designation. Gender: Masculine. Additional comments: Name placed on Official Index of Rejected and Invalid Generic Names In Zoology (ICZN Opinion 2012, 2002).

Remarks: Authorship and types follow (ICZN Opinion 2012, 2002).

***Rhaphiodon vulpinus* Spix, Agassiz, 1829**

Rhaphiodon vulpinus Spix, Agassiz, 1829:76, Pl. 26. Type locality: Brasiliae fluviis. [Type locality specified by Koerber 2021:93 as mouth of the Uruará canal to the Amazon River at the Vira Sebo community, village of Canaã, city of Prainha, Pará state, Brazil. DMS 01° 53'33"S, 53° 29'17"W; DDD -1.892554,-53.487991]. Holotype: MHNN 822. [Picture, meristic and morphometric data of holotype in Toledo-Piza *et al.* (2000a:75)].

Hydropardus rapax Reinhardt, 1849:46. Type locality: Montevideo. [Uruguay]. Holotype: ZMUC 183. [Picture, meristic and morphometric data of holotype in Toledo-Piza *et al.* (2000a:75)].

Distribution: 307, 308, 309, 310, 314, 315, 316, 318, 321, 322, 324, 343, 344, 332, 333 (Toledo-Piza, 2000a).

DISTICHODONTIDAE Günther, 1864

T Musschoot

Distichodontina Günther, 1864:280. Type genus: *Distichodus* Müller, Troschel, 1844. Additional comments: Géry (1977:58) used the stem Distichod-.

Ichthyborina Günther, 1864:280. Type genus: *Ichthyoborus* Günther, 1864. Additional comments: Boulenger (1904b:576) changed the stem to Ichthyobor- but it is an unjustified emendation (*Ichthyoborus* is preoccupied by *Ichthyoborus* Kaup, 1845 in birds).

Phagonina Günther, 1865a:175. Type genus: *Phago* Günther, 1865. Additional comments: Eigenmann (1909b:255) changed the stem to Phag-.

Nannocharacina Günther, 1867:112. Type genus: *Nannocharax* Günther, 1867.

Xenocharacinae Gill, 1893:131. Type genus: *Xenocharax* Günther, 1867.

Neolebiinae Eigenmann, 1909b:253. Type genus: *Neolebias* Steindachner, 1894.

Hemistichodontinae Regan, 1911:22. Type genus: *Hemistichodus* Pellegrin, 1900.

Nannaethiopidi Hoedeman, 1956a:12. Type genus: *Nannaethiops* Günther, 1872.

Remarks: Vari (1979:339) considered the Ichthyboridae (or Ichthyborinae) to be included within the Distichodontidae, therefore acting as first reviser in establishing priority.

BELONOPHAGO Giltay, 1929

***Belonophago* Giltay, 1929:271. Type species: *Belonophago hutsebouti* Giltay, 1929. Type by original designation. Gender: Masculine.**

***Belonophago hutsebouti* Giltay, 1929**

Belonophago hutsebouti Giltay, 1929:272, figure. Type locality: Buta (Congo Belge). [Democratic Republic of the Congo]. Holotype: RMCA 19816.

Distribution: 534, 535, 537, 540, 546 (Daget, Gosse, 1984; RMCA fish collection; CUMV fish collection).

***Belonophago tinanti* Poll, 1939**

Belonophago tinanti Poll, 1939:25, figs. 10–11. Type locality: Léopoldville and Kunungu (Bolobo), Congo Belge. [Democratic Republic of the Congo].

Syntypes: RMCA 39438 (1) Kinshasa, 41740–59 (20) Kinshasa, 43896–906 (11) Kinshasa, 44277–308 (30) Kinshasa, 52483–88 (6) Kunungu, 55104 (1) Kinshasa. [Based on the collection number, RMCA 44277–308 should contain 32 syntypes. However, a count of the specimens revealed only 30 are present, with a note mentioning that a single specimen was exchanged with the BMNH. The exchanged specimen agrees to BMNH 1939.3.20.1, but it cannot be determined if this specimen was (still) part of the syntype series as used for the description of *B. tinanti*, despite it being exchanged as a specimen of *B. hutsebouti*].

Distribution: 535, 546, 548 (Poll, 1939; Daget, Gosse, 1984; RMCA fish collection; SMF fish collection).

CONGOCHARAX Matthes, 1964

Congocharax Matthes, 1964b:75. Type species: *Hemigrammocharax olbrechtsi* Poll, 1954. Type by original designation. Gender: Masculine.

Congocharax olbrechtsi (Poll, 1954)

Hemigrammocharax olbrechtsi Poll, 1954:59, fig. 3. Type locality: Yangambi, riv. Lusambila, Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 77451.

Distribution: 537 (Poll, 1954; Matthes, 1964b; Daget, Gosse, 1984).

DISTICHODUS Müller, Troschel, 1844

Distichodus Müller, Troschel, 1844:87. Type species: *Characinus nefasch* Lacepède, 1803. Type by monotypy. Gender: Masculine.

Distichodomicroura Fowler, 1936:266. Type species: *Distichodus maculatus* Boulenger, 1898. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Distichodus*.

Distichodura Fowler, 1936:266. Type species: *Distichodus affinis* Günther, 1873. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Distichodus*.

Distichodus affinis Günther, 1873

Distichodus affinis Günther, 1873:144. Type locality: River Congo, Angola. [Type locality given as “Boma, lower Congo, Congo (Brazzaville)” in the BMNH (now NHMUK) online collection database (although Boma is not located in Congo-Brazzaville but in the Democratic Republic of the Congo) and as “Boma” in Fricke *et al.* (2022). Boma is located on the right bank of the lower Congo River in Democratic Republic of the Congo, whose lower section (downstream from Matadi and including the section where Boma is located) forms the border between Angola (left bank) and Democratic Republic of the Congo (right bank)]. Holotype: BMNH 1873.7.28.24.

Distichodus abbreviatus Peters, 1877b:845. Type locality: Congo. Holotype: ZMB 9835.

Distribution: 534, 535, 536, 537, 539, 540, 541, 546, 548, 550 (Daget, Gosse, 1984;

RMCA fish collection).

Distichodus altus Boulenger, 1899

Distichodus altus Boulenger, 1899b:80, Pl. 35 (fig. 1). Type locality: Lac Léopold II (Kutu et Utanda), Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.9.26.113 (1) Ibali; RMCA 733 to 734 (1, 1).

Distribution: 520, 534, 535, 537, 546, 547, 548 (Pellegrin, 1904b; Daget, Gosse, 1984; RMCA fish collection; MNHN fish collection; AMNH fish collection).

Distichodus antonii Schilthuis, 1891

Distichodus antonii Schilthuis, 1891:89. Type locality: Bayari-sea, Congo. [Democratic Republic of the Congo]. Holotype: BMNH 1899.9.6.10. [See Moelants *et al.* (2014) for notes on the identification of the holotype].

Distribution: 534, 535, 536, 537, 539, 540, 545, 546, 548, 549, 550 (Moelants *et al.*, 2014).

Distichodus atroventralis Boulenger, 1898

Distichodus atroventralis Boulenger, 1898b:28, Pl. 13 (fig. 2). Type locality: Boma (2) et Lac Bayari (1), Bas Congo. [Lectotype from: “DRC: Lake Bayari, Congo River, Lower Congo”. Democratic Republic of the Congo]. Lectotype: BMNH 1891.12.29.13. [Designated by Moelants *et al.*, 2018:182].

Distribution: 534, 535, 537, 540, 546, 548, 549, 550 (Moelants *et al.*, 2014; Boulenger, 1909a; Gosse, 1968).

Remarks: Redescription of species presented by Moelants *et al.*, 2018.

Distichodus brevipinnis Günther, 1864

Distichodus brevipinnis Günther, 1864:361. Type locality: Chartoum, Upper Nile. [Sudan]. Syntypes: BMNH 1862.6.17.104–106 (3).

Distribution: 505, 506, 507, 508, 509, 516, 520, 522 (Gosse, Coenen, 1990; Gosse *et al.*, 2003).

Distichodus decemmaculatus Pellegrin, 1926

Distichodus decemmaculatus Pellegrin, 1926:160. Type locality: Kunungu (bassin du Congo), Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 19697.

Distribution: 535, 537, 540, 546 (David, Poll, 1937; Lambert, 1961; Stiassny *et al.*, 2021a).

Distichodus engycephalus Günther, 1864

Distichodus engycephalus Günther, 1864:361. Type locality: Chartoum, Upper Nile. [Sudan]. Syntypes: BMNH 1862.6.17.80–81 (2).

Distichodus touteei Pellegrin, 1906d:472. Type locality: Niger: entre Gaya, Boussa et Badjibo. [Niger River between Gaya (Niger), Boussa (= Bussa, Nigeria) and Badjibo (upstream from Jebba, Nigeria)]. Syntypes: MNHN 1900–0103 to 0105 (3).

Distribution: 505, 506, 507, 508, 516, 517, 518, 520, 522, 523 (Gosse *et al.*, 2003; Vari, 2007; Boulenger, 1907c).

Distichodus fasciolatus Boulenger, 1898

Distichodus fasciolatus Boulenger, 1898b:28, Pl. 14. Type locality: Boma, Manyanga, Léopoldville (bassin du Congo). [Lectotype from: “Boma (DRC) ($\pm 5^{\circ}50'S$, $13^{\circ}03'E$)”. Democratic Republic of the Congo]. Lectotype: RMCA 23. [Designated by Moelants *et al.* (2014)].

Distribution: 534, 535, 536, 537, 538, 540, 541, 545, 546, 548, 549, 550 (Kisekelwa *et al.*, 2020; Moelants *et al.*, 2014).

Distichodus hypostomatus Pellegrin, 1900

Distichodus hypostomatus Pellegrin, 1900b:351. Type locality: Adouma (Ogôoué), Congo français. [Gabon]. Syntypes: MNHN 1886-0369 to 0371 (3).

Distribution: 532, 533 (Vari, 2007).

Remarks: *Distichodus hypostomatus* Vaillant in Rivière 1886 is an unavailable name.

Distichodus ingae Moelants, Snoeks, 2018

Distichodus ingae Moelants, Snoeks, in Moelants, Snoeks, Vreven, 2018:189, figs. 5a,b, 11. Type locality: DRC, Congo River near Inga, a few km upstream and on the opposite side of river from Inga hydroelectric dam, 5°27'30"S, 13°36'00"E. [Democratic Republic of Congo]. Holotype: MCZ 50439.

Distribution: 549 (Moelants *et al.*, 2018).

Distichodus kasaiensis Vreven, Moelants, Snoeks, 2018

Distichodus kasaiensis Vreven, Moelants, Snoeks, in Moelants, Snoeks, Vreven, 2018:187, figs. 9–10. Type locality: DRC: Lukoshi River above and below rapids of Mukanda or Kamakamaka, Lulua subbasin, approximately 14.5 km in a straight line SSW of Kasaji, 10°30'44"S, 23°23'08"E. [Democratic Republic of Congo]. Holotype: RMCA B2-030-P-1389.

Distribution: 546 (Moelants *et al.*, 2018).

Distichodus kollerii Holly, 1926

Distichodus kollerii Holly, 1926:158. Type locality: Sanaga und Bam-fluss, einem Nebenflusse des Sanaga in Kamerun. [“Sanaga and Bam River, an affluent of the Sanaga in Cameroon”]. Syntypes: NMW 7167 (1), 7168–72 (5).

Distichodus vexillifer Pellegrin, 1927a:139. Type locality: Noun, près de Bafousam (Cameroun) et Nanga-Tboko (Moyenne Sanaga-Cameroun). [Noun, near Bafousam and Nanga-Tboko (middle Sanaga River) in Cameroon]. Syntypes: MNHN 1927-0087 to 0089 (1, 1, 1) Noun River, 1927-0090 (1) Sanaga River. [Based on the online collection database of the MNHN, MNHN 1927-0087 to 0089 were collected at Bafousam (Sanaga River basin, Cameroon) and MNHN 1927-0090 was collected at Nanga-Eboko (Sanaga River basin, Cameroon)].

Distribution: 505 (Vari, 2007).

Distichodus langi Nichols, Griscom, 1917

Distichodus langi Nichols, Griscom, 1917:687, Pl. 69. Type locality: Faradje, Belgian Congo. [Democratic Republic of the Congo]. Holotype: AMNH 5915.

Distribution: 536, 537, 540, 541 (Kisekelwa *et al.*, 2020; Abwe *et al.*, 2019; Moelants *et al.*, 2014).

Distichodus lusosso Schilthuis, 1891

Distichodus lusosso Schilthuis, 1891:90. Type locality: Bayari-sea. [The type locality given with the original description is “Bayari-Sea”, while the introductory part of the publication mentioned that the specimens reported upon originated from “Boma, lower Congo, and for the greater part from Kinshassa, Stanley Pool, upper Congo, near Brazzaville”. Democratic Republic of Congo]. Syntypes: BMNH 1891.12.29.13 (1), 1899.9.6.11 (1). [(1) BMNH 1898.11.17.18–19 (2), listed as syntypes in Daget, Gosse (1984) and Eschmeyer (1998), are not type specimens. They are much larger than those mentioned in the original description

of the species (240–360 mm TL versus at most 168 mm TL, respectively) and are from another collector (“Pres? by the Secretary of State, Congo Free State”, versus collected by Mr. A Greshoff). In addition, the larger specimens originated from “Manyanga” and were originally registered in the BMNH collection as *D. leptorhynchus* Boulenger, 1897. (2) BMNH 1891.12.29.13, which is here identified as the smaller of the two syntypes mentioned in the original description of *D. lusosso*, measuring about 63.5 mm SL, is also syntype of *D. atroventralis* Boulenger 1898. BMNH 1899.9.6.11, although slightly smaller than the size given in the original description (about 152 mm TL instead of 168 mm TL), is believed to be the larger of the two syntypes. Both BMNH 1891.12.29.13 and BMNH 1899.9.6.11 are catalogued in the BMNH register as types, the former from “lower Congo”, the latter from “Kinshassa, Stanley Pool”].

Distichodus leptorhynchus Boulenger, 1897b:425. Type locality: Stanley Falls, upper Congo. [Democratic Republic of the Congo]. Holotype: BMNH 1897.9.30.17. Distribution: 534, 535, 536, 537, 539, 540, 541, 545, 546, 548, 549 (Daget, Gosse, 1984; Ibalá Zamba, 2010; RMCA fish collection).

Remarks: Vernacular name: Lusosso. *Distichodus fasciatus* Vaillant in Rivière 1886 is an unavailable name.

Distichodus maculatus Boulenger, 1898

Distichodus maculatus Boulenger, 1898b:27, Pl. 13 (fig. 1). Type locality: Manyanga, Congo. [Democratic Republic of the Congo]. Holotype: RMCA 86.

Distribution: 534, 535, 536, 537, 540, 542, 543, 544, 545, 546, 548, 549 (Daget, Gosse, 1984; RMCA fish collection; Eccles, 1992).

Distichodus mbiniensis Schmidt, Knobloch, Barrientos, 2021

Distichodus mbiniensis Schmidt, Knobloch, Barrientos, 2021:305, fig. 7. Type locality: Equatorial Guinea, Wele-Nzas, Rio Ntoro at Aconibe Acurenem Rd., 668 m elev, 1.29091°N, 10.9174°E. Holotype: USNM 451317.

Distribution: 533 (Schmidt *et al.*, 2021).

Distichodus microps Schmidt, Knobloch, Barrientos, 2021

Distichodus microps Schmidt, Knobloch, Barrientos, 2021:301, fig. 5. Type locality: Equatorial Guinea, Litoral, Rio Mbia at Menzong, 32 m elev, 2.07529°N, 9.92378°E. Holotype: USNM 451325.

Distribution: 533 (Schmidt *et al.*, 2021).

Distichodus mossambicus Peters, 1852

Distichodus mossambicus Peters, 1852:275. Type locality: Mossambique. [Daget, Gosse (1984) specify the type locality as “Tette, Zambezi River”. Mozambique]. Syntypes: ZMB 3564 (1), 6613 (1).

Distichodus macrolepis Günther, 1864:362. Type locality: Shire River, near the island of Dakanamois. [Malawi]. Holotype: BMNH 1864.1.9.62 (skin).

Distribution: 558, 561, 576 (Skelton, 2001; Moelants *et al.*, 2014).

Distichodus nefasch (Bonnaterre, 1788)

Salmo nefasch Bonnaterre, 1788:169. Type locality: Nile. [Type locality is probably situated in Egypt: Bonnaterre (1788) mentions the specific name “nefasch” is used in reference to the common name for the species as used by the Egyptians]. No types known.

Salmo aegyptius Gmelin, 1789:1386. Type locality: Aegypto. [Egypt]. No types

known.

Characinus nefasch Lacepède, 1803:270. Type locality: Nile River. No types known. Bertin (1948) incorrectly attributed type status to the following specimens: MNHN A-8603 and 9878 (2, dry), MNHN A-9587 (1), A-9588 (4), A-7929 (1), A-9879 to A-9881 (1, 1, 1, 1), A-8602 (1).

Distichodus rudolphi Günther, 1896a:223. Type locality: Lake Rudolf [Lake Turkana]. Syntypes: ANSP 14559 (1), BMNH 1895.12.31.71 (1).

Distribution: 522, 523, 530 (Boulenger, 1907c; Lévêque *et al.*, 1991; Daget, Gosse, 1984).

Remarks: *Salmo niloticus* Hasselquist, 1762 is an unavailable name.

Distichodus noboli Boulenger, 1899

Distichodus noboli Boulenger, 1899b:81, Pl. 35 (fig. 2). Type locality: Kutu (Lac Léopold II), Congo. [Democratic Republic of the Congo]. Holotype: RMCA 735.

Distribution: 534, 535, 537, 538, 546, 547, 548 (Daget, Gosse, 1984; RMCA fish collection; CUMV fish collection; SMF fish collection; Boulenger, 1909a; Matthes, 1964b).

Distichodus notospilus Günther, 1867

Distichodus notospilus Günther, 1867:114 [6]. Type locality: Gaboon [Gabon]. Syntypes: BMNH 2013.4.17.2–4 (3).

Distribution: 505, 532, 533, 534, 537, 546, 550 (Vari, 2007; RMCA fish collection; Daget, Gosse, 1984; Schmidt *et al.*, 2021:309).

Remarks: Geographic variation and biogeography discussed by Schmidt *et al.*, 2021.

Distichodus petersii Pfeffer, 1896

Distichodus petersii Pfeffer, 1896:41. Type locality: Kingani-Fluss, Deutsch Ostafrika. [“Kingani River, German East Africa”. Tanzania]. Syntypes: BMNH 1908.1.27.3 (1), ZMH H473, ZMB 13677 (4).

Distichodus albini Steindachner, 1914b:537. Type locality: Deutsch-Ostafrika. [Steindachner (1916) provided a more elaborate description of the species, including details on the type locality: “Ulanga-Fluss bei Ifakara, Deutsch-Ostafrika” (Ulanga River near Ifakara, German East Africa = Tanzania)]. Holotype: NMW 68682.

Distribution: 564 (Daget, Gosse, 1984).

Distichodus polli Abwe, Snoeks, Chocha Manda, Vreven, 2019

Distichodus polli Abwe, Snoeks, Chocha Manda, Vreven, 2019:86, figs. 5, 6a. Type locality: Democratic Republic of the Congo: Kasai-Oriental Province, Kasai basin: Bushimaie River, Lula, approximately 7°20' S 23°08' E. Holotype: RMCA 153493.

Distribution: 545, 546 (Abwe *et al.*, 2019).

Distichodus rostratus Günther, 1864

Distichodus rostratus Günther, 1864:360. Type locality: Lower Nile River and West Africa. Syntypes: BMNH uncat. (stuffed, apparently lost) West Africa, BMNH 1861.9.9.25 (1) Lower Nile.

Distichodus martini Steindachner, 1870:549 [17], Pl. 3 (figs. 2–2a). Type locality: Dagana und Podor, Senegal. Syntypes: NMW 68683 (9), 77251 (6).

Distribution: 505, 506, 507, 508, 509, 514, 515, 516, 517, 518, 520, 521, 522, 523

(Gosse *et al.*, 2003; Vari, 2007; Boulenger, 1907c).

***Distichodus rufigiensis* Norman, 1922**

Distichodus rufigiensis Norman, 1922:686. Type locality: Mpanganye, Rufigi River, Tanganyika Territory. [Tanzania]. Syntypes: BMNH 1922.4.18.15–17 (3).

Distribution: 564 (Daget, Gosse, 1984).

***Distichodus schenga* Peters, 1852**

Distichodus schenga Peters, 1852:276. Type locality: Mossambique. [Daget, Gosse (1984) specify the type locality as “Tette, Zambezi River,” Mozambique]. Syntypes: ZMB 3565 (now 3).

Distribution: 558, 561, 576 (Skelton, 2001).

***Distichodus sexfasciatus* Boulenger, 1897**

Distichodus sexfasciatus Boulenger, 1897b:425. Type locality: Stanley Falls, upper Congo. [Democratic Republic of the Congo]. Holotype: BMNH 1897.9.30.16.

Distichodus tanganyicae Worthington, Ricardo, 1937:1083, fig. 2. Type locality: Lake Tanganyika. [The lack of details on the type locality is explained in the original description, stating that “it is extremely unfortunate, however, that Christy’s note-books have been mislaid, so that there are practically no data as the where, when, or how the fish were caught”]. Holotype: BMNH 1936.6.15.411.

Distribution: 534, 535, 536, 537, 539, 540, 541, 542, 545, 546, 547, 548, 549, 550 (RMCA fish collection; Boulenger, 1909a; Poll, 1939; Poll, 1953; Daget, Stauch, 1963; Poll, 1967; Gosse, 1968; Poll, 1976; Roberts, Stewart, 1976; Banister, Bailey, 1979; Vivien, 1991; Monsembula Iyaba, Stiassny, 2013; Kisekelwa *et al.*, 2020).

***Distichodus teugelsi* Mamonekene, Vreven, 2008**

Distichodus teugelsi Mamonekene, Vreven, 2008:99, fig. 1. Type locality: Republic of Congo: Congo River basin: Léfini River, 3km upstream of confluence with the Louna River, Réserve Naturelle Lésio-Louna, 3°00’S, 15°30’E. Holotype: RMCA 2004-46-P-0005.

Distribution: 534, 537 (Mamonekene, Vreven, 2008).

DUNDOCHARAX Poll, 1967

***Dundocharax* Poll, 1967:129.** Type species: *Dundocharax bidentatus* Poll, 1967. Type by original designation. Gender: Masculine.

***Dundocharax bidentatus* Poll, 1967**

Dundocharax bidentatus Poll, 1967:129, fig. 54. Type locality: Riv. Lucoge, Angola. Holotype: MD 6500.

Distribution: 546 (Poll, 1967; Daget, Gosse, 1984).

EUGNATHICHTHYS Boulenger, 1898

***Eugnathichthys* Boulenger, 1898b:25.** Type species: *Eugnathichthys eetveldii* Boulenger, 1898. Type by original designation. Gender: Masculine.

***Eugnathichthys eetveldii* Boulenger, 1898**

Eugnathichthys eetveldii Boulenger, 1898b:26, Pl. 12. Type locality: Léopoldville,

Boma, Nouvelle-Anvers et Upoto, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1898.11.17.8–9 (2) Leopoldville; RMCA 26 (1) Boma, 121 (1) Leopoldville, 148 (1) Upoto.

Eugnathichthys intermedius Pappenheim, in Pappenheim, Boulenger, 1914:234, Pl. 4 (fig. 5). Type locality: Aruwimi bei Basoko, Congo. [Democratic Republic of the Congo]. Holotype: ZMB 19043.

Distribution: 534, 535, 536, 537, 538, 539, 540, 545, 546, 548, 549, 550 (RMCA fish collection; AMNH fish collection; Boulenger, 1898b; Poll, 1939; Daget, Stauch, 1963; Gosse, 1968; Poll, 1976; Banister, Bailey, 1979; Stiassny *et al.*, 2013; Nichols, Griscom, 1917).

***Eugnathichthys macroterolepis* Boulenger, 1899**

Eugnathichthys macroterolepis Boulenger, 1899b:75, Pl. 34 (fig. 1). Type locality: Chiloango. [The BMNH online collection database specifies the type locality as the “Loange River, Belgian Congo”. The Loange River is a tributary of the Chiloango in Democratic Republic of the Congo]. Holotype: BMNH 1899.6.28.16.

Distribution: 532, 534, 535, 536, 537, 538, 539, 540, 541, 545, 546, 548, 549, 550 (RMCA fish collection; Boulenger, 1909a; Poll, 1976; Matthes, 1964b; David, Poll, 1937; Nichols, Griscom, 1917; Daget, Stauch, 1963; Gosse, 1968; Vivien, 1991; Vari, 2007; Stiassny *et al.*, 2013; Kisekelwa *et al.*, 2020).

***Eugnathichthys virgatus* Stiassny, Denton, Monsembula Iyaba, 2013**

Eugnathichthys virgatus Stiassny, Denton, Monsembula Iyaba, 2013:483, figs. 3–5A. Type locality: Democratic Republic of Congo, Equateur Province, Luilaka River at confluence of small stream flowing out of Salonga National Park, 2.6713°S, 21.71452°E. Holotype: AMNH 241648.

Distribution: 534, 537 (Stiassny *et al.*, 2013).

ICHTHYBORUS Günther, 1864

***Ichthyborus* Günther, 1864:362.** Type species: *Ichthyborus microlepis* Günther, 1864. Type by subsequent designation by Jordan (1919b). Gender: Masculine.

***Psalidostoma* Kner, 1864:99.** Type species: *Psalidostoma caudimaculatum* Kner, 1864. Type by monotypy. Gender: Neuter. Additional comments: Preoccupied by *Psalidostoma* Minding, 1832 in fishes, replaced by *Onouphrios* Whitley, 1951a.

***Neoborus* Boulenger, 1899b:78.** Type species: *Neoborus ornatus* Boulenger, 1899. Type by monotypy. Gender: Masculine. Additional comments: Preoccupied by *Neoborus* Distant, 1884 in Hemiptera, replaced by *Phagoborus* Myers, 1924b.

***Phagoborus* Myers, 1924b:397.** Type species: *Neoborus ornatus* Boulenger, 1899. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Neoborus* Boulenger, 1899 preoccupied by *Neoborus* Distant, 1884 in Hemiptera.

***Gavialocharax* Pellegrin, 1927b:390.** Type species: *Gavialocharax monodi* Pellegrin, 1927. Type by monotypy. Gender: Masculine.

***Ra* Whitley, 1931:334.** Type species: *Ichthyborus microlepis* Günther, 1864. Type by being a replacement name. Gender: Feminine. Additional comments: Unneeded replacement for *Ichthyborus* Günther, 1864, not preoccupied (Daget, Gosse,

1984:197).

Onouphrios Whitley, 1951a:68. Type species: *Psalidostoma caudimaculatum* Kner, 1865. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Psalidostoma* Kner, 1864 preoccupied by *Psalidostoma* Minding, 1832 in fishes.

Ichthyoborus besse (Joannis, 1835)

Characinus besse Joannis, 1835:no page number, Pl. 10. Type locality: Nil, Egypte [Nile, Egypt]. Syntypes: MNHN A-9721 (2, poor condition).

Ichthyoborus microlepis Günther, 1864:363. Type locality: Chartoum, Upper Nile. [Sudan]. Syntypes: BMNH 1863.3.9.22–23 (2).

Psalidostoma caudimaculatum Kner, 1864:100, Pl. Type locality: Weissen Nil. [White Nile River]. Holotype: lost.

Ichthyoborus besse congolensis Giltay, 1930:395, figs. 2–3. Type locality: Nyonga (Haut-Luapula, Congo Belge). [Democratic Republic of the Congo]. Holotype: RMCA 20555.

Distribution: 505, 520, 522, 523, 524, 540 (Boulenger, 1907c; Gosse *et al.*, 2003; Decru *et al.*, 2017).

Ichthyoborus monodi (Pellegrin, 1927)

Gavialocharax monodi Pellegrin, 1927b:391. Type locality: Yabassi, Cameroun. [Cameroon]. Syntypes: MNHN 1926-0289 to 0291 (1, 1, 1).

Distribution: 506, 517, 518 (Gosse *et al.*, 2003; Vari, 2007).

Ichthyoborus ornatus (Boulenger, 1899)

Neoborus ornatus Boulenger, 1899b:78, Pl. 34 (fig. 4). Type locality: Bikoro (lac Tumba) et Kutu (lac Léopold II), Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.9.26.85 (1) Kutu, RMCA 712 to 715 (1, 1, 1, 1).

Distribution: 534, 535, 537, 538, 540, 546, 547, 548 (RMCA fish collection; CUMV fish collection; Boulenger, 1899b; Pellegrin, 1928b; David, Poll, 1937; Poll, 1959; Daget, Stauch, 1963; Gosse, 1968; Decru *et al.*, 2017).

Remarks: *Ichthyoborus taeniatus* Vaillant in Rivière, 1886 is an unavailable name.

Ichthyoborus quadrilineatus (Pellegrin, 1904)

Neoborus quadrilineatus Pellegrin, 1904a:219. Type locality: Casamance, à la hauteur de Kolibantan, Guinée portugaise. [Guinea-Bissau]. Holotype: MNHN 1904-0054.

Distribution: 509, 511 (Gosse *et al.*, 2003).

MESOBORUS Pellegrin, 1900

Mesoborus Pellegrin, 1900a:178. Type species: *Mesoborus crocodilus* Pellegrin, 1900. Type by monotypy. Gender: Masculine.

Champsoborus Boulenger, 1909d:187. Type species: *Champsoborus pellegrini* Boulenger, 1909. Type by monotypy. Gender: Masculine.

Mesoborus crocodilus Pellegrin, 1900

Mesoborus crocodilus Pellegrin, 1900a:179. Type locality: Diélé sur l'Alima, Congo français. [Republic of the Congo]. Holotype: MNHN 1886-0377.

Champsoborus pellegrini Boulenger, 1909d:187. Type locality: Bumba River at Assobam, South Cameroon; Ubanghi River. [No information is provided on the exact origin of the Ubanghi River specimen in the original description, but the RMCA fish collection specifies that it comes from “Banzyville, river Ubangi, Etat Indépendent du Congo”. Democratic Republic of the Congo]. Syntypes: BMNH 1909.7.9.47–48 (2), RMCA 1301 (1).

Distribution: 534, 535, 536, 537, 539, 540, 541, 546, 548 (RMCA fish collection; Vivien, 1991; Monsembula Iyaba, Stiassny, 2013; Kisekelwa *et al.*, 2020).

MICROSTOMATICHTHYOBORUS Nichols, Griscom, 1917

Microstomatichthyoborus Nichols, Griscom, 1917:685. Type species: *Microstomatichthyoborus bashforddeani* Nichols, Griscom, 1917. Type by monotypy. Gender: Masculine.

Tristichodus Boulenger, 1920b:19. Type species: *Tristichodus christyi* Boulenger, 1920. Type by monotypy. Gender: Masculine.

***Microstomatichthyoborus bashforddeani* Nichols, Griscom, 1917**

Microstomatichthyoborus bashforddeani Nichols, Griscom, 1917:685, fig. 6. Type locality: Poko, Belgian Congo. [Democratic Republic of the Congo]. Holotype: AMNH 6329.

Tristichodus christyi Boulenger, 1920b:20, fig. 8. Type locality: Poko, Congo belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.141 (1), RMCA 7160 (1).

Distribution: 534, 535, 536, 537, 540, 546 (RMCA fish collection; CUMV fish collection; Monsembula Iyaba, Stiassny, 2013).

***Microstomatichthyoborus katangae* David, Poll, 1937**

Microstomatichthyoborus katangae David, Poll, 1937:212, fig. 10. Type locality: Nionga, Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 23159. [In the original description, a total of 213 specimens are cited: 20 (“including the type”) from Nionga, 171 (“paratypes”) from Nionga, 18 from Kabelwe (agrees with RMCA 27054–27069 (16) and 27822–27823 (2)) and 5 from Kabalo (agrees with RMCA 23211–2315). Following the ICZN, 1999: Art. 73.1, the use of “the type” is a holotype designation. In addition, the use of “paratypes” for the other type specimens is an additional argument to believe that the authors wanted to designate a holotype. A closer look at the specimens in the RMCA collection revealed that RMCA 23159–168 (10 specimens from Nyonga, labelled as syntypes in the RMCA database) contained a tube with a single specimen, with a note saying “type (expl. figure).” Although this specimen is smaller than the 54mm given below the figure in the original description, as are all specimens in this lot, its coloration pattern matches the photograph, and it is to be treated as the holotype. 189 remaining paratype specimens from Nyonga were counted (which is lower than the expected number of specimens based on the collection numbers), including the remaining “syntypes” from RMCA 23159–168 (9), another lot labelled as “syntypes” (RMCA 23169–178;10) and 20 other lots, while the original publication gives 190. All these Nyonga specimens

are to be treated as paratypes].
Distribution: 540, 545 (RMCA fish collection; David, Poll, 1937).

MONOSTICHODUS Vaillant, 1886

Monostichodus Vaillant, in Rivière, 1886:17. Type species: *Monostichodus elongatus* Vaillant, 1886. Type by monotypy. Gender: Masculine.

Hemistichodus Pellegrin, 1900b:352. Type species: *Hemistichodus vaillanti* Pellegrin, 1900. Type by monotypy. Gender: Masculine.

Remarks: Taxonomic status of *Monostichodus* and *Hemistichodus* is discussed by Musschoot, Snoeks, 2016.

Monostichodus elongatus Vaillant, 1886

Monostichodus elongatus Vaillant, in Rivière, 1886:17. Type locality: Not specified. [Type locality not specified, but all fishes in the original description originated from either the Ogôoué River (Franceville or Adoumas) or the Congo River basin (Mokaka on the Sangha River, Alima River, Nganchou or Brazzaville). No types known.

Hemistichodus vaillanti Pellegrin, 1900b:352. Type locality: Adouma (Ogôoué), Congo français. [Ogôoué River at Adouma, Gabon]. Holotype: MNHN 1886-0376.

Distribution: 532 (Vari, 2007).

Remarks: Taxonomic status is discussed by Musschoot, Snoeks (2016).

Monostichodus lootensi (Poll, Daget, 1968)

Hemistichodus lootensi Poll, Daget, 1968:1060. Type locality: Nkombo, Coquilharville, Congo central. [Democratic Republic of the Congo]. Holotype: RMCA 78571.

Distribution: 537, 538, 546, 548 (RMCA fish collection; Poll, Daget, 1968; Stiassny *et al.*, 2021a).

Monostichodus mesmaekersi (Poll, 1959)

Hemistichodus mesmaekersi Poll, 1959:85, Pl. 16 (fig. 2A). Type locality: Riv. noire, chenal du Stanley Pool, Congo Belge. [Democratic Republic of the Congo]. Holotype: RMCA 118973.

Distribution: 534, 537, 538, 540, 546 (RMCA fish collection; CUMV fish collection; Poll, 1959; Decru *et al.*, 2017; Stiassny *et al.*, 2021a).

NANNAETHIOPS Günther, 1872

Nannaethiops Günther, 1872a:669. Type species: *Nannaethiops unitaeniatus* Günther, 1872. Type by monotypy. Gender: Masculine.

Nannaethiops bleheri Géry, Zarske, 2003

Nannaethiops bleheri Géry, Zarske, 2003:39, figs. 1–2. Type locality: Tata Lake in einem Abfluss des Baro River (abfließend in den Sawba River) nahe Gési, westlich von Aganga, Gambela district, südwestliches Äthiopien, stromgebiet des oberen Weissen Nil nahe der Grenze zum Sudan. [Ethiopia]. Holotype: MTD F 24823.

Distribution: 522 (Géry, Zarske, 2003).

***Nannaethiops unitaeniatus* Günther, 1872**

Nannaethiops unitaeniatus Günther, 1872a:670, Pl. 65 (fig. C). Type locality: Gaboon [Gabon]. Lectotype: BMNH 1872.1.27.8. [Designated by Poll, Gosse (1963a)]. Distribution: 505, 506, 518, 520, 532, 533, 534, 550 (Poll, Gosse, 1963a; Gosse *et al.*, 2003; Vari, 2007; RMCA fish collection).

NANNOCHARAX Günther, 1867

***Nannocharax* Günther, 1867:112.** Type species: *Nannocharax fasciatus* Günther, 1867. Type by monotypy. Gender: Masculine.

***Hemigrammocharax* Pellegrin, 1923:115 (footnote).** Type species: *Nannocharax ocellicauda* Boulenger, 1907. Type by monotypy. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Nannocharax*.

***Microdistichodus* Pellegrin, 1926:161.** Type species: *Microdistichodus uniozellatus* Pellegrin, 1926. Type by monotypy. Gender: Masculine.

***Thrissocharax* Myers, 1926d:174.** Type species: *Nannocharax ocellicauda* Boulenger, 1907. Type by original designation. Gender: Masculine.

***Hemigrammonannocharax* Holly, 1930:198, 233.** Type species: *Nannocharax ocellicauda* Boulenger, 1907. Type by original designation. Gender: Masculine.

***Distichodina* Fowler, 1935:260.** Type species: *Distichodus stigmaturus* Fowler, 1935. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Distichodus*.

***Lepinannocharax* Fowler, 1936:271.** Type species: *Nannocharax pteron* Fowler, 1936. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Nannocharax*.

***Nannocharax altus* Pellegrin, 1930**

Nannocharax altus Pellegrin, 1930:203. Type locality: Kouilou, Afrique équatoriale française. [Based on the introductory part of the original description, the species was probably collected in the upper Kouilou-Niari basin (including the rivers Louessé, Loula, Lali and Bouenza) in Republic of Congo (= Congo-Brazzaville)]. Syntypes: MNHN 1929-0242 (17, now 16); RMCA 20646 (1); ?MSNM 2018 (1), USNM 92963 (1).

Distribution: 532 (Vari, 2007).

***Nannocharax angolensis* (Poll, 1967)**

Hemigrammocharax angolensis Poll, 1967:121, fig. 51. Type locality: Poste de Cuílo, Xá-Ua, riv. Luíta, 8°02'S, 19°25'E, Angola. Holotype: MD 6222.

Distribution: 546 (RMCA fish collection; Poll, 1967).

***Nannocharax ansorgii* Boulenger, 1911**

Nannocharax ansorgii Boulenger, 1911a:374. Type locality: Geba and Culufi Rivers, Portuguese Guinea. [Guinea-Bissau]. Syntypes: BMNH 1912.4.1.78–82 (5), 1912.4.1.83–87 (5); ?MCZ 31505 (1); RMCA 7095 (1); USNM 92960 (1); ZMB 18445 (6) Culufi River. [Although Fricke *et al.* (2022) mentioned that USNM 92960 (labelled as cotype in the USNM online collection database) was formerly a specimen registered under BMNH 1912.4.11.373–382, the latter lot (or the remaining specimens from this lot) could not be traced in the Natural History

Museum in London (J. Maclaine, pers. comm.)).

Hemigrammocharax polli Roman, 1966:81, Pl. 6 (fig. 12). Type locality: Le Kou, affluent de la Volta Noire, à 30 km au Nord de Bobo-Dioulasso, République de Haute Volta. [Burkina Faso]. Holotype: RMCA 141464.

Distribution: 505, 507, 508, 509, 511, 514, 515, 516, 520, 535 (Gosse *et al.*, 2003; RMCA fish collection).

Nannocharax brevis Boulenger, 1902

Nannocharax brevis Boulenger, 1902c:27, Pl. 8 (fig. 2). Type locality: L'Ubangi à Banzyville, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1901.12.26.21 (1), RMCA 1282 (1), 1282A (1).

Distribution: 535, 536, 537, 539, 540, 545, 546, 549 (RMCA fish collection; Boulenger, 1909a; David, Poll, 1937; Depasse, 1956; Lambert, 1961; Gosse, 1968; Gosse, 1963; Poll, 1976; Mbimbi Mayi Munene *et al.*, 2021).

Nannocharax dageti Jerep, Vari, Vreven, 2014

Nannocharax dageti Jerep, Vari, Vreven, 2014:362, figs. 1–2. Type locality: Kando, 10° 48' S 26° 13' E, Democratic Republic of the Congo. Holotype: RMCA 88846.

Distribution: 544, 545, 546, 555, 569 (Jerep *et al.*, 2014; Bragança *et al.*, 2020).

Nannocharax elongatus Boulenger, 1900

Nannocharax elongatus Boulenger, 1900b:131, Pl. 48 (fig. 3). Type locality: Haut-Congo, entre Nouvelle-Anvers et Stanley Falls, État indépendant du Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1900.12.13.26–27 (2), RMCA 263 to 268 (1,1,1,1,1,1).

Distribution: 535, 536, 537, 539, 540, 545, 546 (RMCA fish collection; Depasse, 1956; Boulenger, 1909a; Boulenger, 1920b; Pellegrin, 1928b; David, Poll, 1937; Gosse, 1963; Gosse, 1968; Monsembula Iyaba, Stiassny, 2013; Katemo Manda *et al.*, 2021).

Nannocharax fasciatus Günther, 1867

Nannocharax fasciatus Günther, 1867:112 [4], Pl. 3 (fig. A). Type locality: Gaboon. Holotype: BMNH 1867.5.3.35.

Distribution: 505, 506, 507, 508, 509, 511, 512, 514, 515, 516, 517, 518, 520, 534 (Daget, 1978; Vari, 2007; Gosse *et al.*, 2003; RMCA fish collection).

Nannocharax fasciolaris Nichols, Boulton, 1927

Nannocharax fasciolaris Nichols, Boulton, 1927:3, fig. 1. Type locality: Capelongo, Angola. Holotype: AMNH 8683.

Distribution: 555 (Daget, Gosse, 1984).

Nannocharax gobioides Roman, 1966

Nannocharax gobioides Roman, 1966:78, Pl. 5 (figs. 9–10). Type locality: Volta Noire, à 47 km au Nord de Bobo-Dioulasso, Haute Volta. [Burkina Faso]. Holotype: RMCA 141442.

Distribution: 516 (Roman, 1966).

Remarks: *Nannocharax gobioides* is treated as a synonym of *Nannocharax fasciatus* in Gosse, Coenen (1990), who refer to Coenen (1990: unpublished manuscript) for the synonymy, and in Lévêque *et al.* (1991), who refer to presumably the same publication from Coenen as “Coenen (in prep.)”. This synonymy is also given in Gosse *et al.* (2003), without the reference to Coenen (1990: unpublished manuscript), but this seems merely a repetition of the data in Gosse, Coenen

(1990). As Coenen (1990) refers to a non-published draft manuscript (Erik Coenen, pers. comm.), which is presumably the same as Coenen (in prep.), any taxonomical change referring to this publication seems unsubstantiated.

Nannocharax gracilis Poll, 1939

Nannocharax gracilis Poll, 1939:30, fig. 14. Type locality: Léopoldville, Congo Belge. [Democratic Republic of the Congo]. Syntypes: RMCA 39708 (1), 39866–76 (11), 39877–919 (43), 43979 (1).

Distribution: 535, 540, 546, 548 (Poll, 1939; Poll, 1959; Lambert, 1961; Gosse, 1963).

Nannocharax hadros Katemo Manda, Snoeks, Chocha Manda, Vreven, 2021

Nannocharax hadros Katemo Manda, Snoeks, Chocha Manda, Vreven, 2021:319, fig. 1. Type locality: Democratic Republic of the Congo: Upemba National Park, Kalule Nord River, bridge on the road Lubudi–Luena, 9°41'36"S 25°50'52"E, 790 m a.s.l. Holotype: RMCA 2016–025–P–0004.

Distribution: 545 (Katemo Manda *et al.*, 2021).

Nannocharax hastatus Jerep, Vari, 2014

Nannocharax hastatus Jerep, Vari, 2014:44, fig. 1. Type locality: Republic of the Congo, Cuvette-Ouest, Likouala River drainage, small canal around island in Lékoli River, Odzala National Park, 0°37'14"N, 14°55'5.9"E. Holotype: CUMV 89072.

Distribution: 534, 535, 538, 548 (Jerep, Vari, 2014).

Nannocharax hollyi Fowler, 1936

Nannocharax hollyi Fowler, 1936:271, fig. 21. Type locality: Fort Sibut, Ubangi-Shari. [Central African Republic]. Holotype: ANSP 65558.

Distribution: 535 (Fowler, 1936; Daget, Gosse, 1984).

Nannocharax intermedius Boulenger, 1903

Nannocharax intermedius Boulenger, 1903a:437. Type locality: Kribi River, southern Cameroon. Syntypes: BMNH 1903.7.28.144–147 (4).

Distribution: 505, 533, 534 (Vari, 2007; RMCA fish collection).

Nannocharax latifasciatus Coenen, Teugels, 1989

Nannocharax latifasciatus Coenen, Teugels, 1989:312, fig. 1. Type locality: Affluent of the New Calabar River, 3 km south of Isiokpo (4°57'N, 6°53'E), Nigeria. Holotype: RMCA 88–12–P–1.

Distribution: 506, 518 (Gosse *et al.*, 2003; Vari, 2007).

Nannocharax lineomaculatus Blache, Miton, 1960

Nannocharax lineomaculatus Blache, Miton, 1960:105. Type locality: Gamsaye (Logone Inf.), Chaoué (Bas Chari), Logone Birni (Logone Inf.), Fort-Lamy et Zymado (Logone Inf.). [Gamsaye (lower Logone River) and Fort-Lamy are in Republic of Chad, while Chaoué (= Chawe, on the lower Chari River), Logone-Birni and Zymado (both lower Logone River) seem to be in Cameroon, on or near the border with Chad]. Syntypes: MNHN 1959–0230 (6); CEPFL 716–723 (8), CEPFL 1369–81 (13). [In the original description the MNHN specimens are cited as types and the CEPFL specimens as paratypes. They are all to be treated as syntypes (See ICZN, 1999: Art. 72.1 and 73.2)].

Distribution: 505, 507, 508, 520 (Gosse *et al.*, 2003).

Nannocharax lineostriatus (Poll, 1967)

Hemigrammocharax lineostriatus Poll, 1967:123, fig. 52. Type locality: Alto Cuílo,

mare des rives du Cuílo, Angola. Holotype: MD 5342.

Distribution: 546 (Poll, 1967. Skelton, 2019 also identified specimens from 551 and 555 as *Nannocharax lineostriatus*, but Bragança *et al.*, 2020 use *Nannocharax cf. lineostriatus* for specimens from these areas.).

Nannocharax luapulae Boulenger, 1915

Nannocharax luapulae Boulenger, 1915:164. Type locality: Rivière Luapula, à Kasenga. [Democratic Republic of the Congo]. Holotype: RMCA 12125.

Distribution: 540, 544, 545 (Boulenger, 1915; David, Poll, 1937; Poll, 1976).

Nannocharax machadoi (Poll, 1967)

Hemigrammocharax machadoi Poll, 1967:125, fig. 53. Type locality: Riv. Longa, afflt. Luena, village Nharicumbi, Angola. Holotype: MD 5579.

Distribution: 555, 556, 557, 558, 561, 569 (Skelton, 2001).

Nannocharax macropterus Pellegrin, 1926

Nannocharax macropterus Pellegrin, 1926:163. Type locality: Mongende, Luebo (Kasai), Kamaiembi (Kasai) and Tschikapa (Kasai), Congo belge. [Democratic Republic of the Congo]. Syntypes: MNHN 1925-0313 to 0315 (4); RMCA 19698 (2), 19703 (1), 19715 (1), 19616-17 (2). [(1) In the original description a total of 38 type specimens are mentioned, including 31 from Tschikapa. Pellegrin (1928b) described this species as new again with the same data as in Pellegrin (1926), but mentioned only 3 specimens from Tshikapa; presumably the count of 31 type specimens from Tshikapa in Pellegrin (1926) was a typographic error, so that the actual number of type specimens is 10. However, counting the available syntypes in collection, there are 3 from Mongende (3 reported), 4 from Luebo (only 2 reported), 1 from Kamaiembi (2 reported) and 2 from Tshikapa (3 reported). The total number of syntypes in museum collections matches the 10 types mentioned in Pellegrin (1928b), but the number of specimens for the different type localities does not. (2) RMCA 19698 was verified as containing 2 specimens. (3) the MNHN online collection database reports MNHN 1958-0086 as a syntype, but this specimen is however not collected at one of the type localities and thus excluded from the type series].

Distribution: 535, 536, 537, 540, 546, 548, 549, 555, 556, 557, 569 (RMCA fish collection; Pellegrin, 1926; David, Poll, 1937; Poll, 1959; Lambert, 1961; Poll, 1967; Skelton, 2001; Decru *et al.*, 2017).

Nannocharax maculicauda Vari, Géry, 1981

Nannocharax maculicauda Vari, Géry, 1981:1076, figs. 1-4. Type locality: Still side arm of the upper Ivindo River opposite Bourassié, Gabon, at the juncture of the Djouah and Karouga Rivers (approx. 1°20'N, 13°12'E). Holotype: MNHN 1981-0608.

Distribution: 532, 533 (Vari, 2007; Jerrep, Vari, 2014).

Nannocharax micros Fowler, 1936

Nannocharax micros Fowler, 1936:268, fig. 19. Type locality: Thirty kilometers east of Kribi, Cameroons [Cameroon]. Holotype: ANSP 65556.

Distribution: 533 (Daget, Gosse, 1984).

Nannocharax minutus Worthington, 1933

Nannocharax minutus Worthington, 1933:40. Type locality: Swamp near the River Luombo, Luapula system, Northern Rhodesia. [Zambia]. Syntypes: BMNH

1932.12.16.45–54 (10).

Distribution: 544, 555 (RMCA fish collection; Worthington, 1933; Van Steenberge *et al.*, 2014; Bragança *et al.*, 2020).

Nannocharax monardi (Pellegrin, 1936)

Hemigrammocharax monardi Pellegrin, 1936:49. Type locality: Kukulakazé (affluent du Kului) et Vila da Ponte (Cubango), Angola. Syntypes: MNHN 1936-0073 (2, apparently lost).

Distribution: 555 (Pellegrin, 1936).

Nannocharax multifasciatus Boulenger, 1923

Nannocharax multifasciatus Boulenger, 1923:437. Type locality: Sesheke, R. Zambezi, Northern Rhodesia. [Zambia]. Holotype: SAIAB 135308.

Distichodus stigmaturus Fowler, 1935:260, figs. 6–7. Type locality: Chobe River, below rapids, three miles from Kasane. Holotype: SAIAB [formerly RUSI] 30005.

Distribution: 544, 552, 553, 555, 556, 557, 569 (Daget, Gosse, 1984; van der Waal, Skelton, 1994; Skelton, 1994; Skelton, 2001).

Nannocharax niloticus (Joannis, 1835)

Coregonus niloticus Joannis, 1835:no page number, Pl. 7. Type locality: Thèbes. [Egypt]. Holotype: Type lost.

Nannocharax niloticus var. *lateralis* Werner, 1906:1130, Pl. 3 (figs. 11, 11a). Type locality: Bahr-el-Gebel bei Mongalla. [South Sudan]. No types known.

Nannocharax niloticus tchadensis Blache, Miton, 1961:396. Type locality: Logone moyen, zones inondées vers Pouss et Gamsaye; Mayo Kebbi, zones des rapides en amont des Chutes Gauthiot; Logone moyen à Gabri Ngolo. [Middle Logone River, floodplain near Pouss and Gamsaye (border Republic of Chad-Cameroon); Mayo Kebbi, rapids zone upstream of the Gauthiot Falls (Republic of Chad); middle Logone at Gabri Ngolo (Republic of Chad)]. Syntypes: MNHN 1959-0246 (2), 1959-0347 (3), 1959-0248 (orig. 25, now 15), 1988-1111 (10). [(1) The total number of syntypes adds up to a total of 30 specimens, while the original description seems to be based on 36 specimens. (2) the original description mentioned both “types” and paratypes, all to be treated as syntypes (See ICZN, 1999: Art. 72.1 and 73.2)]. Gosse, Coenen (1990) put *N. niloticus tchadensis* in synonymy with both *N. occidentalis* (partim) and *N. lineomaculatus* (partim), for which they refer to Coenen (1990: unpublished manuscript). The partim synonymy with both *N. occidentalis* and *N. lineomaculatus* is also given in Gosse *et al.* (2003), but this seems merely a repetition of the data in Gosse, Coenen (1990). As Coenen (1990) is a non-published draft manuscript (Erik Coenen, pers. comm.), any taxonomical change referring to this publication seems unsubstantiated. *Nannocharax niloticus tchadensis* is considered here to be a synonym of *N. niloticus* based on Daget, Gosse (1984).

Distribution: 522, 523, 524 (Boulenger, 1907c; Lévêque *et al.*, 1991).

Nannocharax occidentalis Daget, 1959

Nannocharax niloticus occidentalis Daget, 1959:669. Type locality: Markala, passe à poissons; Dabola, chutes du Tinkisso; Bourem, mission Augiéras-Draper. [Markala, fish ladder (Mali); Dabola, Tinkisso falls (Guinea); Bourem, Augiéras-Draper mission (Mali)]. Syntypes: MNHN 1954-0010 (3), 1928-0235 (3), 1960-0414 (3, now 2), 1960-0415 (3), 1988-1110 (1). [The MNHN online collection

database reports 3 specimens for MNHN 1960-0414; this is probably an error, as a single specimen was removed and relabelled as MNHN 1988-1110. Counting only 2 specimens for MNHN 1960-0414 brings the total number of syntypes on 12, as reported in the original description]. Replacement for *Nannocharax niloticus gracilis* Daget, 1954 preoccupied by *Nannocharax gracilis* Poll, 1939.

Nannocharax niloticus gracilis Daget, 1954:163, fig. 51. Type locality: Markala, passe à poissons; Dabola, chutes du Tinkisso; Bourem, mission Augiéras-Draper. [Markala, fish ladder (Mali); Dabola, Tinkisso falls (Guinea); Bourem, Augiéras-Draper mission (Mali)]. Syntypes: MNHN 1954-0010 (3), 1928-0235 (3), 1960-0414 (orig. 3, now 2), 1960-0415 (3), 1988-1110 (1). Preoccupied by *Nannocharax gracilis* Poll, 1939, replaced by *Nannocharax niloticus occidentalis* Daget, 1959 (currently valid as *Nannocharax occidentalis* Daget, 1959). Gosse, Coenen (1990) put *N. niloticus gracilis* in synonymy with *N. occidentalis* (partim) and *N. lineomaculatus* (partim), for which they refer to Coenen (1990: unpublished manuscript). This partim synonymy with both *N. occidentalis* and *N. lineomaculatus* is also given in Gosse *et al.* (2003), but this seems merely a repetition of the data in Gosse, Coenen (1990). As Coenen (1990) is a non-published draft manuscript (Erik Coenen, pers. comm.), any taxonomical change referring to this publication seems unsubstantiated. *Nannocharax niloticus gracilis* is considered here to be a synonym of *N. occidentalis* only, following Daget, Gosse (1984) and Levêque *et al.* (1991).

Distribution: 505, 506, 507, 508, 518, 520 (Gosse *et al.*, 2003).

Nannocharax ocellicauda Boulenger, 1907

Nannocharax ocellicauda Boulenger, 1907a:485. Type locality: Ja River, South Cameroon. Syntypes: BMNH 1908.5.30.121-122 (2).

Distribution: 533, 534 (Vari, 2007; Jerep, Vari, 2014).

Nannocharax ogoensis Pellegrin, 1911

Nannocharax ogoensis Pellegrin, 1911:180. Type locality: Franceville (Ogôoué), Congo français. [Gabon]. Holotype: MNHN 1886-0397.

Distribution: 532 (Daget, Gosse, 1984).

Nannocharax parvus Pellegrin, 1906

Nannocharax parvus Pellegrin, 1906c:469. Type locality: Ngomo (Ogôoué), Gabon. Syntypes: BMNH 1907.4.27.2 (1), MNHN 1906-0194 (4).

Nannocharax parvus var. *maculata* Pellegrin, 1924a:285. Type locality: Fleuve Niari, Gabon. Syntypes: MNHN 1924-0049 to 0051 (3).

Distribution: 532, 550 (Vari, 2007; RMCA fish collection; Dunz, Schliewen, 2009; Wamuini Lunkayilakio *et al.*, 2010).

Nannocharax procatopus Boulenger, 1920

Nannocharax procatopus Boulenger, 1920b:20, fig. 9. Type locality: Bosabangi et Poko, Congo Belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1919.9.10.177 (1), 1919.9.10.178 (1); RMCA 7156-57 (2), 7165 (1).

Distribution: 534, 536, 537, 539, 540, 546 (RMCA fish collection; BMNH fish collection; Boulenger, 1920b; Pellegrin, 1928b; Poll, 1967; Decru *et al.*, 2017; Dunz, Schliewen, 2009).

Nannocharax pteron Fowler, 1936

Nannocharax pteron Fowler, 1936:272, fig. 22. Type locality: Fort Sibut, Ubangi-

Shari. [Central African Republic]. Holotype: ANSP 65560.

Distribution: 535, 537 (Fowler, 1936; Daget, Gosse, 1984; Decru *et al.*, 2017).

Nannocharax reidi Vari, Ferraris, 2004

Nannocharax reidi Vari, Ferraris, 2004:552, fig. 1. Type locality: Cameroon, Cross River system, collecting points on southern Munaya River draining northern Korup, on Basep River at junction with Munaya River (5° 49'30"N, 9° 03'30"E). Holotype: USNM 304046.

Distribution: 518 (Vari, 2007).

Nannocharax rubensteini (Jerep, Vari, 2013)

Hemigrammocharax rubensteini Jerep, Vari, 2013:31, figs. 1–3. Type locality: Republic of the Congo, Cuvette-Ouest, Likouala River drainage, Lékoli River at Mboko dock, Odzala National Park, 0° 37'03"N, 14° 54'27"E. Holotype: CUMV 89502.

Distribution: 534 (Jerep, Vari, 2013).

Nannocharax rubrolabiatus Van den Bergh, Teugels, Coenen, Ollevier, 1995

Nannocharax rubrolabiatus Van den Bergh, Teugels, Coenen, Ollevier, 1995:350, figs. 2–3. Type locality: Cameroon, Noun River, affluent of Mbam River, Sanaga basin at the bridge on the road from Bafoussam to Foumbot; 5° 29'N, 10° 31'E. Holotype: RMCA 94-74-P-1.

Distribution: 505 (Vari, 2007).

Nannocharax schoutedeni Poll, 1939

Nannocharax schoutedeni Poll, 1939:29, fig. 13. Type locality: Léopoldville, Congo Belge. [Democratic Republic of the Congo]. Syntypes: (119) RMCA 39705–07 (3), 39920–32 (13), 39933–40029 (98), 43883–86 (4), 44016 (1). [Poll (1939) mentioned 16 types and 101 cotypes which adds up to 117 syntypes. However, the number of syntypes in the RMCA collection is 119 (RMCA 39933–40029 actually contains 98 specimens), all from the type locality and in agreement with the collector and collection date given in the original description].

Distribution: 535, 537, 546, 548 (RMCA fish collection; Gosse, 1963; Gosse, 1968; Dunz, Schlieven, 2009; Monsembula Iyaba, Stiassny, 2013; Stiassny *et al.*, 2021).

Nannocharax seyboldi Schultz, 1942

Nannocharax seyboldi Schultz, 1942:13, Pl. 35 (fig. 1). Type locality: Bellyella, Liberia. Holotype: USNM 118757.

Distribution: 512 (Schultz, 1942; Jerep *et al.*, 2014; Jerep, Vari, 2014).

Remarks: *Nannocharax seyboldi* is treated as a synonym of *Nannocharax fasciatus* in Gosse, Coenen (1990), who refer to Coenen (1990: unpublished manuscript) for the synonymy. This synonymy is also given in Gosse *et al.* (2003), without the reference to Coenen (1990: unpublished manuscript), but this seems merely a repetition of the data in Gosse, Coenen (1990). As Coenen (1990) is a non-published draft manuscript (Erik Coenen, pers. comm.), any taxonomical change referring to this publication seems unsubstantiated. Jerep *et al.* (2014) and Jerep, Vari (2014) included the types of *N. seyboldi* in a list with examined material, but did not mention the taxonomic status of the species.

Nannocharax signifer Moritz, 2010

Nannocharax signifer Moritz, 2010:290, figs. 1–2. Type locality: Benin: Forêt d'Agrimè, about 7 kilometers east of Zogbodome, Hlan River, 7° 03'58"N, 2° 10'56"E. Holotype: BMNH 2009.3.2.1.

Distribution: 517 (Moritz, 2010).

Nannocharax taenia Boulenger, 1902

Nannocharax taenia Boulenger, 1902c:28, Pl. 8 (fig. 3). Type locality: Banzyville, Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1901.12.26.22 (1), RMCA 1283 (1).

Distribution: 534, 535, 536, 537, 540, 546 (RMCA fish collection; Nichols, Griscom, 1917; David, Poll, 1937; Gosse, 1963; Matthes, 1964b; Dunz, Schliewen, 2009; Ibala Zamba *et al.*, 2019).

Nannocharax uniocellatus (Pellegrin, 1926)

Microdistichodus uniocellatus Pellegrin, 1926:162. Type locality: Mongende et Luebo (Kasai), Congo Belge. [Democratic Republic of the Congo]. Syntypes: MNHN 1925-0311 (5), 1925-0312 (1); RMCA 19704-08 (5), 19718-19 (2).

Distribution: 534, 535, 537, 540, 546, 548 (RMCA fish collection; AMNH fish collection; Monsembula Iyaba, Stiassny, 2013; Jerop *et al.*, 2014).

Nannocharax usongo Dunz, Schliewen, 2009

Nannocharax usongo Dunz, Schliewen, 2009:10, figs. 5a-c, 6. Type locality: Cameroon, Cross River at Mamfé, 5° 46'0.00"N, 9° 18'38.00"E Holotype: ZSM 35732.

Distribution: 506, 518 (Dunz, Schliewen, 2009).

Nannocharax wittei (Poll, 1933)

Hemigrammocharax wittei Poll, 1933:122, fig. 8. Type locality: Kando (près de Tenke): Riv. Kando, Congo Belge. [Democratic Republic of the Congo]. Syntypes: RMCA 34903-18 (16), 34919-51 (33), 36247-311 (65).

Distribution: 544, 545, 546, 555 (RMCA fish collection; Poll, 1967).

Nannocharax zebra Dunz, Schliewen, 2009

Nannocharax zebra Dunz, Schliewen, 2009:5, figs. 3a, b, 4. Type locality: Cameroon, Cross River at Mamfé, 5° 46'0.00"N, 9° 18'38.00"E. Holotype: ZSM 35730.

Distribution: 506, 518 (Dunz, Schliewen, 2009).

NEOLEBIAS Steindachner, 1894

Neolebias Steindachner, 1894:78. Type species: *Neolebias unifasciatus* Steindachner, 1894. Type by monotypy. Gender: Masculine.

Rhabdaethiops Fowler, 1936:264. Type species: *Nannaethiops tritaeniatus* Boulenger, 1913. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Nannaethiops*.

Micraethiops Daget, 1965:20. Type species: *Neolebias ansorgii* Boulenger, 1912. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Neolebias*.

Neolebias ansorgii Boulenger, 1912

Neolebias ansorgii Boulenger, 1912b:8, Pl. 17 (fig. 3). Type locality: Marécages près de la Luculla (Congo belge) et de la Luali à Lundo (Mayombé Portugais). [Syntype locality: swamps near the Luculla River (Chiloango River basin in Belgian Congo = Democratic Republic of the Congo) and the Luali River at Lundo (Chiloango River basin in "Portuguese Mayombe", Cabinda Province

- of Angola). Lectotype locality: marshes near riv. Luculla, Mayumbe (Chiloango River basin in Democratic Republic of the Congo)]. Lectotype: BMNH 1912.4.1.276. [Designated by Poll, Gosse (1963)].
- Neolebias landgrafi* Ahl, 1928b:206. Type locality: Kamerun. [Cameroon]. Syntypes: ZMB 31686–87 (2, 5).
- Nannaethiops geisleri* Hoedeman, 1956b:260, fig. Type locality: Congo-Gebiet. [Holotype locality was not specified (“Congo-Gebiet”), while the 3 paratypes are either from near Boma (“Umgebung Boma”) as given in the species description, or from near Leopoldville (“Umgebung von Leopoldville”) as given in the publication’s introduction]. Holotype: ZMA 100053.
- Distribution: 506, 517, 532, 550 (Gosse *et al.*, 2003; Vari, 2007; Poll, Gosse, 1963a).
- Neolebias axelrodi*** Poll, Gosse, 1963
- Neolebias axelrodi* Poll, Gosse, 1963a:31, Pl. 2 (fig. 3). Type locality: Source à environ 30 miles de Lagos le long de la nouvelle route. [Nigeria]. Holotype: BMNH 1970.12.14.200.
- Distribution: 506, 517 (Gosse *et al.*, 2003).
- Neolebias gossei*** (Poll, Lambert, 1964)
- Congocharax gossei* Poll, Lambert, 1964:337, figure. Type locality: Lambaréné-Mouila (PK9), Ogooué, Gabon. Holotype: RMCA 142822.
- Distribution: 532 (Vari, 2007).
- Neolebias gracilis*** Matthes, 1964
- Neolebias gracilis* Matthes, 1964b:69, Pl. 3a. Type locality: Riv. Boteli (région d’Ikela), Congo. [Democratic Republic of the Congo]. Holotype: RMCA 138900.
- Distribution: 537 (Monsembula Iyaba, Stiassny, 2013; Matthes, 1964b).
- Neolebias kerguennae*** Daget, 1980
- Neolebias kerguennae* Daget, 1980:33, fig. 1. Type locality: Ruisseau à 29 km à l’est de Libreville, Gabon. Holotype: MNHN 1980-1299.
- Distribution: 532 (Vari, 2007).
- Neolebias lozii*** Winemiller, Kelso-Winemiller, 1993
- Neolebias lozii* Winemiller, Kelso-Winemiller, 1993:112, fig. 1. Type locality: Kataba Creek, Upper Zambezi drainage, at the Mongu-Senanga highway, Western Province, Zambia, 15°30’30”S, 23°16’0”E. Holotype: USNM 320688.
- Distribution: 556 (Winemiller, Kelso-Winemiller, 1993).
- Neolebias philippeï*** Poll, Gosse, 1963
- Neolebias philippeï* Poll, Gosse, 1963a:30, Pls. 1 (fig. 4), 2 (fig. 2). Type locality: Boende, riv. Tshuapa. [Democratic Republic of the Congo]. Holotype: RMCA 98971.
- Distribution: 537, 540, 546 (Poll, Gosse, 1963a; Daget, Gosse, 1984; Decru *et al.*, 2017; Stiassny *et al.*, 2021a).
- Neolebias powelli*** Teugels, Roberts, 1990
- Neolebias powelli* Teugels, Roberts, 1990:61, figs. 1–4. Type locality: Sombreiro river, Niger delta, at Rumuekpe, Nigeria (4°57’N, 6°40’E). Holotype: RMCA 87-24-P-135.
- Distribution: 506 (Gosse *et al.*, 2003).
- Neolebias spilotaenia*** Boulenger, 1912
- Neolebias spilotaenia* Boulenger, 1912b:9, Pl. 17 (fig. 4 [not 3]). Type locality: Lebuzi

à Kuka Muno (Congo Belge) et Luali à Lundo (Congo Portugais). [Lebuzi River at Kuka Muno (Belgian Congo = Democratic Republic of the Congo) and Luali River at Lundo (Portuguese Congo = Cabinda Province of Angola), both in the Chiloango River basin. Lectotype locality is “Mayumbe Kuka Muno, Lebuzi River”. Democratic Republic of Congo]. Lectotype: BMNH 1912.4.1.282. [Designated by Poll, Gosse (1963a)].

Distribution: 532 (Vari, 2007).

Neolebias trewavasae Poll, Gosse, 1963

Neolebias trewavasae Poll, Gosse, 1963a:27, Pl. 2 (fig. 1). Type locality: Yaekama, étang. [Democratic Republic of the Congo]. Holotype: RMCA 137767.

Distribution: 505, 522, 532, 533, 534, 535, 537, 539, 540, 541, 546 (Sandon, 1950; Poll, Gosse, 1963a; Vari, 2007; Decru *et al.*, 2017; RMCA fish collection).

Neolebias trilineatus Boulenger, 1899

Neolebias trilineatus Boulenger, 1899:114. Type locality: Dolo (Stanley-Pool), Congo. [Democratic Republic of the Congo]. Lectotype: RMCA 729. [Designated by Poll, Gosse (1963a)].

Nannaethiops tritaeniatus Boulenger, 1913:157. Type locality: Dungu, district du Haut-Uélé, Congo belge. [Democratic Republic of the Congo]. Syntypes: BMNH 1912.12.6.2 (1); RMCA 1796–1797 (2), 1815 (1).

Distribution: 534, 535, 536, 537, 540, 542, 546, 548 (RMCA fish collection; AMNH fish collection; Monsembula Iyaba, Stiassny, 2013).

Neolebias unifasciatus Steindachner, 1894

Neolebias unifasciatus Steindachner, 1894:78, Pl. 4 (fig. 3). Type locality: Robertsport, Liberia. Lectotype: RMNH 24926. [Designated by Poll, Gosse (1963)].

Neolebias unitaeniatus Boulenger, 1899c:114 (footnote). Type locality: Robertsport, Liberia. Lectotype: RMNH 24926. Unneeded replacement name for *Neolebias unifasciatus* Steindachner, 1894.

Neolebias univittatus Boulenger, 1899c:114 (footnote). Type locality: Robertsport, Liberia. Lectotype: RMNH 24926. Unneeded replacement name for *Neolebias unifasciatus* Steindachner, 1894.

Nannaethiops angustolinea Nichols, 1923:1, fig. 1. Type locality: Fort Crampel, Gribingui, West Africa, French Equatorial Africa. [Central African Republic]. Holotype: AMNH 8106.

Nannocharax shariensis Fowler, 1949b:248, figs. 24–27. Type locality: Ubangui-Shari, near N'délé, French Equatorial Africa. [Central African Republic]. Holotype: ANSP 71888.

Distribution: 505, 506, 507, 508, 509, 511, 512, 514, 515, 516, 517, 520, 532, 533, 534, 535 (Gosse *et al.*, 2003; Vari, 2007; RMCA fish collection; Vivien, 1991; Daget, Gosse, 1984).

PARADISTICHODUS Pellegrin, 1922

Paradistichodus Pellegrin, 1922:70. Type species: *Paradistichodus elegans* Pellegrin, 1922. Type by original designation. Gender: Masculine.

Paradistichodus dimidiatus (Pellegrin, 1904)

Nannocharax dimidiatus Pellegrin, 1904a:220. Type locality: Casamance, à la hauteur de Kolibantan, Guinée portugaise. [Guinea-Bissau]. Holotype: MNHN 1904-0055.

Distichodus ansorgii Boulenger, 1911a:373. Type locality: Geba and Culufi Rivers, Portuguese Guinea. [Guinea-Bissau]. Syntypes: BMNH 1912.4.1.65–68 (4), 1912.4.1.69–74 (6), 1912.4.1.75–77 (3); CAS 60707 (1); RMCA 7074 (1); ZMB 18444 (6) Culufi River.

Paradistichodus elegans Pellegrin, 1922:72. Type locality: Bossangoa (Ouham). [Central African Republic]. Syntypes: MNHN 1921-0216, MNHN 1921-0217. [two syntypes, both are apparently lost].

Distribution: 505, 506, 507, 508, 509, 511, 516, 520 (Gosse *et al.*, 2003).

PARAPHAGO Boulenger, 1899

Paraphago Boulenger, 1899:76. Type species: *Paraphago rostratus* Boulenger, 1899. Type by monotypy. Gender: Masculine.

Paraphago rostratus Boulenger, 1899

Paraphago rostratus Boulenger, 1899b:76, Pl. 34 (fig. 2). Type locality: Kutu (Lac Léopold II), Congo. [Democratic Republic of the Congo]. Syntypes: BMNH 1899.9.26.81 (1), RMCA 716–717 (2).

Distribution: 547 (Boulenger, 1909a; Daget, Gosse, 1984).

PHAGO Günther, 1865

Phago Günther, 1865b:209. Type species: *Phago loricatus* Günther, 1865. Type by monotypy. Gender: Masculine.

Phago boulengeri Schilthuis, 1891

Phago boulengeri Schilthuis, 1891:90. Type locality: Not specified. [Collections studied in this publication originated from “Boma, lower Congo, and for the greater part from Kinshassa, Stanley Pool, upper Congo, near Brazzaville” in Democratic Republic of the Congo. Apparently only the species not collected at Kinshassa have their locality specifically stated, so that the holotype of *P. boulengeri* probably also originated from the Stanley Pool in Kinshassa]. Holotype: BMNH 1899.9.6.12.

Distribution: 534, 535, 536, 537, 538, 540, 545, 546, 547, 548 (RMCA fish collection; AMNH fish collection; Nichols, Griscom, 1917; Poll, 1933; David, Poll, 1937; Poll, 1959; Gosse, 1963; Matthes, 1964b; Gosse, 1968).

Phago intermedius Boulenger, 1899

Phago intermedius Boulenger, 1899b:77, Pl. 34 (fig. 3). Type locality: Léopoldville, Etat du Congo. [Democratic Republic of the Congo]. Holotype: RMCA 123.

Phago fulica Pellegrin, 1922:69. Type locality: Bangui (Oubanghi). [Central African Republic]. Holotype: MNHN 1921-0374.

Distribution: 534, 535, 536, 537, 540, 545, 548 (RMCA fish collection; AMNH fish collection; Nichols, Griscom, 1917; Poll, 1933; David, Poll, 1937; Poll, 1959;

Gosse, 1963; Matthes, 1964b; Gosse, 1968).

***Phago loricatus* Günther, 1865**

Phago loricatus Günther, 1865b:210 [2], Pl. 5. Type locality: Western coast of Africa. [The original collection register of the BMNH (now NHMUK), of which a (digital) copy is provided in the online database of the BMNH fish collection, records “W. Africa” as origin of the specimen. This was recorded as “Niger” for both “locality” and “water body” in the respective fields in the online database. Until more information on or a source for this change is available, the original type locality should be used]. Holotype: BMNH 1865.1.20.15.

Phago maculatus Ahl, 1922:23, figure. Type locality: Unterer Niger. Holotype: ZMB 20558.

Distribution: 505, 506, 517, 518 (Gosse *et al.*, 2003; Vari, 2007).

XENOCHARAX Günther, 1867

***Xenocharax* Günther, 1867:114.** Type species: *Xenocharax spilurus* Günther, 1867. Type by monotypy. Gender: Masculine.

***Xenocharax crassus* Pellegrin, 1900**

Xenocharax crassus Pellegrin, 1900:100. Type locality: Leketi (Alima moyen), Congo français. [Republic of the Congo]. Holotype: MNHN 1886-0384.

Distribution: 534, 535, 537, 538, 546, 547, 548 (Ibala Zamba *et al.*, 2016; RMCA fish collection; Monsembula Iyaba, Stiassny, 2016).

Remarks: revalidated by Ibala Zamba *et al.* (2016).

***Xenocharax spilurus* Günther, 1867**

Xenocharax spilurus Günther, 1867:114 [6], Pl. 3 (fig. B). Type locality: Gaboon [Gabon]. Lectotype: BMNH 1867.5.3.33. [Designated by Ibala Zamba *et al.* (2016)].

Distribution: 532, 533 (Vari, 2007; RMCA fish collection).

ERYTHRINIDAE Valenciennes, 1847 GMT Mattox, OT Oyakawa, K Mathubara

Erythrichthini Bonaparte, 1835 (correct spelling Erythrichthini):16. Type genus: *Erythrichthys* Bonaparte, 1831. Additional comments: Bonaparte (1835:16) misspelled Erythrichthini. Bonaparte (1837:7); corrected the stem to Erythrichthini. Senior objective synonym of Erythrinidae Valenciennes, 1847, but not the name in prevailing recent practice.

Érythroïdes Valenciennes in Cuvier, Valenciennes, 1847:480. Type genus: *Erythrinus* Scopoli, 1777. Additional comments: Name was latinized to Erythrinidae by Richardson (1856:250). Junior objective synonym of Erythrichthini Bonaparte, 1835.

Hopliidi Fowler, 1958:9. Type genus: *Hoplias* Gill, 1903.

ERYTHRINUS Scopoli, 1777

Erythrinus Scopoli, 1777:449. Type species: *Erythrinus salmoneus* Gronovius, 1854 [= *Erythrinus erythrinus* (Bloch, Schneider, 1801)]. Type by subsequent designation: Eigenmann, Eigenmann, 1889a:105 (But see Fricke *et al.*, 2022, for a possible designation by Bory de Saint-Vicent, 1824:293 as *Esox malabaricus* Bloch, 1794). Gender: Masculine. Additional comments: *Erythrinus* was first published by Gronovius (1763:114) in a work that was subsequently placed on the Official Index of Rejected and Invalid Generic Names in Zoology, ICZN: Opinion 261, 1954, which makes the name unavailable from that publication.

Erythrichthys Bonaparte, 1831:182. Type species: *Synodus erythrinus* Bloch, Schneider, 1801. Type by monotypy. Gender: Masculine. Additional comments: Appeared as *Erythrichthys* Nob (*Erythrinus* Gronovius), therefore an unneeded replacement name for *Erythrinus* and treated here as an objective synonym.

Hetererythrinus Günther, 1864:283, 284. Type species: *Erythrinus salmoneus* Gronovius in Gray, 1854. Type by subsequent designation of Jordan, 1919b:332. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Erythrinus*.

Erythrinus erythrinus (Bloch, Schneider, 1801)

Synodus erythrinus Bloch, Schneider, 1801:397, 398. Type locality: Surinamum [Suriname]. No types known.

Erythrinus salmoneus Gronovius, in Gray, 1854:170. Type locality: Surinami [Suriname]. Holotype: BMNH 1853.11.12.59. [(dry skin, right side)].

Erythrinus brevicauda Günther, 1864:285. Type locality: Not given. Syntypes: BMNH 1863.11.15.92–93 (2).

Erythrinus longipinnis Günther, 1864:285. Type locality: Essequibo River. [Guyana]. Holotype: BMNH 1864.1.21.81.

Distribution: 306, 307, 308, 309, 310, 311, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 326, 327, 328, 331, 332, 342, 343, 344 (Oyakawa, 2003; Toledo-Piza, Oyakawa, Mattox, pers. obs.).

HOPLERYTHRINUS Gill, 1896

Hoplerythrinus Gill, 1896b:208. Type species: *Erythrinus unitaeniatus* Agassiz, 1829. Type by monotypy. Gender: Masculine.

Ophiocephalops Fowler, 1906:293. Type species: *Erythrinus unitaeniatus* Agassiz, 1829. Type by original designation. Gender: Masculine.

Pseuderythrinus Hoedeman, 1950b:80. Type species: *Pseuderythrinus rosapinnis* Hoedeman, 1950. Type by original designation. Gender: Masculine.

Hoplerythrinus cinereus (Gill, 1858)

Erythrinus cinereus Gill, 1858:413 [53]. Type locality: Western portion of the Island of Trinidad, W. I. Holotype: USNM 5882.

Distribution: 304 (Gill, 1858; Vari, Howe, 1991; Rodríguez-Olarte *et al.*, 2009).

Hoplerythrinus gronovii (Valenciennes, 1846)

Erythrinus gronovii Valenciennes, in Cuvier, Valenciennes, 1846:500. Type locality: Cayenne. [French Guiana]. Syntypes: MNHN 0099 (3).

Distribution: 311 (Cuvier, Valenciennes, 1846).

Hoplerythrinus unitaeniatus (Agassiz, 1829)

Erythrinus unitaeniatus Agassiz, in Spix, Agassiz, 1829:42, Pl. 19. Type locality: Flumine S. Francisci. [Brazil]. No types known. [Although no types are known, Spix, Agassiz (1829) mentioned one specimen deposited in Museo Monacensi (Zoologische Staatssammlung München)].

Erythrinus vittatus Valenciennes, in Cuvier, Valenciennes, 1846:499, Pl. 585 [not 551]. Type locality: Brésil [Brazil], Cayenne [French Guiana], Surinam [Suriname]. Syntypes: MNHN A.9758 (1), MNHN A.9759 (2), MNHN A.9760 (2), MNHN A.9761 (1).

Pseuderythrinus rosapinnis Hoedeman, 1950b:82, figure. Type locality: Near Paramaribo, Dutch Guiana. [Suriname]. Holotype: ZMA 100310. [Holotype number incorrectly listed as ZMA 104279 in de Jongh, 1991:57, and Oyakawa, 2003:239. Holotype number correctly listed by Nijssen, van Tuijl, Isbrücker, 1982:24; Nijssen, van Tuijl, Isbrücker, 1993:218].

Distribution: 306, 307, 308, 309, 310, 311, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 332, 334, 342, 343, 344, 345, 352 (Oyakawa, 2003; Toledo-Piza, Oyakawa, Mattox, pers. obs.).

Remarks: Author of species name is Agassiz according to Kottelat (1988); followed by Oyakawa, 2003.

Species inquirenda (Hoplerythrinus)

Erythrinus salvus Agassiz, in Spix, Agassiz, 1829:41. Type locality: Flumine S. Francisci. [Brazil]. No types known.

Remarks: Listed as synonym of *Hoplerythrinus unitaeniatus* (Taphorn, 1992:443; Oyakawa, 2003). Information from the literature renders species identification impossible. In addition to the absence of types, the specimen used to describe the species was recovered from the stomach content of *Erythrinus macrodon* with the head intact but without fin rays and scales (Spix, Agassiz, 1829:41).

Erythrinus kessleri Steindachner, 1877:596 [38]. Type locality: Bahia. [Brazil]. Syntypes: MCZ 21480 (4), 21495 (2); NMW 68545 (3); USNM 120407 (1). Taxonomic status uncertain, but syntypes are *Hoplerythrinus* species and not *Erythrinus*.

HOPLIAS Gill, 1903

Macrodon Müller, 1843:316. Type species: *Erythrinus trahira* Agassiz, 1829 [= *Hoplias malabaricus* (Bloch, 1794)]. Type by subsequent designation by Eigenmann, Eigenmann 1889:102. Gender: Masculine. Additional comments: preoccupied by *Macrodon*, Schinz, 1822 in fishes, replaced by *Hoplias* Gill, 1903.

Hoplias Gill, 1903:1016. Type species: *Esox malabaricus* Bloch, 1794. Type by being a replacement name. Gender: Masculine. Additional comments: Replacement for *Macrodon* Müller, 1842, preoccupied by *Macrodon* Schinz, 1822.

Hoplias aimara (Valenciennes, 1846)

Macrodon aimara Valenciennes, in Cuvier, Valenciennes, 1846:523, Pl. 586 [not 552]. Type locality: Cayenne. [French Guiana]. Holotype: MNHN A-9968 (dry mount).

Macrodon malabaricus var. *macrophthalma* Pellegrin, 1907a:26. Type locality: Cayenne. [French Guiana]. Holotype: MNHN A-9770 (dry mount).

Distribution: 308, 309, 310, 311, 315, 316, 320, 321, 322, 323, 324 (Mattox *et al.*, 2006; Oyakawa *et al.*, 2013).

Hoplias argentinensis Rosso, González-Castro, Bogan, Cardoso, Mabragaña, Delpiani, Díaz de Astarloa, 2018

Hoplias argentinensis Rosso, González-Castro, Bogan, Cardoso, Mabragaña, Delpiani, Díaz de Astarloa, 2018:242, figs. 5, 7b, 8b. Type locality: Argentina, Santa Fe Province, Rio Paraná basin, Río Coronda, 31°50.1'S, 60°51.5'W. Holotype: UNMDP 4417.

Distribution: 332, 345 (Rosso *et al.*, 2018).

Hoplias auri Guimarães, Rosso, González-Castro, Souza, Díaz de Astarloa, Rodrigues, 2021

Hoplias auri Guimarães, Rosso, González-Castro, Souza, Díaz de Astarloa, Rodrigues, 2021:428. Type locality: Brazil, Pará State, Tapajós basin: Crepori River, Itaituba region, Creporizão District: Lago do Sr. Pena, 6°50' 1.30"S, 56°50'50.90"W. Holotype: UFOPA - I 1353.

Distribution: 320 (Guimarães *et al.*, 2021).

Hoplias australis Oyakawa, Mattox, 2009

Hoplias australis Oyakawa, Mattox, 2009:119, fig. 2. Type locality: Rio das Antas, rio do Ouro drainage, on Formosa do Sul-Irati road, Formosa do Sul, Uruguay basin, Santa Catarina, Brazil. Holotype: MCP 40175.

Distribution: 332, 333 (Oyakawa, Mattox, 2009).

Hoplias brasiliensis (Agassiz, 1829)

Erythrinus brasiliensis Agassiz, in Spix, Agassiz, 1829:45, Pl. 20. Type locality: Peruaguaçu. [Brazil]. Neotype: MZUSP 45483. [Primary types presumed missing. Neotype designated by Oyakawa, Mattox (2009)].

Distribution: 328 (Oyakawa, Mattox, 2009).

Remarks: Author of species name is Agassiz according to Kottelat (1988); followed by Oyakawa, 2003; author as Spix in Oyakawa, Mattox (2009).

Hoplias curupira Oyakawa, Mattox, 2009

Hoplias curupira Oyakawa, Mattox, 2009:125, fig. 5. Type locality: Rio Itacaiúnas, Caldeirão, Serra dos Carajás, Tocantins basin, Pará, Brazil. Holotype: MZUSP 45582.

Distribution: 308, 310, 311, 314, 315, 320, 322, 323, 324 (Oyakawa, Mattox, 2009).

Hoplias intermedius (Günther, 1864)

Macrodon intermedius Günther, 1864:282. Type locality: Cipo River. [Brazil]. Lectotype: BMNH 1861.5.16.6 (stuffed left half skin); [Designated by Oyakawa, Mattox (2009)].

Distribution: 327, 328, 344 (Oyakawa, Mattox, 2009).

Hoplias lacerdae Miranda-Ribeiro, 1908

Hoplias lacerdae Miranda-Ribeiro, 1908:[3], figure. Type locality: Iporanga. [Brazil].
Holotype: MNRJ 211. [(dry mount)].

Distribution: 330, 332, 333 (Oyakawa, Mattox, 2009).

Hoplias malabaricus (Bloch, 1794)

Esox malabaricus Bloch, 1794:149, Pl. 392. Type locality: Tranquebar. [According to Paepke (1999), the type locality was erroneously designated as Tranquebar by Bloch, and the type specimens probably originated from Suriname]. Lectotype: ZMB 3515. [Designated by Paepke (1999)].

Erythrinus macrodon Agassiz, in Spix, Agassiz, 1829:43, Pl. 18. Type locality: Lacu Almada, Prov. Bahiensis et in fluvio Sancti Francisci. [Brazil]. Holotype: MHNN 0773. [type listed by Kottelat, 1988]. Author of species name is Agassiz according to Kottelat (1988); followed by Oyakawa, 2003.

Erythrinus trahira Agassiz, in Spix, Agassiz, 1829:44, Pl. 18. Type locality: Lacu Almada, Prov. Bahiensis et in fluvio Sancti Francisci. [Brazil]. No types known. Name appears in the plate of *Erythrinus macrodon* and therefore is a junior synonym of the latter. Article 11.6 of ICZN, 1999 states that names first proposed as synonyms of others are not available (*e.g.*, Koerber, 2021) unless it was treated as available before 1961. Müller, 1842; 1843; Müller, Troschel, 1845 and Günther, 1864 used it as a valid name, making it available. Author of species name is Agassiz according to Kottelat (1988); followed by Oyakawa, 2003.

Macrodon tareira Valenciennes, in Cuvier, Valenciennes, 1846:508. Type locality: Bahia. [Brazil]. Syntypes: MNHN 0000-4409 (1), 4421 (3), A-9745 (3 or 1), A-9746 (1), A-9747 (1), A-9748 (1).

Macrodon ferox Gill, 1858:411 [51]. Type locality: Western portion of the Island of Trinidad, W. I. Syntypes: USNM 1112 (1), 6033 (2).

Esox tararira Larrañaga, 1923:378, 388. Type locality: Uruguay. No types known. Synonymy proposed by Devincenzi (1925).

Distribution: 205, 206, 207, 208, 209, 210, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 342, 343, 344, 345, 346, 347, 352 (Oyakawa, 2003; Oyakawa, Mattox, pers. obs.).

Hoplias mbigua Azpelicueta, Benítez, Aichino, Mendez, 2015

Hoplias mbigua Azpelicueta, Benítez, Aichino, Mendez, 2015:73, figs. 1, 2, 4A, 5, 6A, 7A. Type locality: río Paraná in Nemesio Parma, Provincia de Misiones, Argentina. Holotype: CI-FML 6763.

Distribution: 345 (Azpelicueta *et al.*, 2015).

Hoplias microlepis (Günther, 1864)

Macrodon microlepis Günther, 1864:282. Type locality: Western Ecuador. Chagres River. [Lectotype locality: Chagres River, Panama]. Lectotype: BMNH 1864.1.26.221. [Designated by Mattox *et al.* (2014)].

Distribution: 204, 206, 208, 209, 210, 301 (Mattox *et al.*, 2014).

Hoplias misionera Rosso, Mabragaña, González-Castro, Delpiani, Avigliano, Schenone, Díaz de Astarloa, 2016

Hoplias misionera Rosso, Mabragaña, González-Castro, Delpiani, Avigliano, Schenone, Díaz de Astarloa, 2016:200, figs. 1, 2C, 3A, B, C (bottoms). Type locality: Argentine: Misiones. Stream tributary of the Acaraguá River

(27° 27'44.63"S, 54° 57'5.58"W), Uruguay River Basin. Villa Bonita, Municipio de Campo Ramón, Oberá. [Argentina]. Holotype: UNMDP 574.

Distribution: 342, 344, 345 (Rosso *et al.*, 2016).

Hoplias teres (Valenciennes, 1846)

Macrodon teres Valenciennes, in Cuvier, Valenciennes, 1846:521. Type locality: Lagune de Maracaibo. [Venezuela]. Syntypes: MNHN 0000-4377 (2).

Distribution: 303, 304 (Cuvier, Valenciennes, 1846; Rodríguez-Olarte *et al.*, 2009).

Species inquirendae (Hoplias)

Erythrinus guavina Humboldt, in Humboldt, Valenciennes, 1821:179, Pl. 58 (fig. 1).

Type locality: Lac de Valencia ou Tacarigua. [Venezuela]. No types known.

Remarks: Oyakawa (2003) listed as species *inquirenda* in Erythrinidae. Reexamination of original description allows placement as species *inquirenda* in *Hoplias*.

Erythrinus microcephalus Agassiz, in Spix, Agassiz, 1829:44. Type locality: Fluvio Sancti Francisci. [Brazil]. No types known. [Although no types are known, Spix, Agassiz (1829) mentioned one specimen deposited in Museo Monacensi (Zoologische Staatssammlung München)].

Remarks: Oyakawa, Mattox (2009:132) briefly discussed the status of *Erythrinus microcephalus* Agassiz and considered that the name could not be precisely assigned to any form within *Hoplias* since its description is vague and types are missing. Author of species name is Agassiz according to Kottelat (1988); followed by Oyakawa, 2003.

Erythrinus palustris Valenciennes, in Cuvier, Valenciennes, 1846:502. Type locality: Not given. No types known.

Remarks: Oyakawa (2003) listed as species *inquirenda* in Erythrinidae. Reexamination of original description allows to place it as species *inquirenda* in *Hoplias*.

Macrodon auritus Valenciennes, in Cuvier, Valenciennes, 1846:519. Type locality: Montevideo. [Uruguay]. No types known. [Not located at the MNHN (Oyakawa, Mattox, 2009)].

Remarks: Treated as species *inquirenda* in *Hoplias* in Oyakawa (2003:240) and considered as a *nomen dubium* by Oyakawa, Mattox, 2009.

Macrodon patana Valenciennes, in Cuvier, Valenciennes, 1846:522. Type locality: Cayenne. [French Guiana]. Holotype: whereabouts unknown.

Remarks: Although Oyakawa (2003) tentatively listed this species as valid, there are no types known and the description is vague.

Synodus tareira Bloch, Schneider, 1801:398, Pl. 79. Type locality: Fluviiis Brasiliae. [Brazil]. No types known.

Remarks: Oyakawa (2003) listed as synonym of *Hoplias malabaricus*. Reexamination of original description allows placement as species *inquirenda* in *Hoplias*.

***Species inquirenda* (Erythrinidae)**

Synodus palustris Bloch, Schneider, 1801:398. Type locality: Lacubus et paludibus non item in fluminibus Brasiliae. [Brazil]. No types known.

Remarks: Oyakawa (2003) listed as synonym of *Hoplias malabaricus*. Reexamination of original description allows to place it as species *inquirenda* in Erythrinidae.

GASTEROPELECIDAE Bleeker, 1859

CR Moreira

Gasteropelecini Bleeker, 1859:XXXII. Type genus: *Gasteropelecus* Scopoli, 1777.

Carnegiellidi Fowler, 1958:9. Type genus: *Carnegiella* Eigenmann, 1909.

Thoracocharacini Weitzman, 1960b:220. Type genus: *Thoracocharax* Fowler, 1907.

CARNEGIELLA Eigenmann, 1909

Carnegiella Eigenmann, 1909a:13. Type species: *Gasteropelecus strigatus* Günther, 1864. Type by original designation. Gender: Feminine.

***Carnegiella marthae* Myers, 1927**

Carnegiella marthae Myers, 1927:119. Type locality: Venezuela: Caño de Quiribana, near Caicara. [Caño de Quiribana, Río Orinoco basin, Caicara, Bolívar state, Venezuela]. Holotype: CAS 20082.

Distribution: 307, 308, 314, 315, 316, 318, 319, 321 (Lasso *et al.*, 2009; Pires, Ohara, 2013; Vari *et al.*, 2009; Weitzman, 1960b; Weitzman, Palmer, 2003).

***Carnegiella myersi* Fernández-Yépez, 1950**

Carnegiella myersi Fernández-Yépez, 1950a:175, fig. 3. Type locality: Creek near Yurimaguas, Peru. [Río Huallaga basin, Loreto, Peru]. Holotype: CAS-SU 16120.

Distribution: 307, 314, 316, 318, 319 (Weitzman, Palmer, 2003; Álvarez-León *et al.*, 2013; Jégu *et al.*, 2012; Lauzanne, Loubens, 1985; Ortega *et al.*, 2012).

***Carnegiella schereri* Fernández-Yépez, 1950**

Carnegiella schereri Fernández-Yépez, 1950a:178, fig.5. Type locality: Caño del Chanco at Pebas, Peru. [Amazon river basin]. Holotype: SU 36491.

Distribution: 316 (Weitzman, Palmer, 2003; Álvarez-León *et al.*, 2013; Ortega *et al.*, 2012).

***Carnegiella strigata* (Günther, 1864)**

Gasteropelecus strigatus Günther, 1864:343. Type locality: Not given. [Hoedeman (1952a) stated that the type material of the species was from the Amazonas, and he erroneously restricted the type locality to Manaus based on the locality of the specimen figured by Fraser-Brunner (1950). However, the specimen illustrated by the latter author is not part of the type series]. Lectotype: BMNH 1969.10.29.1-2 (32-mm spec.). [Designated by Fraser-Brunner (1950)].

Gasteropelecus fasciatus Garman, 1890c:9. Type locality: Lake Saraca [...] Cudajas [...] Manacapouru, and Tabatinga. [Lectotype locality: Tabatinga, Amazonas,

- Brazil, Rio Solimões]. Lectotype: MCZ 91320. [Designated by Fernández-Yépez (1950a)].
- Carnegiella strigata vesca* Fraser-Brunner, 1950:966, fig. 3 A. Type locality: Mazaruni River, British Guiana. [Mazaruni River, Essequibo river basin, Guyana]. Holotype: BMNH 1934.9.12.289.
- Carnegiella strigata marowini* Hoedeman, 1952a:14. Type locality: Marowini River, Surinam. [Suriname; may refer to Marouini river, Lawa river basin, or to Maroni (= Marowijne) River]. Holotype: RMNH 19341.
- Carnegiella strigata surinamensis* Hoedeman, 1952a:15. Type locality: Surinam, swamp about 50 km. South of Paramaribo. [Suriname river basin, Suriname]. Holotype: ZMA 100316a.
- Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 318, 319, 320, 321, 322, 323 (Weitzman, 1960b; Weitzman, Palmer, 2003; Lasso *et al.*, 2009; Vari *et al.*, 2009; Maldonado *et al.*, 2008; Jégu *et al.*, 2012; Ortega *et al.*, 2012; Raiol *et al.*, 2012; Pires, Ohara, 2013; Dagosta, de Pinna, 2019).

GASTEROPELECUS Scopoli, 1777

- Gasteropelecus* Scopoli, 1777:458. Type species: *Clupea sternicla* Linnaeus, 1758. Type by subsequent monotypy. Gender: Masculine. Additional comments: Appeared first without species. First inclusion of species probably by Bloch (1785:272).
- Gastropolecys* Agassiz, 1846:160. Type species: *Clupea sternicla* Linnaeus, 1758. Type by being a replacement name. Gender: Masculine.
- Pterodiscus* Eigenmann, 1909a:12. Type species: *Pterodiscus levis* Eigenmann, 1909. Type by original designation. Gender: Masculine.

***Gasteropelecus levis* (Eigenmann, 1909)**

- Pterodiscus levis* Eigenmann, 1909a:12. Type locality: Para. [Brazil]. Holotype: USNM 34454.
- Distribution: 316, 323 (Fraser-Brunner, 1950; Weitzman, 1960b; Weitzman, Palmer, 2003).

***Gasteropelecus maculatus* Steindachner, 1879**

- Gasteropelecus maculatus* Steindachner, 1879b:151. Type locality: Mamoni. [Río Mamoni, Río Bayano basin, Chepo, Panama]. Syntypes: (several) NMW.
- Thoracocharax brevis* Eigenmann, 1912b:25. Type locality: Ráspadura. [Upper Río Atrato, Choco, Colombia]. Holotype: FMNH 56055.
- Thoracocharax magdalenae* Eigenmann, 1912b:25. Type locality: Girardot. [Río Magdalena, Girardot, Cundinamarca, Colombia]. Holotype: FMNH 56056.
- Distribution: 301, 302, 303, 309 (Weitzman, Palmer, 2003; Lasso *et al.*, 2004; Álvarez-León *et al.*, 2013).

***Gasteropelecus sternicla* (Linnaeus, 1758)**

- Clupea sternicla* Linnaeus, 1758:319. Type locality: Surinami [Suriname]. Syntypes: BMNH 1853.11.12.211 [Gronovius coll.] (1, skin).
- Salmo gasteropelecus* Pallas, 1770:50, Plate III, fig. 4. Type locality: Surinamo. [Suriname]. No types known.
- Gasteropelecus argenteus* Lacepède, 1803:476. Type locality: les eaux de Surinam et

dans celles de la Caroline. [Caroline refers to Carolina in the U.S.A. which is outside of the natural range of Characiformes]. No types known.

Gasteropelecus coronatus Allen, in Eigenmann, Allen, 1942:267, Pl. 14 (fig. 4). Type locality: Brook, Rio Itaya, near Iquitos. [Peru]. Holotype: CAS 20671.

Gasteropelecus sternicla marowini Hoedeman, 1952a:10. Type locality: Surinam, Marowini river system. [Suriname; may refer to Marouini river, Lawa river basin, or to Maroni (= Marowijne) River]. Holotype: RMNH 19339.

Gasteropelecus sternicla morae Hoedeman, 1952a:11. Type locality: Mora Passage. [Guyana]. Holotype: ZMA 100341.

Distribution: 307, 308, 309, 310, 311; 316, 318, 319, 321, 323, 343 (Lauzanne, Loubens, 1985; Weitzman, Palmer, 2003; Lasso *et al.*, 2004; Vari *et al.*, 2009; Jégu *et al.*, 2012; Ortega *et al.*, 2012; Álvarez-León *et al.*, 2013; Pires, Ohara, 2013; Polaz *et al.*, 2014).

THORACOCHARAX Fowler, 1907

Thoracocharax Fowler, 1907:452. Type species: *Gasteropelecus stellatus* Kner, 1858. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Gasteropelecus*.

Thoracocharax securis (De Filippi, 1853)

Gasteropelecus securis De Filippi, 1853:165 [2]. Type locality: Rio Napo. No types known.

Gasteropelecus pectorosus Garman, 1890c:9. Type locality: Cudajas, Lago Alexo, Obidos, Tabatinga and Manacapouru. [Rio Amazonas and Solimões, Brazil]. Syntypes: MCZ 21281 (1), 21283 (orig. 7, now 4) + 21284 (3), 21294 (1), 21297 (2), 21302 (1); USNM 120412 (2).

Distribution: 316 (Weitzman, 1960b; Weitzman, Palmer, 2003).

Thoracocharax stellatus (Kner, 1858)

Gasteropelecus stellatus Kner, 1858b:163 [3]. Type locality: Not given. [Kner (1860) provided a more detailed description with type locality as rio Cuiabá, Brazil.]. Syntypes: NMW 77722 (3).

Distribution: 307, 309, 314, 316, 319, 321, 324, 343, 345 (Weitzman, 1960b; Lauzanne, Loubens, 1985; Weitzman, Palmer, 2003; Lasso *et al.*, 2004; Liotta, 2005; Lucinda *et al.*, 2007; Silva *et al.*, 2009; Vari *et al.*, 2009; Albert *et al.*, 2011; Jégu *et al.*, 2012; Ortega *et al.*, 2012; Álvarez-León *et al.*, 2013; Pires, Ohara, 2013).

HEMIODONTIDAE Bleeker, 1859

F Langeani

Anodontostomini Bleeker, 1859:XXXII. Type genus: *Anodus* Cuvier, 1829. Additional comments: Bleeker (1859:XXXII) misspelled Anodontostomini. Eigenmann (1909b:253) corrected the stem to Anod-. Fowler (1950:274) emended the stem to Anodont-.

Hemiodontini Bleeker, 1859:XXXII. Type genus: *Hemiodus* Müller, 1842. Additional comments: Eigenmann (1910:423) changed the stem to Hemiod-. Hemiodontidae

is the name in prevailing recent practice for the family.
 Bivibranchiinae Eigenmann, 1912a:253. Type genus: *Bivibranchia* Eigenmann, 1912.
 Elopomorphinae Eigenmann 1917:39. Type genus: *Elopomorphus* Gill, 1878.
 Micromischodontinae Roberts, 1971:3. Type genus: *Micromischodus* Roberts, 1971.
 Additional comments: Name appeared first in the abstract on page 1, but the new name is formally defined on page 3.

ANODUS Cuvier, 1829

Anodus Agassiz, in Spix, Agassiz, 1829:57, 60. Type species: *Anodus elongatus* Agassiz, 1829. Type by subsequent designation by Eigenmann, Eigenmann, 1889c:410–411. Gender: Masculine. Additional comments: See Kottelat, 1988:77–78.

Anodus Cuvier, 1829:309, footnote. Type species: *Anodus elongatus* Agassiz, 1829. Type by subsequent designation by Kottelat, 1988:78. Gender: Masculine.

Elopomorphus Gill, 1878:167. Type species: *Elopomorphus jordanii* Gill, 1878. Type by original designation. Gender: Masculine.

Eigenmannina Fowler, 1906:307. Type species: *Anodus melanopogon* Cope, 1878. Type by original designation. Gender: Feminine.

Remarks: *Anodus* Cuvier, 1829 and *Anodus* Agassiz, 1829 are objective synonyms, since both were based on the same type species, *Anodus elongatus* Agassiz, 1829. *Anodus* Cuvier, 1829, published on 31 March 1829, has priority over *Anodus* Agassiz, 1829, which appeared after 22 May 1829 (Kottelat, 1988:77). Cuvier's earlier description is very brief (Cuvier, 1829:309, footnote) but sufficient to make *Anodus* Cuvier, 1829 available. Kottelat (1988:78) referred to Eigenmann, Eigenmann (1889c:410–411) as the authors who designated *Anodus elongatus* Agassiz, 1829 as type species of *Anodus* Cuvier, 1829; however, this is incorrect (Fricke *et al.* 2022), since Eigenmann, Eigenmann (1889c:410–411) were explicit when referring to the type species of *Anodus* Agassiz, and not to *Anodus* Cuvier. Consequently, the author designating *Anodus elongatus* Agassiz, 1829 as the type species of *Anodus* Cuvier, 1829 turns out to be Kottelat (1988:78).

Anodus elongatus Agassiz, 1829

Anodus elongatus Agassiz, in Spix, Agassiz, 1829:61, Pl. 40. Type locality: Brasíliea fluviis [Brazil]. No types known.

Anodus melanopogon Cope, 1878:682. Type locality: Peruvian Amazon. [label in lectotype jar reads “Peruvian Amazon”; Cope (1878:673) noted that most of Orton's 1873 specimens (which includes the lectotype) came from Nauta, Peru]. Lectotype: ANSP 21227. [Designated by Fowler (1906:308). Treated as holotype by Böhlke (1984:66)].

Anodus steatops Cope, 1878:683. Type locality: Peruvian Amazon at Pebas. [Peru]. Lectotype: ANSP 21498. [Designated by Fowler (1906:306). Treated as holotype by Böhlke (1984:66)].

Elopomorphus jordanii Gill, 1878:168. Type locality: Mamore River in Bolivia. Holotype: USNM 5926.

Distribution: 316, 317 (Langeani, 2003; Langeani, 2013).

Anodus orinocensis (Steindachner, 1887)

Elopomorphus orinocensis Steindachner, 1887:231. Type locality: Orinoco. Lectotype: NMW 72619-1. [Designated by Langeani (2003)].

Distribution: 308, 309, 316, 323, 324 (Langeani, 2003; Langeani, 2013).

ARGONECTES Böhlke, Myers, 1956

Argonectes Böhlke, Myers, 1956:2. Type species: *Argonectes scapularis* Böhlke, Myers, 1956. Type by original designation. Gender: Masculine.

Argonectes longiceps (Kner, 1858)

Hemiodus longiceps Kner, 1858a:77. Type locality: Rio Içanno. [Rio Içana, Brazil]. Lectotype: NMW 68643 (1). [Designated by Langeani (2003)].

Argonectes scapularis Böhlke, Myers, 1956:2, fig. 1. Type locality: mouth of the Caño Massaua, Río Orinoco, Venezuela. Holotype: SU 46382.

Distribution: 307, 308, 311, 314, 315, 316, 320 (Langeani, 2003; Langeani, 2013).

Argonectes robertsi Langeani, 1999

Argonectes robertsi Langeani, 1999b:173, figs. 1a. Type locality: Lago Dumbá Grande, Barra do Garças, Rio Araguaia, GO. [Goiás, Brazil]. Holotype: MZUSP 21528.

Distribution: 320, 322, 323, 324 (Langeani, 2003).

BIVIBRANCHIA Eigenmann, 1912

Bivibranchia Eigenmann, 1912a:253, 258. Type species: *Bivibranchia protractila* Eigenmann, 1912. Type by monotypy. Gender: Feminine.

Atomaster Eigenmann, Myers, 1927:565. Type species: *Atomaster velox* Eigenmann, Myers, 1927. Type by monotypy. Gender: Masculine.

Bivibranchia bimaculata Vari, 1985

Bivibranchia bimaculata Vari, 1985:517, fig. 3. Type locality: Rocky pool in the center of Corantijn River at “Camp Hydro”, Nickerie District, Suriname, (approx. 3° 42'N, 57° 58'W). Holotype: USNM 225974.

Distribution: 310, 311 (Langeani, 2003).

Bivibranchia fowleri (Steindachner, 1908)

Hemiodus fowleri Steindachner, 1908c:131. Type locality: Stromgebiete des Amazonas. Holotype: NMW 68600.

Bivibranchia protractila Eigenmann, 1912a:259, Pl. 33 (figs. 1–5). Type locality: Bartica sand-bank. [Guyana]. Holotype: FMNH 53576.

Distribution: 307, 308, 309, 310, 314, 316, (Langeani, 2003; Langeani, 2013).

Bivibranchia notata Vari, Goulding, 1985

Bivibranchia notata Vari, Goulding, 1985:1055, fig. 1. Type locality: Beach at Alter do Chão, Pará, Brazil (approx. 2° 31'S, 54° 57'W). Holotype: MZUSP 28657.

Distribution: 316, 324, 320 (Langeani, 2003; Nogueira *et al.*, 2021:6–15).

Bivibranchia simulata Géry, Planquette, Le Bail, 1991

Bivibranchia simulata Géry, Planquette, Le Bail, 1991:23, Pl. 7 (fig. 1). Type locality: Panacupelu, Saut Motouci, Wilapaleya. [French Guiana]. Holotype: MNHN

1981.0545. [In the original description of the species, the authors indicated that the holotype measured 138.0 mm SL, was collected by F. d'Aubenton on 26 September 1976 and deposited at the MNHN. Analysis of specimens at the MNHN in July 1993 revealed a jar (MNHN 1981.0545) containing three specimens, one (135 mm SL) considered the holotype and two others considered paratypes (113.9, 120.6 mm SL). Also see Géry *et al.* (1991:23)].

Bivibranchia simulata surinamensis Géry, Planquette, Le Bail, 1991:27. Type locality: Affluent de droite de la Nickerie Rivier, env. ½ heure au-dessous de Blanche-Marie Falls. [Suriname]. Holotype: RMNH.

Distribution: 311 (Langeani, 2003; Géry *et al.*, 1991).

Bivibranchia velox (Eigenmann, Myers, 1927)

Atomaster velox Eigenmann, Myers, 1927:565. Type locality: Ribeirao, Porto Nacional, Tocantins, Goyas. [Brazil]. Holotype: CAS 39430.

Distribution: 323, 324 (Langeani, 2003).

HEMIODUS Müller, 1842

Hemiodus Müller, 1842:206. Type species: *Hemiodus crenidens* Müller, 1842. Type by monotypy. Gender: Masculine.

Anisitsia Eigenmann, Kennedy, in Eigenmann, 1903:144. Type species: *Anodus notatus* Jardine in Schomburgk, 1841. Type by original designation. Gender: Feminine.

Hemiodopsis Fowler, 1906:318. Type species: *Hemiodus microlepis* Kner, 1858. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Hemiodus*.

Pterohemiodus Fowler, 1940a:257. Type species: *Pterohemiodus atranalis* Fowler, 1940. Type by original designation. Gender: Masculine.

Hemiodus amazonum (Humboldt, 1821)

Curimatus amazonum Humboldt, in Humboldt, Valenciennes, 1821:165, Pl. 45 (fig. 2). Type locality: Rio Marañon, Cachoeira de Rentena, província de Saint-Jean de Bracamoros, Peru. No types known.

Prochilodus humboldti Valenciennes, in Cuvier, Valenciennes, 1850:90. Type locality: haut Maragnon, vis-à-vis de la cataracte de Rentema, dans la province de Saint Jean de Bracamoros. [Peru]. No types known.

Distribution: 316, 317 (Langeani, 2003).

Hemiodus argenteus Pellegrin, 1909

Hemiodus argenteus Pellegrin, 1909c:344 [3]. Type locality: Orénoque. [Venezuela]. Lectotype: MNHN 1887-0770. [Designated by Langeani (2003)].

Distribution: 306, 308, 309, 310, 311, 314, 316, 320, 323 (Langeani, 2003).

Hemiodus ocellatus (Vari, 1982)

Hemiodopsis ocellata Vari, 1982c:188, fig. 1. Type locality: main stream of Dalbana Creek, approximately 150 m upstream of its junction with Kabalebo River, Nickerie District, Surinam (approx. 4°47'N, 57°29'W). Holotype: USNM 221175.

Distribution: 311 (Nogueira *et al.*, 2020).

Hemiodus atranalis (Fowler, 1940)

Pterohemiodus atranalis Fowler, 1940a:258, fig. 57. Type locality: Ucayali River basin, Contamana, Peru. Holotype: ANSP 68671.

Pterohemiodus luelingi Géry, 1962b:332, Pl. 1. Type locality: Quisto Cocha, petit lac en bordure du Rio Itaya, affluent de la rive gauche de l'Amazone péruvienne, à environ 15 km à l'ouest d'Íquitos (Pérou). [Río Itaya, Peru]. Holotype: ZFMK 1226.

Distribution: 310, 314, 316, 317, 324 (Langeani, 2003; Langeani, 2013; Nogueira *et al.*, 2020:341, fig. 1).

Hemiodus bimaculatus Nogueira, Langeani, Netto-Ferreira, 2019

Hemiodus bimaculatus Nogueira, Langeani, Netto-Ferreira, 2019:799, fig. 1. Type locality: Brazil, Mato Grosso, São José do Rio Claro, Rio Claro or Rio Agua Verde, ca. 12 km SE of São José do Rio Claro on road MT-010 towards Diamantino, 13°30'12"S, 56°37'08"W. Holotype: MCP 30410.

Distribution: 320 (Nogueira *et al.*, 2019).

Hemiodus goeldii Steindachner, 1908

Hemiodus goeldii Steindachner, 1908a:61. Type locality: wahrscheinlich aus dem Xingu stammend. [species probably does not occur in the rio Xingu; except the holotype, all specimens examined from that basin are not referable as *H. goeldii*. Instead, specimens from coastal drainages of the state of Amapá, Brazil are clearly assignable to the species (*e.g.*, MZUSP 29683, 31747) (see also Langeani, 2003)]; recently Nogueira *et al.* (2020:340 and fig. 1) referred to the species in the lower Tapajós]. [Brazil]. Holotype: NMW 68642.

Distribution: 316, 323 (Langeani, 2003; Nogueira *et al.*, 2020).

Hemiodus gracilis Günther, 1864

Hemiodus gracilis Günther, 1864:299. Type locality: River Cupai. [most probably rio Cupari, a rio Tapajós tributary, Brazil]. Lectotype: BMNH 1853.3.19.54. [Designated by Langeani (2003)].

Distribution: 308, 314, 316 (Langeani, 2003).

Hemiodus huraulti (Géry, 1964)

Hemiodopsis huraulti Géry, 1964g:69, fig. 2. Type locality: French Guiana, upper part of the Maroni River, as about the Litani falls. Holotype: MHNG 2151.14.

Distribution: 311, 320 (Langeani, 2003; Nogueira *et al.*, 2020:340 and fig. 1).

Hemiodus immaculatus Kner, 1858

Hemiodus immaculatus Kner, 1858a:78. Type locality: Barra do Rio Negro. [Brazil]. Holotype: NMW 68641.

Distribution: 307, 308, 309, 316, 321 (Langeani, 2003; Langeani, 2013).

Hemiodus iratapuru Langeani, Moreira, 2013

Hemiodus iratapuru Langeani, Moreira, 2013:1260, figs. 1–2. Type locality: Brazil, Amapá, município de Laranjal do Jari. Cachoeira de São Raimundo, Rio Iratapuru, left bank tributary of Rio Jari, adjacent to Iratapuru community, above Cachoeira de Santo Antônio; 0°33'59"S, 52°34'40"W. Holotype: MZUSP 101564.

Distribution: 323 (Langeani, Moreira, 2013).

Hemiodus jatuarana Langeani, 2004

Hemiodus jatuarana Langeani, 2004:2, fig. 1. Type locality: Brazil, State of Pará. Rio Trombetas, Oriximiná. Holotype: MZUSP 5408 (not 54083). [The catalog number presented in the original description (MZUSP 54083) is an error].

Distribution: 316 (Langeani, 2004).

Hemiodus langeanii Beltrão, Zuanon, 2012

Hemiodus langeanii Beltrão, Zuanon, 2012:256, figs. 1a, 2. Type locality: Brazil, Pará State, Itaituba, Floresta Nacional do Amana reserve (Flona do Amana), rio Aana, igarapé Porquinho, 05°06'33.0"S, 57°28'25.0"W. Holotype: INPA 31564.

Distribution: 316 (Beltrão, Zuanon, 2012).

Hemiodus microlepis Kner, 1858

Hemiodus microlepis Kner, 1858a:77. Type locality: Rio Guaporé in Matogrosso und Barra do Rio negro. [Lectotype designated by Langeani (2003) is from the rio Guaporé in Mato Grosso State, Brazil]. Lectotype: NMW 79472 (dry). [Designated by Langeani (2003)].

Distribution: 306, 309, 316, 321, 324 (Langeani, 2003; Langeani, 2013).

Hemiodus orthonops Eigenmann, Kennedy, 1903

Hemiodus orthonops Eigenmann, Kennedy, 1903:511. Type locality: Arroyo Trementina. [Paraguay]. Holotype: CAS 61476.

Distribution: 343, 344, 345 (Langeani, 2003; Nogueira *et al.*, 2020:fig. 1).

Hemiodus parnaguae Eigenmann, Henn, 1916

Hemiodus parnaguae Eigenmann, Henn, 1916:87, Pl. 17. Type locality: Lagoa de Parnagua. [Brazil]. Holotype: FMNH 56886.

Hemiodus rodolphi Fowler, 1941b:174, figs. 84–85. Type locality: Rio Parnahyba, Therezina, Piauí. [Brazil]. Holotype: ANSP 69483.

Distribution: 325 (Langeani, 2003).

Hemiodus quadrimaculatus Pellegrin, 1909

Hemiodus quadrimaculatus Pellegrin, 1909c:344 [3]. Type locality: Rivière Camopi (Guyane française). [French Guiana]. Lectotype: MNHN 1901-0394. [Designated by Géry (1964g)].

Distribution: 310, 311, 314, 316, 323 (Langeani, 2003; Nogueira *et al.*, 2020).

Hemiodus semitaeniatus Kner, 1858

Hemiodus semitaeniatus Kner, 1858a:77. Type locality: Rio Guaporé. [Brazil]. Lectotype: MNW 69489:1. [Designated by Langeani (2003)].

Distribution: 308, 310, 314, 316, 319, 323, 343 (Langeani, 2003; Langeani, 2013).

Hemiodus sterni (Géry, 1964)

Hemiodopsis sterni Géry, 1964g:70, fig. 3. Type locality: Mato Grosso, Brazil, Amazon System, shore of Alto Rio-Juruena not far from the road Cuiabá-Porto Velho. Holotype: USNM 194377.

Distribution: 320 (Langeani, 2003).

Hemiodus ternetzi Myers, 1927

Hemiodus ternetzi Myers, 1927:110. Type locality: Brazil: Jausinho Brook, into the Tocantins, Goyaz (Goiás). Holotype: CAS 61480 [IU 17691].

Distribution: 324 (Langeani, 1999a).

Hemiodus thayeria Böhlke, 1955

Hemiodus thayeria Böhlke, 1955c:8, figs. 20–21. Type locality: sandbank in the Rio Negro on the Brazil-Colombia border, at approximately 1°12' North Latitude, 66°51' West Longitude. [in the jar, Cucui is written on the tag]. Holotype: SU 48146.

Distribution: 308, 314, 316 (Langeani, 2003).

Hemiodus tocantinensis Langeani, 1999

Hemiodus tocantinensis Langeani, 1999a:719, fig. 1. Type locality: Tributary stream of ribeirão Lajeadozinho, below “cuesta”, rio Araguaia, Alto Araguaia, Mato Grosso. [Brazil]. Holotype: MZUSP 52628.

Distribution: 324 (Langeani, 1999a).

Hemiodus tucupi Silva, Nogueira, Netto-Ferreira, Akama, Dutra, 2020

Hemiodus tucupi Silva, Nogueira, Netto-Ferreira, Akama, Dutra, 2020:173, figs. 1–2.

Type locality: Brazil, Pará, Bacajá at rapids of the Igarapé Bacajá, Rio Xingu basin, 3°54'37.91"S, 51°44'32.78"W. Holotype: MPEG 36362.

Distribution: 322, 323, 324 (Silva *et al.*, 2020).

Hemiodus unimaculatus (Bloch, 1794)

Salmo unimaculatus Bloch, 1794:105, Pl. 381 (fig. 3). Type locality: Surinam [Suriname]. Syntypes: ZMB 3535 (2).

Anodus notatus Jardine, in Schomburgk, 1841:218, Pl. 15. Type locality: Sand-bank on the Rio Negro. No types known.

Hemiodus crenidens Müller, 1842:324. Type locality: Brasilien. [Brazil]. Syntypes: ZMB 33926 (2) [Zarske, 2012a].

Hemiodus microcephalus Günther, 1864:298. Type locality: River Capin. [Brazil]. Lectotype: BMNH 1849.11.8.39. [Designated by Langeani (2003)].

Hemiodus kappleri Günther, 1868a:479. Type locality: Surinam [Suriname]. Lectotype: BMNH 1866.9.10.29. [Designated by Langeani (2003)].

Distribution: 311, 314, 316, 317, 319, 321, 323, 324 (Langeani, 2003; Langeani, 2013).

Hemiodus vorderwinkleri (Géry, 1964)

Hemiodopsis vorderwinkleri Géry, 1964g:14, fig. 1. Type locality: Upper Amazon, on the Brazilian-Colombian boundaries surrounding Leticia. Holotype: MHNG 2151.20.

Distribution: 310, 316, 320 (Langeani, 2003; Nogueira *et al.*, 2020:340 and fig. 1).

MICROMISCHODUS Roberts, 1971

Micromischodus Roberts, 1971:4. Type species: *Micromischodus sugillatus* Roberts, 1971. Type by original designation. Gender: Masculine.

Micromischodus sugillatus Roberts, 1971

Micromischodus sugillatus Roberts, 1971:5, fig. 1. Type locality: Igarapé Tarumãzinho, 15 km NW of Manaus, on the left bank of the Rio Negro, Estado do Amazonas. [Brazil]. Holotype: MZUSP 6773.

Distribution: 314, 316 (Langeani, 2003; Langeani, 2013).

HEPSETIDAE Hubbs, 1939

E Decru

Sarcodacinae Eigenmann, 1909b:256. Type genus: *Sarcodace* Günther, 1864. Additional comments: Senior objective synonym of Hepsetinae Hubbs, 1939, but not the name in prevailing recent practice.

Hepsetinae Hubbs, 1939:168. Type genus: *Hepsetus* Swainson, 1838. Additional comments: Junior objective synonym of Sarcodacinae Eigenmann, 1909, but replacement name in prevailing recent practice.

HEPSETUS Swainson, 1838

Hepsetus Swainson, 1838:259. Type species: *Salmo odoe* Bloch, 1794. Type by subsequent designation by Hubbs, 1939. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Xyphostoma*.

Hydrocyonoides Castelnau, 1861:66. Type species: *Hydrocyonoides cuvieri* Castelnau, 1861. Type by monotypy. Gender: Masculine.

Sarcodaces Günther, 1864:352. Type species: *Salmo odoe* Bloch, 1794. Type by monotypy. Gender: Masculine.

Hepsetus cuvieri (Castelnau, 1861)

Hydrocyonoides cuvieri Castelnau, 1861:66. Type locality: lac N'gami. [neotype from Lake Ngami, Botswana]. Neotype: BMNH 1910.5.31.21. [Neotype designated by Zengeya *et al.* (2011).

Distribution: 540, 546, 551, 555, 557, 569 (Zengeya *et al.*, 2011).

Remarks: revalidated by Zengeya *et al.* (2011).

Hepsetus kingsleyae Vreven, Decru, Snoeks, 2013

Hepsetus kingsleyae Vreven, Decru, Snoeks, in Decru, Vreven, Snoeks, 2013:1359, fig. 5. Type locality: Lac Ndeguelie, bassin Ogooué, 00°41.93'S, 10°10.05'E. [Lake Ndeguelie, Ogowe basin, Gabon]. Holotype: RMCA 2000-048-p-1498.

Distribution: 532 (Decru *et al.*, 2013).

Hepsetus lineatus (Pellegrin, 1926)

Sarcodaces odoe var. *lineata* Pellegrin, 1926:157. Type locality: Tshela, Haut Mayumbe (Chiloango). [Lectotype from Tshela, Shiloango basin Democratic Republic of Congo]. Lectotype: RMCA 19132. [Designated by Decru *et al.*, 2013:1365].

Distribution: 505, 533, 532, 534 (Decru *et al.*, 2013).

Remarks: Revalidated as *Hepsetus lineata* by Decru *et al.* (2013). The genus is masculine, the correct spelling is *H. lineatus*, Decru *et al.* (2015).

Hepsetus microlepis (Boulenger, 1901)

Sarcodaces odoe var. *microlepis* Boulenger, 1901:139 [footnote]. Type locality: Congo et lac Ngami. [Lectotype locality: Ibali, Lake Leopold II, Democratic Republic of Congo]. Lectotype: BMNH 2011.7.21.1. [three syntypes had the collection number BMNH 1899.9.26.78-79; the lectotype was given the new collection number BMNH 2011.7.21.1. Lectotype designated by Decru *et al.* (2015)].

Distribution: 520, 534, 535, 536, 537, 538, 539, 540, 546, 547, 548, 550 (Decru *et al.*, 2015).

Remarks: alterations of prior names (Swain, 1882).

Hepsetus occidentalis Decru, Snoeks, Vreven, 2013

Hepsetus occidentalis Decru, Snoeks, Vreven, 2013:189. Type locality: Gambie: Riv. Gambie, vill. Kani Kunda, E. de Farafenni. [Gambia]. Holotype: RMCA 2010-16-P-1.

Distribution: 509, 511, 512 (Decru, Snoeks, Vreven, 2013).

Hepsetus odoe (Bloch, 1794)

Salmo odoe Bloch, 1794:122, Pl. 386. Type locality: Kütßte von Guinea. [Holotype probably from Togo or southeastern Ghana (Decru, Snoeks, Vreven, 2013)]. Holotype: ZMB 3615.

Salmo fulvus Shaw, 1804:80. Type locality: Guinea. [The locality Guinea was mentioned, but a specific type locality was not provided]. No types known. [Originally, no type was designated. The holotype of *H. odoe* was designated as the neotype of *H. fulvus* making it an objective junior synonym of *H. odoe* (Decru *et al.*, 2012)]. Most descriptions in Shaw (1804), including the one of *S. fulvus*, are unwarranted.

Hepsetus akawo Decru, Vreven, Snoeks, 2012:13, fig. 6. Type locality: Anecho, lagune ($\pm 06^{\circ}14'N, 01^{\circ}35'E$). [Togo]. Holotype: RMCA 73-5-P-465. [Proposed as synonym of *Hepsetus odoe* by Decru, Snoeks, Vreven (2013)].

Distribution: 505, 514, 515, 516, 517, 518, 533 (Decru *et al.*, 2012).

IGUANODECTIDAE Eigenmann, 1909

Iguanodectinae Eigenmann, 1909b:254. Type genus: *Iguanodectes* Cope, 1872. Additional comments: type genus inferred from the stem of the name article 11.7.1.1.

Piabucinae Fowler, 1950:340. Type genus: *Piabucus* Oken, 1817. Additional comments: Name only in Fowler (1950:340), but used as valid, as Piabucidi, in Fowler (1958:10).

***BRYCONOPS* Kner, 1858**

C Silva-Oliveira, FCT Lima

Bryconops Kner, 1858a:80. Type species: *Bryconops alburnoides* Kner, 1858. Type by subsequent designation by Eigenmann, 1910:435. Gender: Masculine.

Creatochanes Günther, 1864:318, 329–330. Type species: *Salmo melanurus* Bloch, 1794. Type by subsequent designation by Eigenmann, 1910:435. Gender: Masculine. Additional comments: Described in key as subgenus of *Tetragonopterus* with species listed on page 329.

Brycochandus Eigenmann, 1908:106. Type species: *Brycochandus durbini* Eigenmann, 1908. Type by original designation. Gender: Masculine.

Autanichthys Fernández-Yépez, 1950b:11. Type species: *Autanichthys giacopinii* Fernández-Yépez, 1950. Type by original designation. Gender: Masculine.

Bryconops affinis (Günther, 1864)

Tetragonopterus affinis Günther, 1864:329. Type locality: British Guiana. [Guyana]. Holotype: BMNH 1969.12.13. 1.

Distribution: 311 (Machado-Allison *et al.*, 1993; Planquette *et al.*, 1996; Mol, 2012).

Remarks: See comments on the species in Machado-Allison *et al.* (1993). Short description and picture of a live specimen in Planquette *et al.* (1996:264–265).

Bryconops alburnoides Kner, 1858

Bryconops alburnoides Kner, 1858a:80. Type locality: Rio Guaporé. [Brazil, Mato Grosso or Rondônia, Rio Guaporé]. Syntypes: NMW 5994 (1), 16170 (1, dry), 62843–45 (2, 2, 2).

Bryconops lucidus Kner, 1858a:80. Type locality: Rio Branco. [Rio Branco, tributary of rio Negro, Roraima, Brazil]. Holotype: NMW 62847.

Distribution: 307, 308, 310, 314, 315, 316, 318, 319, 321, 323, 324 (Machado–Allison *et al.*, 1993; Lima *et al.*, 2013:238; (C. Silva–Oliveira, pers. obs.)).

Remarks: Machado–Allison *et al.* (1993:7) acted as first reviser in giving precedence to *Bryconops alburnoides* over *B. lucidus*. Short description and pictures of specimens in Machado–Allison *et al.* (1993) and Lima *et al.* (2013:234–235).

Bryconops allisoni Silva–Oliveira, Canto, Ribeiro, 2019

Bryconops allisoni Silva–Oliveira, Canto, Ribeiro, 2019:2, figs 1,2, 4b. Type locality: igarapé Corredor Ecológico, rio Tapajós basin, Belterra, Pará, Brazil, 03°07'08"S, 55°03'42"W. Holotype: INPA 56754.

Distribution: 316 (Silva–Oliveira *et al.*, 2019).

Bryconops caudomaculatus (Günther, 1864)

Tetragonopterus caudomaculatus Günther, 1864:330. Type locality: South America. [Presumably Essequibo basin, Guyana (see Chernoff, Machado–Allison, 2005:7–8)]. Holotype: BMNH 1852.9.13.74.

Distribution: 307, 308, 310, 311, 314*, 315*, 316, 320 (Chernoff, Machado–Allison, 2005; Lima *et al.*, 2013;(C. Silva–Oliveira, pers. obs.)).

Remarks: Taxonomic comments on the species presented by Chernoff, Machado–Allison (2005).

Bryconops chernoffi Silva–Oliveira, Lima, Bogotá–Gregory, 2018

Bryconops chernoffi Silva–Oliveira, Lima, Bogotá–Gregory, 2018:373, figs. 1–3. Type locality: Brazil, Pará State, Monte Alegre, rio Ipixuna, a tributary of rio Maicuru, 1°29'23"S, 54°15'40"W. Holotype: ZUEC 14796.

Distribution: 315, 316 (Silva–Oliveira, Lima, Bogotá–Gregory, 2018).

Bryconops colanegra Chernoff, Machado–Allison, 1999

Bryconops colanegra Chernoff, Machado–Allison, 1999:365, figs. 5, 7. Type locality: Venezuela: Bolivar: Río Carrao near base camp at Angel Falls. Holotype: MBUCV-V-27716.

Distribution: 308 (Chernoff, Machado–Allison, 1999).

Bryconops colaroja Chernoff, Machado–Allison, 1999

Bryconops colaroja Chernoff, Machado–Allison, 1999:363, figs. 4, 6. Type locality: Venezuela: Bolivar: Río Las Claritas at Puente Las Claritas, at km 86 on the El Dorado–Sta. Elena Hwy, 6°10'16.4"N, 61°25'33.9"W. Holotype: MBUCV-V-27717.

Distribution: 308 (Chernoff, Machado–Allison, 1999).

Bryconops collettei Chernoff, Machado–Allison, 2005

Bryconops collettei Chernoff, Machado–Allison, 2005:13, 2B, 3B, 8. Type locality: Venezuela: Bolívar: Río Nichare at Wakawajai, tributary of the Río Caura, 6°19'21"N, 64°57'13"W. Holotype: MBUCV-V-30780.

Distribution: 308 (Chernoff, Machado–Allison, 2005).

Bryconops cyrtogaster (Norman, 1926)

Cretochanes cyrtogaster Norman, 1926:91. Type locality: Oyapock River, French Guiana. Syntypes: BMNH 1926.3.2.495–514 (20), BMNH1926.3.2.515–524 (10), BMNH 2009.9.22.1–16 (16), BMNH 2009.9.22.17–40 (24). [Silva-Oliveira *et al.* 2020:863 and Natural History Museum (2014)].

Distribution: 311 (Planquette *et al.*, 1996).

Remarks: Short description, map of distribution and a picture of recently collected specimen in Planquette *et al.* (1996:268–269); Redescription of species and discussion about its status in Silva-Oliveira *et al.*, 2020.

Bryconops disruptus Machado-Allison, Chernoff, 1997

Bryconops disruptus Machado-Allison, Chernoff, 1997:68, figs. 2–7. Type locality: Pozos y Playas em la boca del Caño Darigua 7 Km Sur de San Carlos de Río Negro, Amazonas, Venezuela. Holotype: MBUCV-V-25003.

Distribution: 314, 316 (Machado-Allison, Chernoff, 1997).

Bryconops durbinae (Eigenmann, 1908)

Brycochandus durbini Eigenmann, 1908:106. Type locality: Rio Tapajos. [Brazil, Pará, Rio Tapajós]. Syntypes: MCZ 20862 (2).

Distribution: 316 (Machado-Allison, Chernoff, 1997; (C. Silva-Oliveira, pers. obs.).

Remarks: Originally as *durbini*, but named for Miss Marion Lee Durbin, so corrected to *durbinae* (Fricke *et al.*, 2022).

Bryconops florenceae Silva-Oliveira, Ota, Sabaj, Rapp Py-Daniel, 2021

Bryconops florenceae Silva-Oliveira, Ota, Sabaj, Rapp Py-Daniel, 2021:3, figs. 1–2. Type locality: Suriname, Sipalawini, Litanie River at mouth and confluence with Maroni River, just upstream from settlement of Konya Kondre, 03° 17'24"N, 54° 04'38"W. [Suriname]. Holotype: ANSP 207355.

Distribution: 311 (Silva-Oliveira, Ota, Sabaj, Rapp Py-Daniel, 2021).

Bryconops giacopinii (Fernández-Yépez, 1950)

Autanichthys giacopinii Fernández-Yépez, 1950b:12, Pl. 1 (fig. 3). Type locality: Venezuela, Federal Territory of Amazonas, Río Autana approximately 8 km above confluence in the Río Sipapo, approximately 4° 44'N, 67° 37'W. [Type locality restricted by Chernoff *et al.* (1994:239)]. Neotype: MBUCV-V-21510. [Neotype designated by Chernoff *et al.* (1994:239)].

Distribution: 314*, 315, 316* (Machado-Allison *et al.*, 1993; Chernoff *et al.*, 1994; Zuanon *et al.*, 2015; C. Silva-Oliveira, pers. obs.).

Remarks: Taxonomic status of the species discussed by Chernoff *et al.* (1994). Picture of a living specimen and a short account on the species in Zuanon *et al.* (2015:44).

Bryconops gracilis (Eigenmann, 1908)

Cretochanes gracilis Eigenmann, 1908:106. Type locality: Rio Tapajos. [Brazil, Pará, Rio Tapajós]. Holotype: MCZ 20868 [Silva-Oliveira *et al.* (2021)].

Distribution: 308, 314, 316, 320, 322, 324, (Eigenmann, 1908).

Remarks: Species redescribed by Silva-Oliveira *et al.* (2021)

Bryconops hexalepis Guedes, Oliveira, Lucinda, 2019

Bryconops hexalepis Guedes, Oliveira, Lucinda, 2019:2, figs. 1,2. Type locality: Brazil: Tocantins State: Paranã, rio Tocantins, fazenda Traçadal, 12° 28'01"S, 48° 14'47"W. Holotype: MCP 53583.

Distribution: 324 (Guedes *et al.*, 2019).

Bryconops humeralis Machado-Allison, Chernoff, Backup, 1996

- Bryconops humeralis* Machado-Allison, Chernoff, Buckup, 1996:46, figs. 3–5, 9.
Type locality: Río Cuaó, AM. [Venezuela, Estado Amazonas]. Holotype: MBUCV-V-25000.
Distribution: 314*, 315, 316* (Machado-Allison *et al.*, 1996; C. Silva-Oliveira, pers. obs.).
- Bryconops imitator*** Chernoff, Machado-Allison, 2002
Bryconops (Creatochanes) imitator Chernoff, Machado-Allison, in Chernoff, Machado-Allison, Provenzano, Willink, Petry, 2002:195, figs. 2, 3, 4a, 5, 6a, 7a. Type locality: Venezuela: Bolívar: Río Caura, Small branch of Río Caura at Raudal Cejiato, 5°33'28"N, 64°18'49"W. Holotype: MBUCV-V-29605.
Distribution: 308 (Chernoff *et al.*, 2002).
- Bryconops inpai*** Knöppel, Junk, Géry, 1968
Bryconops (Creatochanes) inpai Knöppel, Junk, Géry, 1968:231, fig. 1b. Type locality: Lower Rio Negro region, Igarapé Barro Branco, a brook in the “Reserva Ducke” (INPA) about 30 Km from Manáus. [Brazil, Amazonas, Manaus, approximately 2°56'S, 59°58'W]. Holotype: INPA 10798.
Distribution: 308, 314*, 316, 321 (Machado-Allison *et al.*, 1993; Lima *et al.*, 2013; Zuanon *et al.*, 2015; Silva-Oliveira *et al.*, 2015; C. Silva-Oliveira, pers. obs.).
Remarks: Machado-Allison *et al.* (1993), Lima *et al.* (2013:236–237), and Zuanon *et al.* (2015:45) provided general information on the species.
- Bryconops magoi*** Chernoff, Machado-Allison, 2005
Bryconops magoi Chernoff, Machado-Allison, 2005:9, figs. 2C, 3C, 4, 5. Type locality: Venezuela: Anzoátegui: Río Moquete at Paso Bajito. [Approximately 8°35'52"N, 64°13'20"W]. Holotype: MBUCV-V-30782.
Distribution: 309 (Chernoff, Machado-Allison, 2005).
- Bryconops marabaixo*** Silva-Oliveira, Moreira, Lima, Rapp Py-Daniel, 2020
Bryconops marabaixo Silva-Oliveira, Moreira, Lima, Rapp Py-Daniel, 2020:863, figs. 4–6. Type locality: Brazil, Amapá, Laranjal do Jari, Cachoeira de São Raimundo, rio Iratapuru, left bank tributary of rio Jari, Amazon basin, 00°33'59"S, 52°34'40"W. Holotype: MZUSP 125767.
Distribution: 323 (Silva-Oliveira *et al.*, 2020).
- Bryconops melanurus*** (Bloch, 1794)
Salmo melanurus Bloch, 1794:104, Pl. 381 (fig. 2). Type locality: Surinam [Suriname].
Syntypes: ZMB 3588 (2).
Distribution: 310, 311, 315*, 316*, 323*, 325, 326, 327, 343 (Chernoff *et al.*, 1994; Planquette *et al.*, 1996; Mol, 2012; C. Silva-Oliveira, pers. obs.).
Remarks: Comments on the taxonomy of the species in Machado-Allison *et al.* (1993) and Chernoff *et al.* (1994), short description and picture of a live specimen in Planquette *et al.* (1996:270–271).
- Bryconops munduruku*** Silva-Oliveira, Canto, Ribeiro, 2015
Bryconops munduruku Silva-Oliveira, Canto, Ribeiro, 2015:136, figs. 1–3. Type locality: Brazil, Pará State, Aveiro, igarapé Açu, tributary of the right margin of the Tapajós River, about 10 km of the city of Aveiro, 0336°0.99'S, 5514°59.14"W. [Coordinates of type locality 3°36'0.99"S, 55°14'59.14"W]. Holotype: INPA 46510.
Distribution: 316 (Silva-Oliveira *et al.*, 2015).

Bryconops piracolina Wingert, Malabarba, 2011

Bryconops piracolina Wingert, Malabarba, 2011:472, figs. 1–4. Type locality: Brazil, Rondônia, Vilhena, Igarapé Piracolina (rio Madeira basin), about 6 km W of Vilhena, near highway BR-364, 12°43'33"S, 60°11'34"W. Holotype: MCP 44796.

Distribution: 321 (Wingert, Malabarba, 2011; Lima *et al.*, 2013:238).

Remarks: Lima *et al.* (2013:238–239) provided additional information on the species.

Bryconops rheoruber Silva-Oliveira, Sabaj, Ota, Rapp Py-Daniel, 2019

Bryconops rheoruber Silva-Oliveira, Sabaj, Ota, Rapp Py-Daniel, 2019:2, figs. 1–4, 8. Type locality: Brazil: Pará: Altamira: rio Xingu (upper Volta Grande), rapids in narrow bedrock channel of left major braid of Xingu, 3°16'41.56"S, 52°2'18.35"W. Holotype: INPA 57879.

Distribution: 322 (Silva-Oliveira *et al.*, 2019).

Remarks: Adjective is *rheoruber* when combined with a masculine genus (Fricke *et al.*, 2022).

Bryconops sapezal Wingert, Chuctaya, Malabarba, 2018

Bryconops sapezal Wingert, Chuctaya, Malabarba, 2018:380, figs. 1–5. Type locality: Brazil, Mato Grosso, Sapezal, Rio Sauê-Uiná downstream from a dam, near the highway BR-364, Rio Tapajós basin, 13°32'22"S, 58°50'48"W. Holotype: MCP 44795.

Distribution: 320 (Wingert, Chuctaya, Malabarba, 2018).

Bryconops tocantinensis Guedes, Oliveira, Lucinda, 2016

Bryconops tocantinensis Guedes, Oliveira, Lucinda, 2016:[2], figs. 1–4. Type locality: Brazil, Tocantins, Taguatinga, rio Conceição (tributary of rio Palma, upper rio Tocantins drainage), 12°19'48.30"S, 46°25'4.20"W. Holotype: MCP 49199.

Distribution: 324 (Guedes *et al.*, 2016).

Bryconops transitoria (Steindachner, 1915)

Cretochanes melanurus var. *transitoria* Steindachner, 1915c:49 [35], Pl. 1 (fig. 5). Type locality: Rio Branco [Brazil, Roraima]; Rupununi River (Guyana, Melville). Syntypes: (several) NMW 68532 (4) (Rupununi River), 68939 (3), 69213 (6) (Rio Branco).

Distribution: 316* (Steindachner, 1917; Lucinda, Guedes, 2018).

Remarks: Steindachner (1915) described *Cretochanes transitoria* as a variety of *Cretochanes melanurus*. Lima *et al.* (2003) considered it as a valid species and stated the locality to be Rio Tapajós. Lucinda, Guedes (2018) reviewed of the syntype series and corrected the combination of the name and the type locality to Rio Branco at Boa Vista, Brazil and the Rupununi River at Melville, Guyana.

Bryconops vibex Machado-Allison, Chernoff, Buckup, 1996

Bryconops vibex Machado-Allison, Chernoff, Buckup, 1996:47, figs. 6–8. Type locality: Río Cataniapo, Salto Nieves, AM. [Venezuela, Estado Amazonas]. Holotype: MBUCV-V-25002.

Distribution: 308 (Machado-Allison *et al.*, 1996).

IGUANODECTES Cope, 1872

CR Moreira

Iguanodectes Cope, 1872b:260. Type species: *Iguanodectes tenuis* Cope, 1872. Type by

monotypy. Gender: Masculine.

Piabucidium Myers, in Eigenmann, Myers, 1929:496. Type species: *Piabuca spilurus* Günther, 1864. Type by original designation. Gender: Neuter. Additional comments: Originally proposed as subgenus of *Piabucus*.

Iguanobrycon Géry, 1970:424. Type species: *Iguanodectes geisleri* Géry, 1970. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Iguanodectes*.

Iguanodectes adujai Géry, 1970

Iguanodectes adujai Géry, 1970:419, fig. 2 (no. 2). Type locality: Rio Adujá, Rio Itú (affluent du Rio Negro moyen). [Rio Itú, tributary of rio Araçá, Rio Negro basin, Amazonas, Brazil]. Holotype: MHNG 2229.06.

Distribution: 307*, 314 (Géry, 1993; CR Moreira, pers. obs.).

Iguanodectes geisleri Géry, 1970

Iguanodectes geisleri Géry, 1970:422, fig. 2 (no. 4). Type locality: Igarapé de Paricá, Rio Jufaris (approximativement 1°05' Lat. S. et 62°10' Long. O., affluent du cours moyen du Rio Negro. [Igarapé de Paricá, Rio Jufari, Rio Negro basin, Amazonas, Brazil]. Holotype: MHNG 2229.02.

Distribution: 307*, 314, 316, 318, 321 (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes gracilis Géry, 1993

Iguanodectes gracilis Géry, 1993:100, fig. 7. Type locality: Rio Mamolé, affluent du Rio Cuiuini, bassin du Rio Negro moyen. [Rio Cuiuini or Rio Cuiuni, Rio Negro basin, close to Barcelos, Amazonas, Brazil]. Holotype: MZUSP 45682.

Distribution: 314 (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes polylepis Géry, 1993

Iguanodectes polylepis Géry, 1993:103, figs. 10–11. Type locality: Affluent du Rio Ituxiou (ou Pixuna), bassin du Rio Purus à l'O de Humaita. [Rio Ituxi or Rio Ipixuna, Rio Purus basin, Amazonas, Brazil]. Holotype: MZUSP 45684.

Distribution: 316, 321 (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes purusii (Steindachner, 1908)

Piabuca purusii Steindachner, 1908a:63. Type locality: Rio Purus. Holotype: NMW 56584.

Distribution: 316, 321, 323* (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes rachovii Regan, 1912

Iguanodectes rachovii Regan, 1912a:682. Type locality: The Amazon at Manaus. [Manaus, Amazonas, Brazil]. Syntypes: (4) BMNH 1913.3.1.38–39 (2).

Distribution: 316, 323* (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes spilurus (Günther, 1864)

Piabuca spilurus Günther, 1864:344. Type locality: Rio Cupai. [Rio Cupari, Rio Tapajós basin]. Holotype: BMNH 1853.3.19.70.

Iguanodectes tenuis Cope, 1872b:260, Pl. 8 (figs. 1, 1a). Type locality: Ambyiacu River. [Río Ampyiacu, Rio Amazonas basin, Pebas, Peru]. Holotype: ANSP (not found). [Böhlke (1984:55)].

Distribution: 307*, 309*, 310*, 311*, 314*, 316*, 317*, 318*, 319*, 320*, 321*, 322*, 323*, 324* (Géry, 1993; C. Moreira, pers. obs.).

Iguanodectes variatus Géry, 1993

Iguanodectes variatus Géry, 1993:101, figs. 8–9. Type locality: Igarapé Jatuarana, 5 km en amont de Samuel, Rio Guaporé, Territoire du Rondonia, Brésil. Holotype: MZUSP 45683.

Distribution: 314*, 316, 319, 321 (Géry, 1993; C. Moreira, pers. obs.).

PIABUCUS Oken, 1817

CR Moreira

Piabucus Oken, 1817:1183. Type species: *Salmo argentinus* Linnaeus, 1766. Type by subsequent designation by Eigenmann, 1910. Gender: Masculine.

Piabuca Müller, Troschel, 1844:85. Type species: *Salmo argentinus* Linnaeus, 1766. Type by monotypy. Gender: Feminine. Additional comments: Objective synonym of *Piabucus* Oken, 1817.

Piabucus caudomaculatus Vari, 1977

Piabucus caudomaculatus Vari, 1977:2, fig. 1. Type locality: Rio Matucare just above its junction with the Rio Mamoré at Puerto Siles, Department of Beni, Bolivia (approx. lat. 12° 49'S, long. 65° 04'W). Holotype: AMNH 32490.

Distribution: 318 (Vari, 1977).

Piabucus dentatus (Koelreuter, 1763)

Trutta dentata Koelreuter, 1763:413, Pl. 14 (fig. 4). Type locality: Not given. No types known.

Salmo argentinus Linnaeus, 1766:511. Type locality: Brasilia. [Brazil]. No types known.

Distribution: 309, 310, 311, 323* (Eigenmann, 1912a; Guimarães *et al.*, 2017; Mol, 2012; Planquette *et al.*, 1996; Vari *et al.*, 2009; C. Moreira, pers. obs.).

Piabucus melanostomus Holmberg, 1891

Piabuca melanostoma Holmberg, 1891:192. Type locality: República Argentina, Cuenca dels Plata, Río Paraguay. Formosa (Chaco); Paraguay, Asuncion. No types known.

Distribution: 316, 317*, 318, 319, 321, 342, 343* (Froehlich *et al.*, 2017; Jégu *et al.*, 2012; Lauzanne, Loubens, 1985; Lima *et al.*, 2013; Ortega *et al.*, 2012; C. Moreira, pers. obs.).

LEBIASINIDAE Gill, 1889

Pyrrhulinini Bleeker, 1859:XXX. Type genus: *Pyrrhulina* Valenciennes, 1846.

Lebiasininae Gill, 1889:2000. Type genus: *Lebiasina* Valenciennes in Cuvier, Valenciennes, 1847. Additional comments: Name in prevailing recent practice for the family instead of Pyrrhulinini Bleeker, 1859. Following the Article 35.5 of the Code, the usage of Lebiasininae Gill, 1889 is correct. Hoedeman (1950b:83) changed the stem to Lebias-.

Nannostomi Gill, 1896b:205. (no family-group name).

Nannostomatinae Eigenmann, 1909a (correct spelling Nannostom-):35. Type genus: *Nannostomus* Günther, 1872. Additional comments: Eigenmann (1909a:35) misspelled Nannostomatinae. Regan (1911e:21) changed the stem to Nannostom-.

Piabucininae Eigenmann, 1909b:255. Type genus: *Piabucina* Valenciennes, 1850.

COPEINA Fowler, 1906

MMF Marinho

Copeina Fowler, 1906:294. Type species: *Pyrrhulina argyrops* Cope, 1878. Type by original designation. Gender: Feminine.

Copeina guttata (Steindachner, 1876)

Pyrrhulina guttata Steindachner, 1876a:15, Pl. 2 (figs. 6 and 5a). Type locality: Nebenbäche und Ausstände des Amazonenstromes bei Obidos, Cudajas und Tabatinga so wie des Rio negro. [Affluents of the rio Amazonas nearby Óbidos, Codajás and Tabatinga, as well as rio Negro, Brazil]. Syntypes: NMW 56966, 56967, 56969; MCZ 6833, 6429; USNM 120282, ZMB 10425; ZMUC 143, 143x (Weitzman, Weitzman, 2003). [Picture and X-ray of the ZMB syntype provided by Zarske (2012b: the mouth of the Napo. [Ambiguity exists concerning the exact origin of the specimens: “Pebas, below the mouth of the Napo”, “near Pebas” or even other localities listed by Cope (1878) who mentioned that specimens collected in 1877 “were partly obtained near Pebas”]. Lectotype: ANSP 21441. [Designated by Fowler (1906:295). Böhlke (1984:118)].

Distribution: 314, 316 (Steindachner, 1876a).

Remarks: Plate 2 of Steindachner is erroneously labeled (Myers, 1956). Thus figs. 5a and 6 are *Copeina guttata* and figs. 5 and 6a are *Copella nattereri* (Weitzman, Weitzman, 2003).

Copeina osgoodi Eigenmann, 1922

Copeina osgoodi Eigenmann, 1922:232. Type locality: Nazareth, Peru. Holotype: FMNH 15352.

Distribution: 313 (Eigenmann, 1922).

Remarks: There is no recent taxonomic review of *Copeina*. Weitzman, Weitzman (2003), suggested that there could be only one species, *Copeina guttata*.

COPELLA Myers, 1956

MMF Marinho

Copella Myers, 1956:12. Type species: *Copeina compta* Myers, 1927. Type by original designation. Gender: Feminine.

Copella arnoldi (Regan, 1912)

Copeina arnoldi Regan, 1912b:393. Type locality: Amazon. [lower Amazon basin, Brazil]. Syntypes: BMNH 1909.4.2.25–26 (2).

Copeina carsevennensis Regan, 1912b:394. Type locality: Carsevenne. [Rio Calçoene, now coastal drainages of Amapá, Brazil]. Syntypes: BMNH 1899.7.26.1–5 (5). Taxonomic status discussed by Marinho, Menezes, 2017:15.

Distribution: 304, 309, 311, 315*, 323 (Weitzman, Weitzman, 2003; Marinho, Menezes, 2017:12).

Remarks: Redescribed in Marinho, Menezes, 2017:6. Fowler (1950:344) considered *Copeina carsevennensis* a junior synonym of *Copeina arnoldi*, thus acting as first reviser in establishing priority.

Copella callolepis (Regan, 1912)

Copeina callolepis Regan, 1912b:393. Type locality: Amazon. Lectotype: BMNH 1909.4.2.27. [Designated by Zarske, Géry (2006d)].

Nannostomus stigmatemion Fowler, 1913b:523, fig. 4. Type locality: Tributary of the Madeira River near Porto Velho, Brazil. Holotype: ANSP 39188. [Juvenile specimen in poor condition]. Not listed by Weitzman, Weitzman (2003). Treated as *Pyrrhulina* by Sarmiento *et al.* (2014). Proposed as a synonym of *Copella callolepis* (Regan, 1912) by Marinho, Menezes, 2017:18.

Pyrrhulina nigrofasciata Meinken, 1952:115, figs. 1–3. Type locality: Oberen Amazonenstromgebiet, wie mit Sicherheit anzunehmen ist, aus dem peruanischen Amazonas. [Aquarium specimens imported from the Upper rio Amazonas, said to be from the Peruvian Amazon]. Syntypes: (3) ZMH H1211 (1), 1212 (3). [Marinho, Menezes, 2017:23]. Taxonomic status discussed by Marinho, Menezes, 2017:24.

Distribution: 314, 316 (Zarske, Géry, 2006d; Marinho, Menezes, 2017:21).

Remarks: Redescribed in Marinho, Menezes, 2017:16.

Copella compta (Myers, 1927)

Copeina compta Myers, 1927:110. Type locality: Brazil: Creek above São Gabriel Rapids, Rio Negro. Holotype: CAS 60496.

Distribution: 314 (Weitzman, Weitzman, 2003; Marinho, Menezes 2017:27).

Remarks: Redescribed in Marinho, Menezes, 2017:24.

Copella eigenmanni (Regan, 1912)

Copeina eigenmanni Regan, 1912b:393. Type locality: Para; R. Aruka, Brit. Guiana; Lama, Brit. Guiana; Bogota. [Lectotype locality: Bogotá, probably collected near Villavicencio on the rio Meta, Colombia (Weitzman, Weitzman, 2003)]. Lectotype: BMNH 1869.7.25.6. [Designated by Zarske (2011a), but see Marinho, Menezes, 2017:35.

Copeina metae Eigenmann, 1914a:229. Type locality: Barrigona, Rio Meta, Colombia. [Probably at Puerto Barrigón, rio Meta, Colombia]. Holotype: CAS 60494. [Marinho, Menezes, 2017:36]. Taxonomic status discussed by Marinho, Menezes, 2017:35.

Distribution: 304, 306, 307, 308, 309, 313, 314 (Weitzman, Weitzman, 2003; Zarske, 2011a; Marinho, Menezes, 2017:21).

Remarks: Redescribed in Marinho, Menezes, 2017:29.

Copella nattereri (Steindachner, 1876)

Pyrrhulina nattereri Steindachner, 1876a:8 [8], Pl. 2 (figs. 5–6a). Type locality: Mündung des Rio negro; Obidos in einem Nebenarme des Amazonenstromes. [Lectotype locality: Óbidos, in a tributary of the rio Amazonas, Brazil (Zarske, Géry, 2006d)]. Lectotype: NMW 95055. [Designated by Zarske, Géry (2006d)].

Copella meinken Zarske, Géry, 2006d:27, figs. 12–15, 18, Pl. 1. Type locality: Rio Negro, Klarwasserbach am südl. bzw. Westlichen rio-Negro-Ufer ca. 5 km unterhalb (südl.) von Novo Airao. [Rio Negro, clear water stream on Southwestern bank of rio Negro, about 5 km downstream Novo Airão, Brazil]. Holotype: MTD F 30587. Taxonomic status discussed by Marinho, Menezes, 2017:42.

Distribution: 307, 308, 314, 315, 316 (Weitzman, Weitzman, 2003; Marinho, Netto-Ferreira, 2013; Marinho, Menezes, 2017:12).

Remarks: Taxonomic status discussed by Marinho, Menezes, 2017:42.

***Copella vilmae* Géry, 1963**

Copella vilmae Géry, 1963c:25, figs. 1–2. Type locality: Igarapé Prêto, collatéral de l'Amazone supérieure près de Belem, à environ 60 km en aval de Leticia. [Igarapé Preto, affluent of the Upper rio Amazonas near Belem (= probably village of Belém do Solimões, Amazonas, Brazil), about 60 km downstream Leticia, Colombia]. Holotype: SMF 5931. [Marinho, Menezes, 2017:49].

Distribution: 316 (Géry, 1963c; Marinho, Menezes, 2017:27.).

Remarks: Redescribed in Marinho, Menezes, 2017:44.

DERHAMIA Géry, Zarske, 2002

MMF Marinho

Derhamia Géry, Zarske, 2002:36. Type species: *Derhamia hoffmannorum* Géry, Zarske, 2002. Type by original designation. Gender: Feminine.

***Derhamia hoffmannorum* Géry, Zarske, 2002**

Derhamia hoffmannorum Géry, Zarske, 2002:39, figs. 1–6, 8, 11 (above). Type locality: sand bank at the confluent of the Kamarang River and the Mazaruni River, north-western part of Guyana north of the Roraima. Holotype: MTD F 26491.

Distribution: 310 (Géry, Zarske, 2002:531. Type species: *Lebiasina bimaculata* Valenciennes, 1847. Type by monotypy. Gender: Feminine.

LEBIASINA Valenciennes, 1847

AL Netto-Ferreira

Lebiasina Valenciennes 1847:531. Type species: *Lebiasina bimaculata* Valenciennes 1847. Type by monotypy. Gender: Feminine.

Piabucina Valenciennes, in Cuvier, Valenciennes, 1850:161. Type species: *Piabucina erythrinoides* Valenciennes, 1850. Type by monotypy. Gender: Feminine.

***Lebiasina ardilai* Netto-Ferreira, Lopez-Fernandez, Taphorn, Liverpool, 2013**

Lebiasina ardilai Netto-Ferreira, Lopez-Fernandez, Taphorn, Liverpool, 2013:563, fig. 1. Type locality: Guyana, Zone 7, Essequibo River system, Mazaruni River drainage Waruma Creek at campsite, 5°28'40.3"N, 60°46'45.3"W. Holotype: CSBD 1663 [ex. ROM 83872].

Distribution: 310 (Netto-Ferreira *et al.*, 2013).

***Lebiasina astrigata* (Regan, 1903)**

Piabucina astrigata Regan, 1903:622. Type locality: St. Javier, Paramba and the Rio Sapayo, N.W. Ecuador. Syntypes: BMNH 1898.4.28.164–166 (3), 1901.3.29.71 (1), 1902.7.29.59 (1).

Distribution: 301 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

***Lebiasina aureoguttata* (Fowler, 1911)**

Piabucina aureoguttata Fowler, 1911b:513, fig. 6. Type locality: Affluent of the Chimbo River, near Bucay, Province of Guayas, Ecuador. Holotype: ANSP 39103.

Distribution: 301 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Lebiasina bimaculata Valenciennes, 1847

Lebiasina bimaculata Valenciennes, in Cuvier, Valenciennes, 1847:531, Pl. 587 [not 553]. Type locality: ... a été rapporté des environs de Lima par M. Fontaine, qui l'a pêché dans la rivière le Remac, en 1834. [Peru]. Holotype: MNHN 0000-0141.

Distribution: 301, 312*, 313*, 336* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; A. Netto-Ferreira, pers. obs.).

Lebiasina boruca (Bussing, 1967)

Piabucina boruca Bussing, 1967:218, fig. 3. Type locality: Puntarenas. Stream 7.5 km S of 1H on road to Golfito. 20 m alt. [Locality estimated from label information to be near 8°37'11"N, 83°03'36"W, Costa Rica]. Holotype: LACM 9239-1.

Distribution: 205*, 206* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; A. Netto-Ferreira, pers. obs.).

Lebiasina chocoensis Ardila Rodríguez, 2010

Lebiasina chocoensis Ardila Rodríguez, 2010: Cover. figs. Cover, 1, 3, 5, 6A-B, 7A-B, 8A. Type locality: Quebrada afluente del río Tutunendo; corregimiento de Quibdó, Departamento del Chocó, Colombia. [Coordinates of type locality estimated at: 05°46'56"N, 76°34'18"W. Coordinates presented in by Fricke *et al.* (2022) correspond to a point in the Pacific Ocean]. Holotype: CAR 315. [Type Series previously catalogued under the number CAR 15-04-37].

Distribution: 301 (Ardila Rodríguez, 2010).

Remarks: The species name is presented for the first time on the cover page along with the photo of the holotype, which is not depicted elsewhere in the publication.

Lebiasina chucuriensis Ardila Rodríguez, 2001

Lebiasina chucuriensis Ardila Rodríguez, 2001:1, unnumbered figs of holotype (p. 3) and paratypes (CAR 15-04-25 – p. 9), figs. 1, 3, 5, [7] A-B, [8]. Type locality: Quebrada La Carbonera, afluente del Río La Llana. Municipio de San Vicente de Chucurí, Departamento de Santander, Colombia. Holotype: CAR 150424. [Type catalog Mojica, Agudelo-Zamora (2018:23)].

Distribution: 302 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Remarks: Possibly a junior synonym of *L. floridablancaensis*.

Lebiasina colombia Ardila Rodríguez, 2008

Lebiasina colombia Ardila Rodríguez, 2008b:27, figs. 1–2, 3A–B, 4A, 5A–B. Type locality: Quebrada El Higuerón, afluente del Río Sinú, Tierralta, Departamento de Córdoba, Colombia. [Coordinates of type locality: 08°11'38.6"N, 76°04'44.0"W (estimated)]. Holotype: CAR 190.

Distribution: 209*, 302 (Ardila Rodríguez, 2008b; A. Netto-Ferreira, pers. obs.).

Lebiasina elongata (Boulenger, 1887)

Piabucina elongata Boulenger, 1887b:280, Pl. 23 (fig. 2). Type locality: Two adult specimens from Canelos, and three young from Sarayacu. [Ecuador]. Syntypes: BMNH 1880.12.8.123–124 (2), 1880.12.5.255–257 (3).

Distribution: 305*, 306*, 312*, 313* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; A. Netto-Ferreira, pers. obs.).

Lebiasina erythrinoides (Valenciennes, 1850)

Piabucina erythrinoides Valenciennes, in Cuvier, Valenciennes, 1850:161, Pl. 640. Type locality: ... dans rivières de Maracaibo, du côté du Parija, avec le Paradon suborbitale. ["Parija" is a possible reference to the Sierra de Perija, delimiting the northwestern border of the Maracaibo system in Venezuela]. Syntypes: (2) MNHN 0000-4614. [Two specimens are clearly mentioned by Cuvier, Valenciennes (1850:164). Specimens were not catalogued as types until April/2011. Information in Weitzman, Weitzman, 2003:246 is in error].

Piabucina pleurotaenia Regan, 1903:623. Type locality: Venezuela, Mérida. [Information on the altitude (1600m) is included only in the description text. Collection site estimated to be in the Maracaibo side of the Andes]. Syntypes: (6) BMNH1902.7.29.91-92 (2), BMNH1903.4.28.39-40 (2), BMNH1904.6.30.19-20(2). Synonymy proposed by Taphorn, Lilyestrom (1980) and Taphorn (1992). Retained as a separate species by Weitzman, Weitzman (2003:247).

Distribution: 302*, 303*, 304*, 305*, 306*, 307* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013; A. Netto-Ferreira, pers. obs.).

Lebiasina festae (Boulenger, 1899)

Piabucina festae Boulenger, 1899a:1. Type locality: Laguna della Pita (Darien). [Currently known as Laguna de Matusagrati, in the Reserva Forestal Canglon, Panama (8°20'0.0"N, 77°56'0.0"W)]. Holotype: MZUT 1591. [Lack of staff members at the MZUT prevents examination and further information about the type specimen (Franco Andreone pers. comm.)].

Distribution: 210, 301* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; A. Netto-Ferreira, pers. obs.).

Lebiasina floridablancaensis Ardila Rodríguez, 1994

Lebiasina floridablancaensis Ardila Rodríguez, 1994: 1, figs. 1-2. Type locality: Quebrada el Gaque, Tributario del Río Aranzoque. [Type locality estimated as: 7°02'18.3"N, 73°04'25.4"W, Colombia]. Holotype: CAR 15-04-01. [Type catalog by Mojica, Agudelo-Zamora (2018:23)].

Distribution: 302 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011).

Lebiasina intermedia Meinken, 1936

Lebiasina intermedia Meinken, 1936:49, fig. unnumbered (p. 49). Type locality: Fangort mittlerer Amazonas bei Santarem. [Type locality is wrong as suggested by Weitzman, Weitzman (2003), Netto-Ferreira *et al.* (2011), Netto-Ferreira (2012) and Netto-Ferreira *et al.* (2013)]. Holotype: ?KHMM 2156. [Apparently lost during World War II].

Distribution: 311* (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013; A. Netto-Ferreira, pers. obs.).

Remarks: Specimens matching meristics and color pattern mentioned in the original description of *L. intermedia* were recently collected in the Potaro river basin. Given the general endemism of Lebiasininae species, it is possible that specimens were originally collected there and sent to Europe. Origin of confusion about type locality remains unknown.

Lebiasina marilynae Netto-Ferreira, 2012

Lebiasina marilynae Netto-Ferreira, 2012:488, fig. 1, 3a. Type locality: Brazil, Pará,

Altamira, rio Xingu drainage, unnamed tributary of rio Curuá, rio Iriri basin, near BR-163 road, 08° 49'12"S, 54° 58'11"W. Holotype: MZUSP 101375.

Distribution: 322 (Netto-Ferreira, 2012).

Lebiasina melanoguttata Netto-Ferreira, 2012

Lebiasina melanoguttata Netto-Ferreira, 2012:491, figs. 5, 2a. Type locality: Brazil, Pará, Altamira, rio Xingu drainage, unnamed tributary of rio Curuá, rio Iriri basin, near BR-163 road, 08° 49'12"S, 54° 58'11"W. Holotype: MZUSP 99609.

Distribution: 322 (Netto-Ferreira, 2012).

Lebiasina minuta Netto-Ferreira, 2012

Lebiasina minuta Netto-Ferreira, 2012:494, fig. 6. Type locality: Brazil, Pará, Altamira, rio Xingu drainage, rio Treze de Maio, rio Iriri basin, near BR-163, 08° 47'03"S, 54° 58'29"W. Holotype: MZUSP 110693.

Distribution: 322 (Netto-Ferreira, 2012).

Lebiasina multimaculata Boulenger, 1911

Lebiasina multimaculata Boulenger, 1911b:212. Type locality: Three specimens from the Condoto River at Condoto, Choco, 150 ft. [Coordinates of type locality estimated as: 5° 05'43.7"N, 76° 38'50.3"W, Colombia]. Syntypes: BMNH 1910.7.11.167–169 (3).

Distribution: 301 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011).

Lebiasina narinensis Ardila Rodríguez, 2002

Lebiasina nariñensis Ardila Rodríguez, 2002: 13, figs. 1–3, 5. Type locality: Quebrada Angostura, vía Tumaco-Pasto, Departamento de Nariño, Colombia. Holotype: ICN-MHN 2340. [(Mojica, Agudelo-Zamora (2018:25)].

Distribution: 301 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011).

Remarks: Apparently a junior synonym of *L. astrigata*.

Lebiasina ortegai Ardila Rodríguez, 2008

Lebiasina ortegai Ardila Rodríguez, 2008a:20, figs. 2–9, 10A. Type locality: Quebrada afluyente de Río Las Cañas, 200m antes de cruzar la via Florida-Miranda, Municipio de Florida, Valle del Cauca. [Estimated coordinates: 3° 19'8.5"N, 76° 14'15.4"W, Colombia]. Holotype: IMCN 4200.

Distribution: 305 (Ardila Rodríguez, 2008a).

Lebiasina panamensis (Gill, 1877)

Piabucina panamensis Gill, 1877:336. Type locality: Three specimens (an old and young) were collected in the Rio Frijoli, and an adult in another stream emptying into the Atlantic. [Panama]. Syntypes: USNM 16676 (1), 16677 (1), 116372 (1); [see comments about types in Vari, Howe (1991:33)].

Distribution: 208*, 209*, 210* (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

Remarks: The species is endemic to the canal area and vicinities in Panamá. It does not occur in Colombia. Records for Colombia correspond to *L. chocoensis* and *L. colombia* (pers. obs.).

Lebiasina provenzano Ardila Rodríguez, 1999

Lebiasina provenzano Ardila Rodríguez, 1999: 1, figs. unnumbered (p. 3 and 8). Type locality: Río Aponwao (Qda. Tarotá), Gran Sabana, Estado Bolívar, Venezuela. Holotype: MBUCV-V-22285.

Distribution: 308 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-

Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Remarks: Identity of species should be further investigated. It could be a junior synonym of *L. unitaeniata*.

Lebiasina taphorni Ardila Rodríguez, 2004

Lebiasina taphorni Ardila Rodríguez, 2004:58, Unnumbered figure (p. 58), plus figs. 1, 3, 5A–C, 6A, 7A. Type locality: Quebrada en medio del Río Caura, base, Estado Bolívar, Venezuela. Holotype: CAR 15-04-47.

Distribution: 308 (Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Remarks: Possibly a synonym of *Lebiasina uruyensis* Fernández-Yépez.

Lebiasina unitaeniata (Günther, 1864)

Piabucina unitaeniata Günther, 1864:311. Type locality: British Guiana. [Although the holotype of *L. unitaeniata* is listed as originating from Guyana, the similarity between that specimen and those currently recognized as *L. provenzanoi*, suggests that specimen BMNH 1988.2.16.1 was collected in the Río Aponwao, Río Caroni basin. Such proposition is supported by the fact that the Schomburgk brothers travelled throughout Guyana in the 18th century during the border dispute between Venezuela and England]. Holotype: BMNH 1988.2.16.1.

Distribution: 308 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Lebiasina uruyensis Fernández-Yépez, 1967

Lebiasina uruyensis Fernández-Yépez, 1967:173, Pl. 5. Type locality: Río Uruyén medio. [Specimen from Gran Sabana in the Auyantepui region, Venezuela]. Holotype: MHNLS 789.

Distribution: 308 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Remarks: Specimens originating from Roraima Brazil, have been documented, but not preserved, and locality is imprecise “near border with Venezuela” (AL Netto-Ferreira, pers. obs.).

Lebiasina yepazi Netto-Ferreira, Oyakawa, Zuanon, Nolasco, 2011

Lebiasina yepazi Netto-Ferreira, Oyakawa, Zuanon, Nolasco, 2011:767, figs. 1, 2b, 3. Type locality: Brazil, Amazonas State, upper rio Negro drainage, rio Marari, tributary of rio Padauari, at basecamp between 700 and 1000 m elev., upstream to Missão Marari of Yanomami Village, Serra Tapirapecó, 1°12'26"N, 64°47'18"W. Holotype: MNRJ 39067.

Distribution: 308, 314, 315 (Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

Remarks: The species is endemic to Brazil and Venezuela, and does not occur in Colombia.

Lebiasina yuruaniensis Ardila Rodríguez, 2000

Lebiasina yuruaniensis Ardila Rodríguez, 2000:1, figs. Unnumbered (p. 3, 8 and 11). Type locality: Río Yuruaní, Gran Sabana, Estado Bolívar, Venezuela. Holotype: MHNLS 7469. [Holotype not found by the author in April, 2012 during visit to the MHNLS collection].

Distribution: 308 (Weitzman, Weitzman, 2003; Netto-Ferreira *et al.*, 2011; Netto-Ferreira, 2012; Netto-Ferreira *et al.*, 2013).

NANNOSTOMUS Günther, 1872

MMF Marinho

Nannostomus Günther, 1872b:146. Type species: *Nannostomus beckfordi* Günther, 1872. Type by monotypy. Gender: Masculine.

Archicheir Eigenmann, 1909a:46. Type species: *Archicheir minutus* Eigenmann, 1909. Type by monotypy. Gender: Feminine.

Poecilobrycon Eigenmann, 1909a:43. Type species: *Poecilobrycon harrisoni* Eigenmann, 1909. Type by original designation. Gender: Masculine.

Nannobrycon Hoedeman, 1950a:15, 22. Type species: *Nannostomus eques* Steindachner, 1876. Type by original designation. Gender: Masculine.

Nannostomus anduzei Fernandez, Weitzman, 1987

Nannostomus anduzei Fernandez, Weitzman, 1987:165, figs. 1–7. Type locality: Venezuela, Territorio Federal de Amazonas, Departamento de Ature, Laguna Provincial, approximately 20 km north of Puerto Ayacucho, about 55°50'N, 67°30'W. Holotype: MBUCV-V-15141.

Distribution: 307, 314 (Fernandez, Weitzman, 1987).

Nannostomus beckfordi Günther, 1872

Nannostomus beckfordi Günther, 1872b:146. Type locality: gefangen. [Coast of Demerara, Guyana]. Holotype: BMNH 1871.12.28.10. [Picture of the holotype in Weitzman, Cobb (1975: fig. 11)].

Nannostomus anomalus Steindachner, 1876c:129 [81]. Type locality: Mündung des Rio negro; Amazonenstromes bei Obidos. [Mouth of rio Negro and rio Amazonas at Óbidos]. Syntypes: (several) not found at NMW. Status of species taken from Weitzman (1966).

Nannostomus simplex Eigenmann, 1909a:42. Type locality: Lama Stop-Off, Guyana. [Lama Stop-Off, coastal basin, about twenty-five miles east of Georgetown, Guyana (Pavanelli *et al.*, 2003)]. Holotype: FMNH 52773. Status of species taken from Weitzman (1966).

Nannostomus aripirangensis Meinken, 1931:553, fig. Type locality: Unterwasservegetation auf der Insel Aripiranga im unteren Amazonas. [Northeast of Belém, Pará, Brazil]. Neotype: ZMB 33973. Syntypes: destroyed during WWII. [Neotype designated by Zarske (2011d). Picture and X-ray image of the neotype provided by Zarske (2012b: figs. 106 b, c)]. Status of species discussed by Weitzman (1966) and Zarske (2011d).

Nannostomus beckfordi surinami Hoedeman, 1954:84. Type locality: Berg en Dal at Surinam River, Surinam [Suriname]. Holotype: ZMA 100514a. Status of species taken from Weitzman (1966).

Distribution: 310, 311, 323, 316 (Weitzman, Weitzman, 1982).

Remarks: Redescription by Weitzman (1966). Most updated identification key in Weitzman (1978). *Nannostomus beckfordi* is probably introduced in rio Jaguaribe, Salvador, and rios Capivara and Tambaí, Camaçari, Bahia (P. Camelier, pers. obs.), baía de Guanabara, Rio de Janeiro (Bizerril, Lima, 2001) and coastal drainages of São Paulo State at Bertioga (B. Abreu, pers. obs.) and Itanhaém (pers. obs.).

Nannostomus bifasciatus Hoedeman, 1954

Nannostomus bifasciatus Hoedeman, 1954:85, fig. Type locality: Berg en Dal at Surinam River, Surinam. Holotype: ZMA 100513 (apparently lost).

Distribution: 311 (Weitzman, Weitzman, 1982).

Remarks: Redescription by Weitzman (1966). Most updated identification key in Weitzman (1978).

Nannostomus britskii Weitzman, 1978

Nannostomus britskii Weitzman, 1978:5, figs. 3–4. Type locality: Brazil, State of Amazonas, an igarapé of Lago José-Açú, Parintins, Amazon River. Holotype: MZUSP 7795.

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: Due to a printer error, the correct distribution data of *Nannostomus britskii* given by Weitzman, Weitzman (1982) is on fig. 22.12 (represented by black triangles), not fig. 22.13 (Weitzman, Weitzman, 2003).

Nannostomus digrammus (Fowler, 1913)

Poecilobrycon digrammus Fowler, 1913b:525, fig. 5. Type locality: Madeira River, about 200 miles east of W. Long. 62° 20', Brazil. Holotype: ANSP 39189.

Distribution: 309, 310, 314, 315, 316, 318, 319, 321 (Weitzman, 1966; Weitzman, Weitzman, 2003; Marinho, Netto-Ferreira, 2013).

Remarks: Taxonomic review by Weitzman (1966), Weitzman, Cobb (1975). Most updated identification key in Weitzman (1978).

Nannostomus eques Steindachner, 1876

Nannostomus eques Steindachner, 1876c:126 [78], Pl. 9 (fig. 3). Type locality: Amazenenstrome anf peruanischem gebiete oberhalb Tabatinga. [Peruvian Amazon above Tabatinga]. Syntypes: (several) NMW 56513 (5).

Poecilobrycon auratus Eigenmann, 1909a:43. Type locality: Konawaruk. [Konawaruk river, tributary of Essequibo, Guyana]. Holotype: FMNH 52768. Status of species discussed by Weitzman (1966).

Distribution: 307, 308, 309, 310, 314, 316, 321, 323, 324* (Weitzman, 1966; Weitzman, Weitzman, 1982; MMF Marinho, pers. obs.).

Remarks: Taxonomic review by Weitzman (1966), Weitzman, Cobb (1975). Most updated identification key in Weitzman (1978). Due to a printer error, the correct distribution data given by Weitzman, Weitzman (1982) is on fig. 22.12 (represented by black discs), not fig. 22.13 (Weitzman, Weitzman, 2003).

Nannostomus erythrurus (Eigenmann, 1909)

Poecilobrycon erythrurus Eigenmann, 1909a:44. Type locality: Rockstone, sandbank, Guyana. Holotype: FMNH 52774.

Distribution: 310 (Eigenmann, 1909a)

Remarks: Revalidated by Zarske, 2013, however validity should be further evaluated.

Nannostomus espeii (Meinken, 1956)

Poecilobrycon espeii Meinken, 1956:31, figure. Type locality: not given. [Type locality was inferred by Böhlke (1956) as a locality along the Paruma river, a tributary of the Kamarang river, Mazaruni river basin, apparently in the vicinity of 5° 50' to 55'N, 61° 05' to 10°W, which would be the collecting site the original aquarium imports of this species. See also Weitzman (1966)]. Lectotype: SU 51593. [Designated by Weitzman (1966)].

Distribution: 310 (Weitzman, 1966; Weitzman, Cobb, 1975).

Nannostomus grandis Zarske, 2011

Nannostomus grandis Zarske, 2011d:285, figs. 1–3, 10–14. Type locality: Import Firma Glaser aus Belem, Para, Brasilien. Holotype: MTD F 32459.

Distribution: Unknown

Remarks: Aquarium specimens of unknown locality. Possibly synonym of *Nannostomus beckfordi*. A taxonomic revision is necessary to clarify the limits of both taxa.

Nannostomus harrisoni (Eigenmann, 1909)

Poecilobrycon harrisoni Eigenmann, 1909a:43. Type locality: Canal at Christianburg, Guyana. [Canal at Christianburg, Demerara River, Guyana (Weitzman, Cobb, 1975)]. Holotype: FMNH 52767.

Archicheir minutus Eigenmann, 1909a:46. Type locality: Canal at Christianburg, Guyana. [Canal at Christianburg, Demerara River, Guyana (Weitzman, Cobb, 1975)]. Holotype: FMNH 52786. Status of species taken from Weitzman (1966).

Nannostomus cumuni Arnold, 1950:72. Type locality: Unknown. No type specimen. Questionably a synonym of *Nannostomus harrisoni* (Eigenmann, 1909) (Weitzman, 1966:38).

Distribution: 311 (Weitzman, Weitzman, 2003).

Remarks: Weitzman (1966:41) formally placed *Archicheir minutus* Eigenmann, 1909 as synonym of *Nannostomus harrisoni* (Eigenmann, 1909) which constitutes a first reviser action. Developmental color variation documented by Weitzman, Cobb (1975). Most updated identification key in Weitzman (1978).

Nannostomus limatus Weitzman, 1978

Nannostomus limatus Weitzman, 1978:9, figs. 6–8. Type locality: Brazil, State of Pará, an igarapé tributary to Lago Mapará, near Santarém, Amazon River. Holotype: MZUSP 8486.

Distribution: 316 (Weitzman, 1978).

Nannostomus marginatus Eigenmann, 1909

Nannostomus marginatus Eigenmann, 1909a:41. Type locality: Muduni Creek, Guyana. [Muduni Creek, Mahaica river, Guyana]. Holotype: FMNH 53550.

Nannostomus marginatus picturatus Hoedeman, 1954:87. Type locality: A ditch near Zanderij II, Surinam [Suriname]. Holotype: ZMA 100324a. Status of species discussed by Weitzman (1966).

Distribution: 308, 310, 311, 313, 314, 316 (Weitzman, Weitzman, 1982).

Remarks: Redescription by Weitzman (1966). Most updated identification key in Weitzman (1978). The correct distribution data given by Weitzman, Weitzman (1982) is on fig. 22.10, not fig. 22.11.

Nannostomus marilynae Weitzman, Cobb, 1975

Nannostomus marilynae Weitzman, Cobb, 1975:29, figs. 28–30. Type locality: Brazil, Rio Negro, rock pools below rapids, São Gabriel. [São Gabriel da Cachoeira, Amazonas, Brazil]. Holotype: SU 50238.

Distribution: 314, 315*, 316* (Weitzman, Cobb, 1975; MMF Marinho, pers. obs.).

Nannostomus minimus Eigenmann, 1909

Nannostomus minimus Eigenmann, 1909a:42. Type locality: Erukin, Guyana. [Erukin, tributary of rio Potaro, Guyana]. Holotype: FMNH 52771.

Distribution: 310 (Weitzman, Weitzman, 1982).

Remarks: Redescription in Weitzman, Cobb (1975). Most updated identification key in Weitzman (1978).

Nannostomus mortenthaleri Paepke, Arendt, 2001

Nannostomus marginatus mortenthaleri Paepke, Arendt, 2001:144, figs. 1–6, 10–13, 15.

Type locality: Peru, Departamento of Loreto, province of Maynas (previously the province of Iquitos), administrative district of Santa Maria, small tributary of Rio Nanay at the village of Alvarenga (before Puerto Alianza), about 130 km (air distance) west of Iquitos, 74°25'40"W, 3°31'10"S. Holotype: MUSM 17719.

Distribution: 316 (Paepke, Arendt, 2001).

Nannostomus nigrotaeniatus Zarske, 2013

Nannostomus nigrotaeniatus Zarske, 2013:127, figs. 1–8, plate 1 a, b. Type locality: Venezuela, río Ventuari, Import Firma Glaser. [Aquarium fishes, imported]. Holotype: MTD F 32993.

Distribution: 308 (Zarske, 2013).

Nannostomus nitidus Weitzman, 1978

Nannostomus nitidus Weitzman, 1978:3, figs. 1–2. Type locality: Brazil, State of Pará, Igarapé Candiru–Mirim near Badajós, Rio Capim. Holotype: MZUSP 12920.

Distribution: 315*, 323 (Weitzman, Weitzman, 1982; MMF Marinho, pers. obs.).

Remarks: Most updated identification key in Weitzman (1978). Distribution map in fig. 22.9 of Weitzman, Weitzman (1982). Similarity between *Nannostomus nitidus* and *N. limatus* is discussed in Weitzman, Weitzman (2003).

Nannostomus rubrocaudatus Zarske, 2009

Nannostomus rubrocaudatus Zarske, 2009:12, figs. 1–6, 12a–b. Type locality: Import Firma Glaser. [Aquarium fishes, said to be from Peru. Probably Saramirisa, at the banks of the Marañon, between the rivers Morona and Santiago, Loreto, Peru (Zarske, 2009)]. Holotype: MTD F 31562.

Distribution: 316 (Zarske, 2009).

Nannostomus trifasciatus Steindachner, 1876

Nannostomus trifasciatus Steindachner, 1876c:123 [75], Pl. 9 (fig. 2). Type locality: Mündung des Rio negro; Amazonenstromes bei Tabatinga. [Mouth of rio Negro and rio Amazonas at Tabatinga, Amazonas, Brazil]. Syntypes: NMW 56522–23 (3, 5). [Picture and X-rays of three syntypes in figs 10 and 11 of Zarske (2013:124)].

Poecilobrycon erythrurus Eigenmann 1909:44. Type locality: Rockstone, sandbank, Guyana. Holotype: FMNH 52774. Status of species discussed by Weitzman (1966[[12368]])

Poecilobrycon vittatus Ahl 1934a:124. Type locality: Para. [Pará, Brazil]. Syntypes: ZMB 20791 (5). [Picture and X-ray of one syntype provided by Zarske (2012b: figs. 110 a, b)]. Status of species discussed by Weitzman (1966).

Distribution: 310, 314*, 316, 319, 323 (Weitzman, Weitzman, 1982; MMF Marinho, pers. obs.).

Remarks: Most updated identification key in Weitzman (1978). Due to a printer error, the correct distribution data given by Weitzman, Weitzman (1982) is on fig. 22.13. not fig. 22.10 (Weitzman, Weitzman, 2003).

Nannostomus unifasciatus Steindachner, 1876

Nannostomus unifasciatus Steindachner, 1876c:127 [79], Pl. 9 (fig. 1). Type locality: Mündung des Rio negro in kleinen Ausständen und Nebenarmen. [Mouth of Rio Negro at small stream, Brazil]. Syntypes: (several) NMW 56514 (4), 58741 (3).

Poecilobrycon ocellatus Eigenmann, 1909a:45. Type locality: Wismar, Guyana. [Wismar, Demerara, Guyana]. Holotype: FMNH 52975. Status of species discussed by Weitzman (1966).

Distribution: 310, 314, 316, 321 (Weitzman, Weitzman, 1982; Marinho, Netto-Ferreira, 2013).

Remarks: Most updated identification key in Weitzman (1978). The correct distribution data given by Weitzman, Weitzman (1982) is on fig. 22.11, neither fig. 22.12 nor fig. 22.13 (Weitzman, Weitzman, 2003) indicate the correct distribution.

Species inquirenda (Nannostomus)

Cyprinodon amazona Eigenmann, 1894:627. Type locality: Lower Amazonas. [Brazil]. Syntypes: CAS 29351 (5); BMNH 1894.5.18.52 (1). [Description based on 18 specimens (syntypes). Weitzman (1966:28) mentioned that types were not located at that time. Six specimens assigned as syntypes are currently deposited at CAS and BMNH].

Remarks: Most likely a synonym of either *Nannostomus trifasciatus* Steindachner 1876 or *N. marginatus* Eigenmann, 1909 (Weitzman, 1966:27).

PYRRHULINA Valenciennes, 1846

AL Netto-Ferreira

Pyrrhulina Valenciennes, in Cuvier, Valenciennes, 1846:535. Type species: *Pyrrhulina filamentosa* Valenciennes, 1847. Type by monotypy. Gender: Feminine.

Holotaxis Cope, 1870:563. Type species: *Holotaxis melanostomus* Cope, 1870. Type by monotypy. Gender: Feminine.

Pyrrhulina australis Eigenmann, Kennedy, 1903

Pyrrhulina australe Eigenmann, Kennedy, 1903:508. Type locality: Arroyo Trementina. [Arroyo Trementina, Concepción, Paraguay (near 23°4'2"S, 57°3'1"W)]. Holotype: CAS 60490.

Pyrrhulina macrolepis Ahl, Schindler, 1937:140. Type locality: San José, Rio Picomayo; Gob. Formosa, Argentinien. [Rio Picomayo = Rio Pilcomayo, representing the northwestern border of Argentina, separating it from Bolivia and Paraguay in the Provinces of Salta and Formosa. San José is likely a toponym in the Parque Nacional Rio Pilcomayo. A gazetteer indicates San José as the northern edge of the Laguna Blanca (25°08'60"S, 58°08'60"W)]. Holotype: ZSM 5866 [Neumann, 2011:261 commented on discovery of holotype in ZSM collection].

Distribution: 311*, 315*, 316*, 323*, 324*, 322*, 320*, 321*, 319*, 343*, 344*, 346*, 333*, 332*, 334*, 345*, 342*, (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

Remarks: Likely a widespread species complex.

Pyrrhulina beni Pearson, 1924

Pyrrhulina beni Pearson, 1924:32. Type locality: Ivon, Village on the Lower Beni. Altitude about 500 feet. [Ivón right bank village near 11°07'50"S, 66°07'56"W, Bolivia]. Syntypes: (3) CAS 60493 (now 2), UMMZ 66489 (1).
Distribution: 318 (Weitzman, Weitzman, 2003).

Pyrrhulina brevis Steindachner, 1876

Pyrrhulina brevis Steindachner, 1876a:11 [6], Pl. 1 (figs. 3–4). Type locality: Auch diese Art fand Natterer an der Mündung des Rio negro und Prof. L. Agassiz sammelte sie während der Thayer-Expedition bei Cudajas, Tabatinga und bei Manaos im Rio negro. [Lectotype locality: “Mündung des Rio Negro” (mouth of the Rio Negro, Brazil)]. Lectotype: NMW 76177.2. [Designated by Zarske, Géry (2001b)]

Distribution: 314, 316 (Weitzman, Weitzman, 2003).

Remarks: Likely a species complex.

Pyrrhulina capim Vieira, Netto-Ferreira, 2019

Pyrrhulina capim Vieira, Netto-Ferreira, 2019:2, fig. 1. Type locality: Brazil, Pará, Bragança, rio São José, 01°07'47"S, 46°49'13"W. Holotype: UFRGS 27300.

Distribution: 323 (Vieira *et al.*, 2019).

Pyrrhulina eleanorae Fowler, 1940

Pyrrhulina eleanorae Fowler, 1940a:262, fig. 59. Type locality: Ucayali River basin, Contamana, Peru. [Contamana (07°21'02"S, 75°00'33"W)]. Holotype: ANSP 68676.

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: Possibly a junior synonym of *P. laeta* as suggested by Netto-Ferreira, Luckenbill (2017).

Pyrrhulina elongata Zarske, Géry, 2001

Pyrrhulina elongata Zarske, Géry, 2001b:16, fig. 1. Type locality: Brasilien, Para, Bach und kleiner Teich etwa 25km südwestlich von Itaituba an der Straße Itaituba–Vila Nova, Einzugsgebiet des Rio Tapajós. [Type locality estimated as 4°21'4.61"S, 56°12'3.40"W (Brazil)]. Holotype: MZUSP 52731 (missing). [Holotype lost along with “several” Characidae types during mail transfer from the MTD to the MZUSP (A. Zarske pers. comm.)].

Distribution: 316*, 320* (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

Pyrrhulina filamentosa Valenciennes, 1847

Pyrrhulina filamentosa Valenciennes, in Cuvier, Valenciennes, 1847:535, Pl. 589 [not 555]. Type locality: Surinam [Suriname]. Holotype: MNHN 0000-4408.

Distribution: 308*, 309*, 310*, 311* (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

Pyrrhulina laeta (Cope, 1872)

Holotaxis laetus Cope, 1872b:257. Type locality: Rio Ambyiacu. [Ambiguity exists concerning exact origin of specimens as listed by Cope (1872b): “small streams tributary of the Ambyiacu (river) or the river (Ambyiacu) itself.”, Peru]. Holotype: ANSP 8029. [Holotype with damaged head and fins. Fowler (1906:294, fig. 1), Böhlke (1984:118)].

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: The identity of this species has been confused with that of *P. semifasciata* since the first half of the 20th century, but the type and early illustrations of

P. laeta show no trace of a long primary stripe. Netto-Ferreira, Luckenbill (2017) suggested that the species shares with *P. eleanorae* and *P. elongate* a unique diagnostic character involving the number of scales in the dorsalmost paired series, considerably narrowing the scope of the identity of the species. Also, considering *P. eleanorae* is among the most abundant species of the genus in the Ampiyacu, it is highly plausible that both species are synonyms. The distribution of *P. laeta* is here restricted to its type locality until ongoing revisionary studies of the group are complete.

Pyrrhulina lugubris Eigenmann, 1922

Pyrrhulina lugubris Eigenmann, 1922:231, Pl. 21 (fig. 1). Type locality: Barrigón. [Puerto Barrigón, Meta, Colombia (04° 10'00"N, 73° 01'00"W), at the right bank of Río Humea]. Holotype: CAS 78888 (1 of 13).

Distribution: 307 (Weitzman, Weitzman, 2003).

Remarks: Although the species is considered widespread in the Orinoco drainage, no specimens were found in Venezuelan collections in 2012 (Netto-Ferreira, pers. obs.).

Pyrrhulina marilynae Netto-Ferreira, Marinho, 2013

Pyrrhulina marilynae Netto-Ferreira, Marinho, 2013:370, fig. 1. Type locality: Brazil, Mato Grosso, Tapurah, stream crossing MT-338 road, 62 Km to the north of Tapurah, 12° 15'29"S, 56° 38'59"W. Holotype: MCP 47420 (ex. MCP 30227).

Distribution: 320, 322 (Netto-Ferreira, Marinho, 2010).

Pyrrhulina maxima Eigenmann, Eigenmann, 1889

Pyrrhulina maxima Eigenmann, Eigenmann, 1889a:111, Pl. 1 (fig. 4). Type locality: Tabatinga. [Brazil]. Holotype: (possible) USNM 120283 (3) or in MCZ 6343 (now 11); originally given as "Type N° 6343; one specimen".

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: Possibly a synonym of *P. semifasciata*.

Pyrrhulina melanostoma (Cope, 1870)

Holotaxis melanostomus Cope, 1870:563. Type locality: Pebas, Ecuador. [currently, Peru]. Syntypes: Whereabouts unknown. [some primary types apparently lost after Cope's death (Fowler, 1907:458, fig. 47; Böhlke, 1984:119)].

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: Identity and status of this species is unclear, but original color pattern description matches that of *P. obermulleri*.

Pyrrhulina obermulleri Myers, 1926

Pyrrhulina obermulleri Myers, 1926a:150. Type locality: Iquitos, Peru. Syntypes: CAS 60498 (4).

Distribution: 316 (Weitzman, Weitzman, 2003).

Remarks: Colombian records of *P. obermulleri* are *P. lugubris*, and both species are likely synonyms (pers. obs.).

Pyrrhulina rachoviana Myers, 1926

Pyrrhulina rachoviana Myers, 1926b:441. Type locality: Herr Arthur Rachow, der wohlbekannte Hamburger Liebhaber, zwei schöne konservierte Exemplare dieser Fischart, ein ausgewachsenes Männchen und Weibchen. [Aquarists historically suggest that the type-locality is likely wrong]. Syntypes: USNM 92970 (2).

Distribution: 345 (Myers, 1926b).

Remarks: Aquarists have historically suggested that the type locality is likely wrong, and the specimens on which Myers based his description originated from the Amazon. The species was considered a synonym of *P. australis* by Zarske, Géry (2004a), but posteriorly questioned by Netto-Ferreira, Marinho, 2013:373 and Vieira, Netto-Ferreira, 2019:7. In fact, the limits between the identity of *Pyrrhulina australis* and *P. rachoviana* are very confusing, and preliminary molecular data have presented evidence that this species group, being distributed from Argentina to the Guianas, is composed of several undescribed species still. Hence, the decision to recognize the species as valid, and restricted to its supposed type locality.

***Pyrrhulina semifasciata* Steindachner, 1876**

Pyrrhulina semifasciata Steindachner, 1876a:7 [2], Pl. 1 (figs. 1–2a). Type locality: Joh. Natterer entdeckte diese Art zuerst in der Mu"ndung des Rio negro in stehenden Gewa"ssern. Wa"hrend der Thayer-Expedition wurden sehr viele Exemplare dieser Art bei Cudajas, Gurupa und Tabatinga gesammelt. [Brazil]. Syntypes: (several) ?MCZ 6317 (8) Gurupa, 6345 (1) Tabatinga, 6367 (20) Tabatinga, 6858 (25) Tabatinga; ZMUC 42 (1?) Amazonas; NMW 56975–78 (3, 2, 1, 3), 56980 (2), 56986 (1).

Distribution: 314, 315, 316, 320, 321, 322, 323* (Weitzman, Weitzman, 2003); A. Netto-Ferreira, pers. obs.).

Remarks: Likely a species complex.

***Pyrrhulina spilota* Weitzman, 1960**

Pyrrhulina spilota Weitzman, 1960c:109, fig. 1. Type locality: South America. [Possibly from the Iquitos, Peru, region]. Holotype: SU 52352.

Distribution: 316 (Weitzman, Weitzman, 2003).

***Pyrrhulina stoli* Boeseman, 1953**

Pyrrhulina stoli Boeseman, 1953:14, fig. 1d. Type locality: Marowini Basin(?). [Suriname]. Holotype: RMNH 20469.

Distribution: 309*, 310*, 311* (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

***Pyrrhulina vittata* Regan, 1912**

Pyrrhulina vittata Regan, 1912b:391. Type locality: Obidos. [Brazil]. Holotype: BMNH 1912.8.31.2.

Distribution: 316, 318, 319, 321 (Weitzman, Weitzman, 2003).

***Pyrrhulina zigzag* Zarske, Géry, 1997**

Pyrrhulina zigzag Zarske, Géry, 1997a:12, figs. 1–2. Type locality: Bach an der Stra"e von Campo-Verde nach Nueva Requena. [Type locality near 8°30'S, 74°35'W, Peru]. Holotype: MTD F17705.

Distribution: 316, 321* (Weitzman, Weitzman, 2003; A. Netto-Ferreira, pers. obs.).

PARODONTIDAE Eigenmann, 1910

CS Pavanelli

Parodontinae Eigenmann, 1910:422. Type genus: *Parodon* Valenciennes, 1850.

APAREIODON Eigenmann, 1916

Apareiodon Eigenmann, 1916b:71. Type species: *Parodon piracicabae* Eigenmann, 1907. Type by original designation. Gender: Masculine.

Apareiodon affinis (Steindachner, 1879)

Parodon affinis Steindachner, 1879d:32. Type locality: La Plata-Strome (innerhalb der Provinz Buenos-Ayres). [Argentina]. Syntypes: whereabouts unknown.

Parodon paraguayensis Eigenmann, in Eigenmann, Ogle, 1907:6. Type locality: Asuncion, Rio Paraguay. Holotype: CAS 6765.

Distribution: 332, 333, 343, 344, 345 (Pavanelli, 1999).

Apareiodon agmatos Taphorn, López-Fernández, Bernard, 2008

Apareiodon agmatos Taphorn, López-Fernández, Bernard, 2008:33, figs. 1–2. Type locality: Guyana: Mazaruni River: sandy beach on right bank, downstream from village of Kamarang (5° 56'10.1"N, 60° 36'53.8"W). Holotype: CSBD F1650.

Distribution: 310 (Taphorn *et al.*, 2008).

Apareiodon argenteus Pavanelli, Britski, 2003

Apareiodon argenteus Pavanelli, Britski, 2003:341, fig. 3. Type locality: Rio Tocantins, at Serra da Mesa, below the hydroelectric power dam; Minaçu; Goiás; Brazil. Holotype: MZUSP 52900.

Distribution: 324 (Pavanelli, Britski, 2003).

Apareiodon cavalcante Pavanelli, Britski, 2003

Apareiodon cavalcante Pavanelli, Britski, 2003:344, fig. 4. Type locality: Ribeirão do Padre, tributary on the right bank of the Rio Tocantinzinho; Cavalcante; Alto Tocantins; Brazil. Holotype: MNRJ 20093.

Distribution: 324 (Pavanelli, Britski, 2003).

Apareiodon davisii Fowler, 1941

Apareiodon davisii Fowler, 1941b:167, figs. 79–80. Type locality: Rio Jaguaribe, Russas, Ceará. [Brazil]. Holotype: ANSP 69467.

Distribution: 326 (Pavanelli, 1999).

Apareiodon gransabana Starnes, Schindler, 1993

Apareiodon gransabana Starnes, Schindler, 1993:756, fig. 1. Type locality: Venezuela, Bolívar State, Gran Sabana, Río Tarotá, tributary to Río Apongua, about 8 km S of Luepa, approximately 5° 35'N, 61° 25'W. Holotype: MBUCV-V-17000.

Distribution: 307, 308, 309, 310, 311 (Pavanelli, 1999).

Apareiodon hasemani Eigenmann, 1916

Apareiodon hasemani Eigenmann, 1916b:75, Pl. 12. Type locality: Pirapora. [Brazil]. Holotype: FMNH 57615.

Distribution: 327 (Pavanelli, 1999).

Apareiodon ibitiensis Amaral Campos, 1944

Apareiodon ibitiensis Amaral Campos, 1944a:173, figure. Type locality: Rio Camanducaia, Monte Alegre, Estado de São Paulo. [Brazil]. Holotype: MZUSP 3411.

Apareiodon mogiguaçuensis Travassos, 1952b:313, figs. 1–6. Type locality: Cachoeira do Espriado, Rio Mogi-Guaçu, 1ª Cachoeira Grande depois de Soledade, Estado de Minas Gerais. [Brazil]. Holotype: MNRJ 6240. [ex MNI 6240].

Distribution: 327, 344 (Pavanelli, 1999).

Apareiodon itapicuruensis Eigenmann, Henn, 1916

Apareiodon itapicuruensis Eigenmann, Henn, in Eigenmann, 1916b:72, Pl. 11 (fig. 2).
Type locality: Rio Paiaia, tributary of Rio Itapicurú. [Brazil]. Holotype: FMNH 56988.

Distribution: 328 (Pavanelli, 1999).

Apareiodon machrisi Travassos, 1957

Apareiodon machrisi Travassos, 1957b:147, figs. 1–3. Type locality: Ribeirão Cristalino, Fazenda Oliver, Município de Amaro Leite, Goiás. [Brazil]. Holotype: MNRJ 8932. [ex MNI 8912].

Distribution: 324 (Pavanelli, 1999).

Apareiodon piracicabae (Eigenmann, 1907)

Parodon piracicabae Eigenmann, in Eigenmann, Ogle, 1907:6. Type locality: Piracicaba. [Brazil]. Holotype: CAS 6763.

Distribution: 327, 344 (Pavanelli, 1999).

Apareiodon tigrinus Pavanelli, Britski, 2003

Apareiodon tigrinus Pavanelli, Britski, 2003:345, fig. 5. Type locality: Córrego do Jacaré, close to the bridge; Santa Rita do Araguaia; Goiás; Brazil. Holotype: MZUSP 41430.

Distribution: 324 (Pavanelli, Britski, 2003).

Apareiodon vittatus Garavello, 1977

Apareiodon vittatus Garavello, 1977:449, fig. 1. Type locality: Rio Iguaçu, Bituruna, Estado do Paraná, Brasil. Holotype: MNRJ 10481.

Distribution: 346 (Baumgartner *et al.*, 2012).

Apareiodon vladii Pavanelli, 2006

Apareiodon vladii Pavanelli, 2006:90, fig. 1. Type locality: Brazil, Paraná State, Nova Laranjeiras, Rio Piquiri, approximately 5 km from Paiquerê village, 25°01'40.9"S, 52°27'32.8"W, 455m altitude. Holotype: MZUSP 85250.

Distribution: 344 (Pavanelli, 2006).

PARODON Valenciennes, 1850

Parodon Valenciennes, in Cuvier, Valenciennes, 1850:50. Type species: *Parodon suborbitale* Valenciennes, 1850. Type by monotypy. Gender: Masculine.

Nematoparodon Fowler, 1943d:226. Type species: *Parodon apolinari* Myers, 1930. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Parodon*.

Parodon alfonsoi Londoño-Burbano, Román-Valencia, Taphorn, 2011

Parodon alfonsoi Londoño-Burbano, Román-Valencia, Taphorn, 2011:710, fig. 1. Type locality: Colombia, Cesar, Municipio La Jagua de Ibiricó, lower río Magdalena drainage, río Tucuy, tributary to the río Calenturitas, 9°37'N, 73°17'W, elevation 117 masl. Holotype: CIUA 1125.

Distribution: 302 (Londoño-Burbano *et al.*, 2011).

Parodon apolinari Myers, 1930

Parodon apolinari Myers, 1930:66. Type locality: Guaicaramo, Río Guavio, Colombia. Holotype: SU 23725.

Distribution: 307, 308 (Pavanelli, 1999).

Parodon atratoensis Londoño–Burbano, Román–Valencia, Taphorn, 2011

Parodon atratoensis Londoño–Burbano, Román–Valencia, Taphorn, 2011:715, fig. 4.

Type locality: Neguá, río Atrato drainage, upper río Neguá, 5° 15'N, 76° 49'W, Chocó, Colombia, elevation 146 meters. Holotype: ICN-MHN 17100. [(Mojica, Agudelo–Zamora (2018:26)].

Distribution: 301 (Londoño–Burbano *et al.*, 2011).

Parodon bifasciatus Eigenmann, 1912

Parodon bifasciatus Eigenmann, 1912a:274, Pl. 36 (fig. 1). Type locality: Maripicru Creek. [Guyana]. Holotype: FMNH 53582.

Distribution: 301, 315 (Pavanelli, 1999).

Parodon buckleyi Boulenger, 1887

Parodon buckleyi Boulenger, 1887b:279, Pl. 23 (fig. 1). Type locality: Canelos. [Ecuador]. Holotype: BMNH 1880.12.5.125.

Distribution: 316, 318, 321 (Pavanelli, 1999).

Parodon caliensis Boulenger, 1895

Parodon caliensis Boulenger, 1895c:480. Type locality: Cali River, near Cali, Colombia, 3200 feet. Lectotype: BMNH 1895.11.16.83. [Designated by Londoño–Burbano, Román–Valencia (2010)]. Number available via the Natural History Museum, UK website, including a picture of the handwritten catalog book].

Parodon medellinense Posada, 1909:299. Type locality: Medellín. [Colombia]. No types known.

Distribution: 302 (Pavanelli, 1999).

Parodon carrikeri Fowler, 1940

Parodon carrikeri Fowler, 1940b:47, figs. 1–2. Type locality: Salta, Argentina. [see comments in Mirande, Koerber (2015a:11)]. Holotype: ANSP 68735.

Parodon caudalis Fowler, 1940b:58, figs. 14–15. Type locality: Villa Montes, Rio Pilcomayo, Bolivia. Holotype: ANSP 68837.

Distribution: 342 (Pavanelli, 1999).

Remarks: Pavanelli (2003:48) formally placed *Parodon caudalis* Fowler, 1940 as synonym of *Parodon carrikeri* Fowler, 1940, which constitutes a first revision.

Parodon guyanensis Géry, 1960

Parodon guyanensis Géry, 1960g:481, figs. 1–2. Type locality: Guyane Française, Haute–Mana, crique Deux–Branches à la hauteur de Saut–Fini. [French Guiana]. Holotype: Géry coll. H04–20 bis–1 [paratypes at ANSP, MCZ, MNHN, USNM and ZSM].

Distribution: 308, 310, 311 (Pavanelli, 1999).

Parodon hilarii Reinhardt, 1867

Parodon hilarii Reinhardt, 1867:62, Pl. 2 (figs. 3–4). Type locality: Lille Aa en Fjerdingsvei fra Byen Lagoa Santa. [Brazil]. Holotype: ?ZMUC 9223. [ZMUC 9223 cataloged as “Near Lagoa Santa” but with date 16 March 1871, which may refer to date of accession (*vs.* collection)].

Distribution: 327 (Pavanelli, 1999).

Parodon magdalenensis Londoño–Burbano, Román–Valencia, Taphorn, 2011

Parodon magdalenensis Londoño–Burbano, Román–Valencia, Taphorn, 2011:722,

fig. 8. Type locality: Colombia, Caldas, Norcasia, middle río Magdalena drainage, río La Miel at escape tunnel, río Magdalena, 5°34'N, 74°53'W, elevation 720 masl. Holotype: ICN-MHN 17099. [(Mojica, Agudelo-Zamora (2018:26)].

Distribution: 302 (Londoño-Burbano *et al.*, 2011).

Parodon moreirai Ingenito, Buckup, 2005

Parodon moreirai Ingenito, Buckup, 2005:766, fig. 1. Type locality: Brazil, Estado de Minas Gerais, Município de Delfim Moreira, Ribeirão do Salto, at Salto near wooden bridge, 45°20'47"W, 22°26'55"S. Holotype: MNRJ 23583 [ex. MNRJ 22557].

Distribution: 344 (Ingenito, Buckup, 2005).

Parodon nasus Kner, 1859

Parodon nasus Kner, 1859:167 [31], Pl. 8 (fig.17). Type locality: Cujabaflusse. [Brazil]. Syntypes: NMW 56545 (2).

Parodon tortuosus Eigenmann, Norris, 1900:356. Type locality: Rio Tieté. [Brazil]. Holotype: CAS 6762.

Parodon gestri Boulenger, 1902a:285. Type locality: Rio Coxipo, Matto Grosso. [Brazil]. Holotype: MSNG 14863.

Apareiodon pirassunungae Amaral Campos, 1945a:442, fig. 8. Type locality: Rio Mogi Guaçu, Pirassununga, Cachoeira. [Brazil]. Holotype: MZUSP 3469.

Distribution: 344, 344, 345 (Pavanelli, 1999).

Parodon orinocensis (Bonilla, Machado-Allison, Silvera, Chernoff, López, Lasso, 1999)

Apareiodon orinocensis Bonilla, Machado-Allison, Silvera, Chernoff, López, Lasso, 1999:2, figs. 1–2. Type locality: Raudal Dimoshi, Río Tabaro, BO. [Venezuela]. Holotype: MBUCV-V-29170.

Distribution: 307, 308, 309 (Bonilla *et al.*, 1999).

Remarks: New combination proposed by Ingenito *et al.* (2012).

Parodon pongoensis (Allen, 1942)

Apareiodon pongoense Allen, in Eigenmann, Allen, 1942:286, Pl. 14 (fig. 7). Type locality: Forest brook, foothills at Pongo de Manseriche. [Peru]. Holotype: CAS 6757.

Apareiodon caquetae Fowler, 1945c:106, fig. 6. Type locality: Morelia, Rio Caquetá drainage, Colombia. Holotype: ANSP 71696 (with paratypes).

Distribution: 313, 316, 322, 324 (Pavanelli, 1999).

Parodon suborbitalis Valenciennes, 1850

Parodon suborbitale Valenciennes, in Cuvier, Valenciennes, 1850:51, Pl. 637. Type locality: Rivières de Maracaïbo. [Venezuela]. Lectotype: MNHN 0000-1807. [Designated by Londoño-Burbano *et al.* (2011:725)].

Distribution: 303 (Londoño-Burbano *et al.*, 2011).

SACCODON Kner, 1863

Saccodon Kner, 1863:225. Type species: *Saccodon wagneri* Kner, 1863. Type by monotypy. Gender: Masculine.

Parodontops Schultz, Miles, 1943:251. Type species: *Parodon ecuadoriensis* Eigenmann, Henn, 1914. Type by original designation. Gender: Masculine.

Saccodon dariensis (Meek, Hildebrand, 1913)

Parodon dariensis Meek, Hildebrand, 1913:83. Type locality: Rio Cupe, Cituro, Panama. Holotype: FMNH 7587.

Apareiodon compressus Breder, 1925:4, figs. 3, 4B. Type locality: Rio Turquesa, Darien, Panama. Holotype: AMNH 8408.

Saccodon caucae Schultz, Miles, 1943:252, figs. 1–2. Type locality: Upper Río Cauca north of Cali, Colombia. Holotype: USNM 121285.

Apareiodon brevipinnis Dahl, 1971:117, unnumbered figure. Type locality: Río Verde, afluyente del Río Sinú. [Colombia]. Holotype: whereabouts unknown.

Distribution: 301, 302 (also in Panama) (Pavanelli, Starnes, 2015).

Saccodon terminalis (Eigenmann, Henn, 1914)

Parodon terminalis Eigenmann, in Eigenmann, Henn, Wilson, 1914:12. Type locality: Vinces, river and forest pools. [Ecuador]. Holotype: FMNH 56599.

Distribution: 301 (Pavanelli, Starnes, 2015).

Saccodon wagneri Kner, 1863

Sacc. Wagneri Kner, 1863:225, “fig. 10” (unpublished). Type locality: Aus dem Staate Ecuador. Holotype: ZSM 210 [old collection] destroyed in WWII. [Apparently destroyed in Munich in WWII (Neumann, 2006:277–278)].

Saccodon cranocephalum Thominot, 1882:248 [1], Unnumbered pl. Type locality: Rio Guayaquil. [Ecuador]. Syntypes: MNHN 0000–2503 (3, now 1), B–2996 (1); USNM 150431 (1).

Parodon ecuadoriensis Eigenmann, Henn, in Eigenmann, Henn, Wilson, 1914:12. Type locality: River and forest pools, Vinces, Ecuador. Holotype: FMNH 56597.

Distribution: 301 (Pavanelli, Starnes, 2015).

PROCHILODONTIDAE Eigenmann, 1909

RMC Castro

Pacini Bleeker, 1859: XXXII. Type genus: *Pacu* Agassiz in Spix, Agassiz, 1829.

Prochilodinae Eigenmann, 1909b:253. Type genus: *Prochilodus* Agassiz, 1829. Additional comments: Eigenmann (1909b:253) misspelled Prochilodinae. Stem corrected to Prochilodont- by Regan (1911:21). Name in prevailing recent practice.

ICHTHYOELEPHAS Posada, 1909

Ichthyoelephas Posada, 1909:300. Type species: *Ichthyoelephas patalo* Posada, 1909. Type by monotypy. Gender: Masculine.

Ichthyoelephas humeralis (Günther, 1860)

Prochilodus humeralis Günther, 1860a:419. Type locality: Western Andes of Ecuador. [Types series most likely from Río Gayas basin (Castro, Vari, 2003b:76)].

Lectotype: BMNH 1860.6.16.197. [Designated by Castro, Vari (2003b:76)].

Distribution: 301 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Ichthyoelephas longirostris (Steindachner, 1879)

Prochilodus longirostris Steindachner, 1879c:195. Type locality: Cauca. [Restricted by Castro, Vari (2003b:73–74) to Colombia, Antioquia, Río Cauca, near to Cáceres]. Lectotype: NMW 56680. [Designated by Castro, Vari (2003b:79)].

Ichthyoelephas pataló Posada, 1909:302, 2 text-figs. on 301. Type locality: Colombia, Samaná. [Río Samaná, a tributary of the Río Magdalena drainage system in northwestern Colombia]. No types known.

Ichthyoelephas longirostris neglectus Dahl, 1971:108. Type locality: Colombia, ciertas ciénegas adyacentes al Bajo Río Magdalena, desde la Ciénega de Plata hacia abajo. No types known. [Dahl (1971:108–109) proposed *Ichthyoelephas longirostris neglectus* based on three specimens (holotype, 172.0 mm SL, and 2 paratypes, 210.0–213.0 mm SL) that originated from ciénegas (floodplain pools and marshes) adjacent to the lower Río Magdalena, Colombia. Dahl did not illustrate his new form and the type series of that subspecies does not appear to be extant (Cala, 1981:1–3)].

Distribution: 302, 304 (Román-Valencia, Ortiz-Muñoz, 2001:35; Castro, Vari, 2003a; Castro, Vari, 2003:79).

PROCHILODUS Agassiz, 1829

Pacu Cuvier, 1829:309. Type species: *Prochilodus argenteus* Agassiz, 1829. Type by subsequent designation by Eigenmann (1910:424). Gender: Masculine.

Prochilodus Agassiz, in Spix, Agassiz, 1829:57, 62. Type species: *Prochilodus argenteus* Agassiz, in Spix, Agassiz, 1829. Type by subsequent designation by Eigenmann, 1910:424. Gender: Masculine.

Pacu Agassiz, in Spix and Agassiz, 1829:62. Type species: *Prochilodus argenteus* Agassiz, in Spix, Agassiz, 1829, by subsequent designation (Eigenmann, 1910:424)]. Gender masculine. Additional comments: *Paca* in Valenciennes (1837: Pl. 8, gif. 3) was interpreted as a misspelling of *Pacu* Agassiz, by Castro, Vari (2003a, b)

Pacu Valenciennes, 1847:9. Type species: *Pacu lineatus* Valenciennes, 1847. Type by monotypy. Gender: Masculine.

Chilomyzon Fowler, 1906:309. Type species: *Prochilodus steindachneri* Fowler, 1906. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Prochilodus*. Remarks: See Kottelat (1988:82) for an interpretation of the status *Prochilodus* Agassiz, *Pacu* Agassiz and *Pacu* Cuvier.

Prochilodus argenteus Agassiz, 1829

Prochilodus argenteus Agassiz, in Spix, Agassiz, 1829:63, Pl. 38. Type locality: Habitat in flumine S. Francisci. [Restricted by Castro, Vari (2003b:85) to Brazil, Minas Gerais, Januária, Rio São Francisco. Neotype locality: Brazil, Bahia, Rio Desidério, São Desidério, near Barreiras]. Neotype: MZUSP 28778. [Neotype designated by Castro, Vari (2003b:88)].

Distribution: 326i, 327 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Remarks: *Prochilodus argenteus* Valenciennes in Cuvier, Valenciennes, 1850:71, apparently does not constitute an original description (Fricke *et al.*, 2022).

Prochilodus brevis Steindachner, 1875

Prochilodus brevis Steindachner, 1875a:536 [page 38 of separate], Pl. 6. Type locality: Flüsse in der Umgebung von Bahia. [Restricted by Castro, Vari (2003b:89) to Brazil, Bahia, basin of Rio Paraguaçu]. Lectotype: NMW 56638. [Designated by Castro, Vari (2003b:93)].

Prochilodus cearaensis Steindachner, 1911a:329. Type locality: Einem kleinen Flusschen bei Ipú im Staate Ceará. [From a small river in Ipú, Ceará, Brazil]. Lectotype: NMW 56640:2. [Designated by Castro, Vari (2003b:93)].

Distribution: 326, 327, 328 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus britskii Castro, 1993

Prochilodus britskii Castro, 1993:58, fig. 1. Type locality: Brazil, Mato Grosso, rio Apiacá, N of city of Juará, upriver from a fall (~ 10°36'S, 58°04'W). Holotype: MZUSP 41519.

Distribution: 320 (Castro, 1993; Castro, Vari, 2003a; Castro, Vari, 2003b).

Remarks: The known distribution of *Prochilodus britskii* is the most restrictive of any *Prochilodus* species.

Prochilodus costatus Valenciennes, 1850

Prochilodus costatus Valenciennes, in Cuvier, Valenciennes, 1850:79. Type locality: Rio San-Francisco du Brésil. [Brazil]. Holotype: MNHN A-8636 (dry). [Holotype stuffed with straw and varnished, with a midventral incision running from isthmus to base of caudal fin and artificial eyes inserted].

Prochilodus affinis Lütken, 1875c:128 [page 2 of separate]. Type locality: Rio das Velhas et rivulis affluentibus. [Restricted by Fowler (1950:215) to Brazil, Minas Gerais, Rio das Velhas]. Lectotype: ZMUC 81. [Designated by Castro, Vari (2003b:99)].

Distribution: 327, 328i (Godinho *et al.*, 1999; Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus hartii Steindachner, 1875

Prochilodus hartii Steindachner, 1875a:533 [page 35 of separate], Pl. 5. Type locality: Rio Jequitinhonha, Rio Pardo und Rio Parahyba. [Restricted by Castro, Vari (2003b:101) to Brazil, Bahia, Rio Jequitinhonha, Belmonte]. Lectotype: NMW 56645. [Designated by Castro, Vari (2003b:103)].

Distribution: 328 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus lacustris Steindachner, 1907

Prochilodus lacustris Steindachner, 1907a:152 [page 1 of separate]. Type locality: See von Parnagua unde der nahegelegenen, Lagoa da Missão; Lagoas bei Sa. Filomena und am Rio Medonho einem Nebenflusse des Parnahyba. [Brazil]. Lectotype: NMW 56674:4. [Designated by Castro, Vari (2003b:106)].

Distribution: 323, 325 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus lineatus (Valenciennes, 1837)

Paca lineatus Valenciennes, 1837:no p., Pl. 8 (fig. 3). Type locality: La rivière de la Plata à Buéno-Ayres. [Detailed by Valenciennes in Cuvier, Valenciennes (1850:84)]. No types known.

Prochilodus scrofa Steindachner, 1881a:129 [page 29 of separate], Pl. 6 (fig. 2). Type locality: Umgebung von Rio Janeiro, vielleicht aus dem Rio Parahyba. [Restricted by Castro, Vari (2003b:107) to Brazil, Rio de Janeiro, Rio Paraíba do

Sul]. Lectotype: NMW 56702. [Designated by Castro, Vari (2003b:111)].

Prochilodus platensis Holmberg, 1888:898. Type locality: Río de La Plata, Buenos Ayres. [Argentina]. No types known. Taxonomic status of species discussed in Castro, Vari (2003b:107).

Salmo 9-radiatus Larrañaga, 1923:387. Type locality: Nimis communisin et copiosissimus in hoc fluminae. [Almost certainly part of the Río Uruguay basin, Uruguay]. No types known. Taxonomic status of species discussed in Castro, Vari (2003b:112).

Distribution: 329, 332, 334, 339, 342, 343, 344, 345, 347 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus magdalenae Steindachner, 1879

Prochilodus asper var. *magdalenae* Steindachner, 1879e:78 (page 62 of separate), Pl. 12 (figs. 1 and 1a) [name used in caption for two figures but species is cited on page 35 of text as *Prochilodus asper*]. Type locality: Magdalenen-Strome. [Colombia]. Lectotype: NMW 56627:1. [Designated by Castro, Vari (2003b:117)].

Prochilodus beani Eigenmann, in Eigenmann, Ogle, 1907:5, fig. 2. Type locality: Truando, Colombia. [Truandó, in the Río Atrato basin of northwestern Colombia]. Holotype: USNM 1662.

Prochilodus steindachneri Eigenmann, 1922:115. Type locality: Cauca near Cáceres. [Colombia, Antioquia, Río Cauca, close to Cáceres]. Holotype: NMW 68274. [(218,9 mm SL) with moderately large perforations on both flanks, but otherwise in good condition]. Preoccupied by *Prochilodus steindachneri* Fowler, 1906; replaced by *Prochilodus eigenmanni* Ahl, 1937. Details discussed in Castro, Vari (2003b:117).

Prochilodus eigenmanni Ahl, 1937c:136. Type locality: Cauca near Cáceres. Holotype: NMW 68274. Replacement for *Prochilodus steindachneri* Eigenmann, 1922 (see discussion in Castro, Vari (2003b:117–118)).

Distribution: 301, 302, 303 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Remarks: The name *Prochilodus magdalenensis* in Posada, 1909:300 was considered an unjustified emendation by Castro, Vari, 2003b:114.

Prochilodus mariae Eigenmann, 1922

Prochilodus mariae Eigenmann, 1922:231, Pl. 20 (fig. 2). Type locality: Barrigón, Río Meta. [Colombia]. Holotype: CAS 15150.

Distribution: 306, 307, 308, 309 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus nigricans Agassiz, 1829

Prochilodus nigricans Agassiz, in Spix, Agassiz, 1829:64, Pl. 39. Type locality: Habitat in Brasiliae mediae fluviss. [Restricted by Castro, Vari (2003b:123) to Brazil, Amazonia]. Neotype: MZUSP 21575. [Neotype designated by Castro, Vari (2003b:128)].

Prochilodus cephalotes Cope, 1878:686. Type locality: Peruvian Amazon. [Restricted by Fowler (1950:217) to Peru, Loreto, Nauta, confluence of rios Marañon and Ucayali]. Holotype: ANSP 21211. [Holotype in very poor condition, almost without scales, with superficial bones almost loose; Fowler (1906:312, fig. 13); Böhlke (1984:148); Castro, Vari (2003b:125)].

Prochilodus ortonianus Cope, 1878:685. Type locality: Nauta, Peru. Holotype: ANSP 21267. [Holotype in very good condition; Fowler (1906:311, fig. 12); Böhlke

(1984:148); Castro, Vari (2003b:125)].

Prochilodus caudifasciatus Starks, 1906:773, fig. 5. Type locality: Rio Perené at Perené, Peru. Holotype: USNM 53473.

Curimatus tigris Fowler, 1913b:518, fig. 2. Type locality: Tributary of the Madeira River, near Porto Velho, Brazil. Holotype: ANSP 39156. [Specimen in moderate condition]. Taxonomic status discussed in Castro, Vari (2003b:129).

Prochilodus beni Pearson, 1924:29, Pl. 9 (fig. 2). Type locality: Cachuela Esperanza. [Bolivia]. Holotype: CAS 58881. [Details in Castro, Vari (2003b:124)].

Prochilodus labeo Loubens, Lauzanne, Géry, 1991:231, fig. 8. Type locality: Villa Tunari, Rio Chaparé, bassin de Mamore, Bolívia. Holotype: MNHN 1989-120. Distribution: 313, 316, 318, 319, 320, 321, 322, 323, 324 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Remarks: Author of species name is Agassiz according to Kottelat (1988); followed by Castro, Vari, 2003a; Castro, Vari, 2003b.

Prochilodus reticulatus Valenciennes, 1850

Prochilodus reticulatus Valenciennes, in Cuvier, Valenciennes, 1850:92. Type locality: lagune de Maracaïbo. [Venezuela]. Lectotype: MNHN A. 8639. [Designated by Castro, Vari (2003:135)].

Prochilodus asper Lütken, 1875a:226 [page 37 of separate]. Type locality: Caraccas. [Caracas, Distrito Federal, Venezuela. Restricted by Castro, Vari (2003b:132) to Venezuela, Lago Maracaibo]. Lectotype: ZMUC 73. [Designated by Castro, Vari (2003b:135)].

Distribution: 303 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus rubrotaeniatus Jardine, 1841

Prochilodus rubrotaeniatus Jardine, in Schomburgk, 1841:258, Pl. 28. Type locality: Rios Branco and Negro as in the Essequibo and its tributaries. [Restricted by Castro, Vari (2003b:136) to Rio Branco, Brazil and Essequibo River, Guyana]. No types known. [It is likely that no types are extant for *Prochilodus rubrotaeniatus*, a situation that parallels that for other species collected by Schomburgk and described by Jardine].

Prochilodus maripicru Eigenmann, 1912a:271, Pl. 35 (fig. 2). Type locality: Maripicru Creek. [Type specimens originated in the Ireng River of Guyana, a tributary of the upper Rio Branco of the Amazon basin]. Holotype: FMNH 53597.

Distribution: 308, 310, 311, 314 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Prochilodus vimboides Kner, 1859

Prochilodus vimboides Kner, 1859:148 [page 12 of separate], Pl. 2 (fig. 4). Type locality: Ypanema. [Restricted by Castro, Vari (2003b:140) to São Paulo, Ipanema (Varnhagen), Rio Sorocaba basin]. Lectotype: NMW 79466 (dry). [Designated by Castro, Vari (2003b:143)].

Salmo corimbata Natterer, in Kner, 1859:146 [page 10 of separate]. Type locality: Ypanema. [Brazil. São Paulo, Varnhagen (= Ypanema), Rio Sorocaba basin]. No types known. Taxonomic status of species discussed in Castro, Vari (2003b:143).

Prochilodus oligolepis Günther, 1864:295. Type locality: Brazil. [Restricted by Castro, Vari (2003b:140) to Brazil, São Paulo, Ipanema (Varnhagen), Rio Sorocaba basin]. Lectotype: NMW 56694. [Designated by Castro, Vari (2003b:143)].

Prochilodus steindachneri Fowler, 1906:309, fig. 11. Type locality: Parahyba, Brazil.

[Rio Paraíba do Sul of southeastern Brazil (see explanation in Castro, Vari, 2003b:143)]. Holotype: ANSP 8207.

Distribution: 327, 328, 329, 344 (Castro, Vari, 2003a; Castro, Vari, 2003b).

SEMAPROCHILODUS Fowler, 1941

Semaprochilodus Fowler, 1941b:171. Type species: *Semaprochilodus squamilentus* Fowler, 1941. Type by original designation. Gender: Masculine.

Semaprochilodus brama (Valenciennes, 1850)

Prochilodus brama Valenciennes, in Cuvier, Valenciennes, 1850:82. Type locality: l'Amazone. [Restricted by Castro, Vari (2003b:147) to Brazil, Pará, Rio Tocantins, São João do Araguaia (São João das Duas Barras)]. Holotype: MNHN A. 1066. [Details in Castro, Vari (2003b:151)].

Semaprochilodus squamilentus Fowler, 1941b:172, fig. 83. Type locality: Rio Parnaíba, Therezina, Piauí. [Corrected by Castro, Vari (2003b:147) to Brazil, rios Tocantins and/or Xingu]. Holotype: ANSP 69480.

Distribution: 322, 323, 324 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Semaprochilodus insignis (Jardine, 1841)

Prochilodus insignis Jardine, in Schomburgk, 1841:261, Pl. 30. Type locality: Rio Branco. No types known. [It is likely that no types are extant for *Prochilodus insignis*, a situation that parallels that for other species collected by Schomburgk and described by Jardine].

Salmo jaraqui Natterer, in Kner, 1859:148 [page 12 of separate]. Type locality: Barra do Rio Negro. [Brazil]. No types known. Taxonomic status of species discussed in Castro, Vari (2003b:157).

Prochilodus amazonensis Fowler, 1906:316, fig. 15. Type locality: Lower Amazons. [Brazil]. Holotype: ANSP 21350. [Holotype in moderate condition].

Prochilodus theraponura Fowler, 1906:313, fig. 14. Type locality: Ambyiacu River, Equador. [Peru, Loreto, Río Ampiyacu, near Pebas (Castro, Vari, 2003b:152)]. Holotype: ANSP 8033. [Holotype in very poor condition; majority of the scales lost].

Distribution: 313, 314, 315, 316, 320, 321, 323 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Semaprochilodus kneri (Pellegrin, 1909)

Prochilodus kneri Pellegrin, 1909b:155. Type locality: Orénoque. [Venezuela]. Lectotype: MNHN 1887-0708. [Designated by Castro, Vari (2003b:161)].

Distribution: 307, 308, 309 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Semaprochilodus laticeps (Steindachner, 1879)

Prochilodus laticeps Steindachner, 1879a:150. Type locality: Orinoco bei Ciudad Bolívar. [Venezuela]. Holotype: whereabouts unknown. [Type apparently lost (Castro, Vari, 2003b:163)].

Distribution: 306, 307, 309 (Castro, Vari, 2003a; Castro, Vari, 2003b).

Remarks: Species illustrated and described in more detail in Steindachner (1879a:152 [page 4 of separate]).

Semaprochilodus taeniurus (Valenciennes, 1821)

Curimatus taeniurus Valenciennes, in Humboldt, Valenciennes, 1821:166. Type locality: l’Amerique Equinoxiale. [Restricted by Castro, Vari (2003b:165) to Brazil, Amazonas, upper Rio Negro]. Holotype: MNHN A 8.641. [Details in Castro, Vari (2003b:167)].

Distribution: 314, 316, 321 (Castro, Vari, 2003a; Castro, Vari, 2003b).

***Semaprochilodus varii* Castro, 1988**

Semaprochilodus varii Castro, 1988:504, fig. 1. Type locality: Suriname, Marowijne District, Marowijne River, about 25 km south of Albina. Holotype: ZMA 106.222. [The holotype is most probably a juvenile (SL 66.3 mm)].

Distribution: 311 (Castro, 1988; Castro, Vari, 2003a; Castro, Vari, 2003b).

***Species inquirendae* (Prochilodontidae)**

Prochilodus binotatus Jardine, in Schomburgk, 1841:260, Pl. 29. Type locality: Rio Branco. No types known.

Remarks: Considered as *nomen dubium* by Castro, Vari (2003:68) and Castro, Vari (2003b:157).

Prochilodus dobulinus Valenciennes, in Cuvier, Valenciennes, 1850:81. Type locality: L’Amazone. No types known.

Remarks: Considered as *nomen dubium* by Castro, Vari (2003:68) and Castro, Vari (2003b:152).

SERRASALMIDAE Bleeker, 1859

RP Ota, M Andrade, M Jégu

Serrasalmi Swainson, 1838:256. (no family-group name)

Serrasalmoniformes Bleeker, 1859: XXXI. Type genus: *Serrasalmus* Lacepède, 1803.

Additional comments: Bleeker (1859) misspelled Serrasalmoniformes. Fowler (1907b:468) corrected the stem to Serrasalmi- (correct spelling Serrasalmi-).

Mylesinae Eigenmann, 1903 (correct spelling Mylei-):147. Type genus: *Myleus* Müller, Troschel, 1844. Additional comments: Eigenmann (1903:147) misspelled Mylesinae. Eigenmann in Eigenmann *et al.* (1907:154) changed to Myleinae. Eigenmann (1907:771) corrected to Myleinae.

Catoprionidi Fowler, 1958:11. Type genus: *Catoprion* Müller, Troschel, 1844.

Colossomatinae Kolmann, Hughes, Hernandez, Arcila, Betancur-R, Sabaj, López-Fernández, Ortí, 2021:Corrigendum. Type genus: *Collossoma* Eigenmann, Kennedy, 1903. Additional comments: Colossomatinae not made available by Kolmann *et al.* (2020) or Mateussi *et al.* (2020), but by Corrigendum published 11 February 2021. Mateussi *et al.* (2020b:7) provided a morphological diagnosis.

Remarks: Two different phylogenetic hypotheses for the relationships within the Serrasalmidae have been recently proposed. Kolman *et al.* (2020) divided it into three subfamilies: Colossomatinae, Myleinae, and Serrasalminae. Mateussi *et al.* (2020) divided it into two subfamilies and two tribes (Colossomatinae (Serrasalminae (Myleini + Serrasalmini))), and provided morphological diagnoses for each higher-level taxon.

ACNODON Eigenmann, 1903

Acnodon Eigenmann, 1903:147. Type species: *Myleus oligacanthus* Müller, Troschel, 1844. Type by original designation. Gender: Masculine. Additional comments: Monophyly proposed in Kolman *et al.* (2020), but their analysis did not include all congeners.

Acnodon normani Gosline, 1951

Acnodon normani Gosline, 1951:43, Pl. 3, fig. 5b. Type locality: Rio Santa Teresa, a western tributary of the upper Rio Tocantins, State of Goiaz, Brazil. Holotype: CAS 20223.

Distribution: 322, 324 (Jégu, 2003).

Remarks: See Jégu, Santos (1990:189) for species redescription, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Acnodon oligacanthus (Müller, Troschel, 1844)

Myleus oligacanthus Müller, Troschel, 1844:98. Type locality: Surinam. Holotype: ZMB 3635. [See Zarske (2012b:328, fig. 93b, c) for holotype detailed description and x-ray image].

Distribution: 311 (Jégu, 2003).

Remarks: Also appeared as new species in Müller, Troschel (1845:24).

Acnodon senai Jégu, Santos, 1990

Acnodon senai Jégu, Santos, 1990:195, fig. 6D. Type locality: Plage à la pointe aval de l'île de Carapatinho, rio Jari, Amapá, Brésil (0°35'45"S, 52°38'20"W). [Brazil]. Holotype: INPA 2680.

Distribution: 315 (Jégu, 2003).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

CATOPRION Müller, Troschel, 1844

Catoprion Müller, Troschel, 1844:96. Type species: *Serrasalmus mento* Cuvier, 1819. Type by monotypy. Gender: Masculine.

Remarks: Recovered as monophyletic and sister to *Pygopristis* Müller, Troschel, 1844 (Kolmann *et al.*, 2020; Mateussi *et al.*, 2020b).

Catoprion absconditus Mateussi, Melo, Oliveira, 2020

Catoprion absconditus Mateussi, Melo, Oliveira, 2020:12, figs. 8–12. Type locality: Caracará, igarapé do Campo, rio Jufari, rio Branco, 01°03'54"S, 62°07'46"W. [Brazil]. Holotype: MZUSP 125764.

Distribution: 310, 314, 315, 316 (Mateussi *et al.*, 2020a).

Catoprion mento (Cuvier, 1819)

Serrasalmus mento Cuvier, 1819:369, Pl. 28 (fig. 3). Type locality: Venu de Lisbonne, paroît aussi originaire du Brésil. [Likely from upper Paraguay, Araguaia or tributaries of the Amazon basin (Mateussi *et al.*, 2020a:678)]. Holotype: MNHN

A-9869 (poor condition). [Mateussi *et al.*, 2020a]
Mylesinus macropterus Ulrey, 1894:612. Type locality: Brazil. Holotype: CUMV 3267. [Mateussi *et al.*, 2020a:678]. Species description supplemented by Ulrey (1895:296). Status of species as synonym corroborated by Mateussi *et al.*, 2020a. Distribution: 307, 308, 316, 318, 319, 321, 324, 343 (Jégu, 2003; Ferreira *et al.*, 2011; Ota *et al.*, 2013; Mateussi *et al.*, 2020a).
Remarks: Species redescribed by Mateussi *et al.* (2020a), including molecular data.

COLOSSOMA Eigenmann, Kennedy, 1903

Colossoma Eigenmann, Kennedy, 1903:530. Type species: *Myletes oculus* Cope, 1872. Type by original designation. Gender: Neuter. Additional comments: Also appeared in Eigenmann 1903:148.

Waiteina Fowler, 1907:473. Type species: *Myletes nigripinnis* Cope, 1878. Type by original designation. Gender: Feminine. Additional comments: Originally proposed as a subgenus of *Colossoma*.

Melloina Amaral Campos, 1946:219. Type species: *Melloina tambaqui* Amaral Campos, 1946. Type by original designation. Gender: Feminine.

Colossoma macropomum (Cuvier, 1816)

Myletes macropomus Cuvier, 1816:185, Pl. 10 (fig. 1). Type locality: Brasil. Holotype: MNHN A.8626. [Stuffed specimen].

Myletes oculus Cope, 1872b:268, Pl. 12 (fig. 2). Type locality: Ambyiacu. [Río Ampyiacu, Peru]. Lectotype: ANSP 7991. [Designated by Fowler (1907:472). Treated as holotype by Böhlke (1984:53)]. See Taphorn (1992:161) for synonymy with *Colossoma macropomum* (Cuvier, 1816).

Myletes nigripinnis Cope, 1878:693. Type locality: Probably from Nauta, Peruvian Amazon. Lectotype: ANSP 21124. [Designated by Fowler (1907:473, fig. 55). Treated as holotype by Böhlke (1984:51)]. See Taphorn (1992:161) for synonymy with *Colossoma macropomum* (Cuvier, 1816).

Melloina tambaqui Amaral Campos, 1946:220, fig. 3. Type locality: Taperinha, Estado do Pará (Santarém). [Brazil]. Holotype: MPEG.

Distribution: 203i, 206i, 207i, 208i, 209i, 210i, 301, 302, 305, 306, 307, 308, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 327, 330, 342, 344 (Jégu, 2003. For information about introduction of species see Castellani, Barrella, 2006; Barriga, 2012; Ramos *et al.*, 2014; Langeani *et al.*, 2007 and Ota *et al.*, 2018).

Remarks: Also described as new in Cuvier (1818:453, Pl. 21, fig. 3). Detailed description of ontogeny, neurocranium osteology, and morphology in Machado-Allison (1982, 1986) and Géry (1986). See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

METYNNIS Cope, 1878

Metynnis Cope, 1878:692. Type species: *Metynnis luna* Cope, 1878. Type by monotypy. Gender: Masculine.

Myleocollops Eigenmann, 1903:147. Type species: *Metynnis goeldii* Eigenmann,

1903. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Metynnis*.

Sealeina Fowler, 1907:478. Type species: *Myletes lippincottianus* Cope, 1870. Type by original designation. Gender: Feminine.

Metynnis altidorsalis Ahl, 1923

Metynnis altidorsalis Ahl, 1923b:22. Type locality: Paramaribo, Surinam. Holotype: ZMB 19626. [See Zarske (2012b:299, fig. 74a, b) for holotype detailed description and X-ray image].

Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 317, 320 (Jégu, 2003; Jégu, Ingenito, 2007; Ota, 2015; Machado *et al.* (2018)).

Remarks: See Zarske, Géry (2000:17–22) for variation in color pattern and body shape, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis anisurus Ahl, 1923

Metynnis anisurus Ahl, 1923b:27, fig. 2. Type locality: Rio Tapajoz, Borin. [Rio Tapajós, Boim, Brazil]. Holotype: ZMB 20678. [See Zarske (2012b:300, fig. 75b, c) for holotype detailed description and X-ray image].

Distribution: 315, 320, 322 (Ota, 2015:189) and Ota (2015) based on color pattern.

Metynnis argenteus Ahl, 1923

Metynnis argenteus Ahl, 1923b:24. Type locality: Rio Tapajoz, Borin. [Rio Tapajós, Boim, Brazil]. Holotype: ZMB 20676. [See Zarske (2012b:302, fi. 76a, b) for holotype detailed description and X-ray image].

Metynnis eigenmanni Ahl, 1923b:25. Type locality: Rio Tapajoz, Borin. [Rio Tapajós, Boim, Brazil]. Holotype: ZMB 20677. [See Zarske (2012b:310, fig. 81a, b) for holotype detailed description and X-ray image]. See Gosline (1951:52) for synonymy with *Metynnis argenteus* Ahl, 1923. According to Ota (2015:58) *Metynnis eigenmanni* Ahl, 1923 is a junior synonym of *Metynnis altidorsalis* Ahl, 1923.

Distribution: 320 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: *Metynnis argenteus* was considered a junior synonym of *Metynnis altidorsalis* Ahl, 1923 by Gosline (1951:52) and Ota (2015:58), based on similar morphology and color pattern.

Metynnis cuiaba Pavanelli, Ota, Petry, 2009

Metynnis cuiaba Pavanelli, Ota, Petry, 2009:142, figs. 1–5. Type locality: Brazil, Mato Grosso State, Município de Barão de Melgaço and Santo Antônio do Leverger, baía Sinhá Mariana, rio Cuiabá, rio Paraguai basin, 16°20'20"S, 55°54'10"W. Holotype: MZUSP 100626.

Distribution: 318, 319, 321, 323, 324, 343 (Pavanelli *et al.*, 2009; Ota, 2015; Machado *et al.* (2018)).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis fasciatus Ahl, 1931

Metynnis fasciatus Ahl, 1931b:407, Pl. 3a, fig. unnumbered p. 409. Type locality: Rio Capiuru. [correct spelling of Capiuru is “Capim”. According to Géry (1964d:461) the type locality is probably in the lower Amazonas River basin,

Brazil]. Holotype: ZMB (not found). [In original description Ahl (1931:409) mentioned the type specimen was 102 mm SL].

Distribution: 316, 320, 322, 323, 324 (Jégu, 2003; Ota, 2015; Machado *et al.* (2018)).

Remarks: See Géry (1964d:461 and plate III, fig. a) for a diagnosis from *Metynnis hypsauchen* (Müller, Troschel, 1844), and color pattern. See Zarske (2012b:311) for a discussion on taxonomic status of the species, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Metynnis guaporensis* Eigenmann, 1915**

Metynnis guaporensis Eigenmann, 1915:267, Pl. 54. Type locality: Maciél, Rio Guaporé. [Brazil]. Holotype: FMNH 56913.

Distribution: 307, 308, 310, 314, 315, 316, 318, 319, 321, 322, 323, 324 (Jégu, 2003; Ota *et al.*, 2013; Ota, 2015; Machado *et al.* (2018)).

Remarks: See Zarske, Géry (1999b:193) for species redescription, Ota *et al.* (2013:19) for information about sexual dimorphism and color pattern and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Metynnis hypsauchen* (Müller, Troschel, 1844)**

Myletes hypsauchen Müller, Troschel, 1844:97. Type locality: Guiana. [Guyana]. Lectotype: ZMH 2865. [Designated and figured by Zarske, Géry (1999b:172, fig. 1). Zarske (2012b: 322, fig. 89b. c) for paralectotype detailed description and X-ray image].

Metynnis calichromus schreitmuelleri Ahl, in Schreitmüller, Ahl, 1922:265. Type locality: Amazonenstrom. Holotype: ZMB 20664. [See Zarske (2012b:305, fig. 78b, c) for holotype detailed description and X-ray image]. Also appeared in Ahl (1923:19).

Metynnis calichromus Ahl, 1923b:18, fig. 1. Type locality: Lago de Faro (Jamundá). [“Lago do Faro (Nhamundá)”, Brazil]. Holotype: ZMB 20674. [See Zarske (2012b:304, fig. 77b, c) for holotype detailed description and X-ray image]. See Zarske, Géry (1999b:197) for description of type and synonymy with *Metynnis hypsauchen* (Müller, Troschel, 1844).

Metynnis ehrhardti Ahl, 1927:273. Type locality: Mundurucú, Rio Manacapuru, Solimoes, Amazonas, Brazil. Lectotype: ZMB 23685. [Designated and figured by Zarske, Géry (1999b:2010, fig. 33). See Zarske (2012b:309, fig. 80a, b) for lectotype detailed description and X-ray image]. See Zarske, Géry (1999b:211) for types description and synonymy with *Metynnis hypsauchen* (Müller, Troschel, 1844).

Distribution: 307, 308, 310, 314, 315, 316, 320 (Jégu, 2003; Ota, 2015; Ota *et al.* 2016; Machado *et al.* (2018)).

Remarks: Also appeared as new species in Müller, Troschel (1845:23). See Zarske, Géry (1999b:173) for information about sexual dimorphism, Ota *et al.* (2016) for a discussion of distribution, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Metynnis lippincottianus* (Cope, 1870)**

Myletes lippincottianus Cope, 1870:561, figure of head unnumbered. Type locality: Para, Brazil, J. C. Brevoort’s collection. Syntype: ANSP 8024. [Bohlke (1984:49);

photograph of specimen and vertebral counts presented by Zarske, Géry (1999:180, fig. 8); type status based on a label identifying the specimen as a syntype.].

Metynnis goeldii Eigenmann, 1903:147. Type locality: South America. [Lectotype locality: Brazil (Zarske, Géry, 2008)]. Lectotype: CAS 70686 [ex. SU 5205]. [Designated and figured by Zarske, Géry (2008:193, figs. 20–21)]. See Zarske, Géry (2008:193) for a discussion of the species taxonomic status.

Myletes (Myleus) orbicularis Steindachner, 1908b:364. Type locality: Santarem am Amazonenstrom. [The correct is “Santarém”, Brazil]. Lectotype: NMW 56428. [Designated and figured by Zarske, Géry (1999b:189, fig. 17)]. See Zarske, Géry (1999b:189) for a discussion of the species taxonomic status.

Metynnis roosevelti Eigenmann, 1915:268, Pl. 55. Type locality: Manaus. [Brazil]. Holotype: FMNH 56925. See Zarske, Géry (1999b:194) for type description and discussion of the species taxonomic status.

Metynnis heinrothi Ahl, 1923b:29, fig. 3. Type locality: Amazonenstrom? Aquarium, Zoo, Berlin. Holotype: ZMB 20662. [See Zarske (2012b:312, fig. 83b, c) for holotype detailed description and X-ray image]. See Zarske, Géry (1999b:208) for a discussion of the species taxonomic status.

Metynnis seitzii Ahl, 1923b:28. Type locality: Amazonas? Aquarium, Zoo, Berlin. Holotype: ZMB 20663. [See Zarske (2012b:317, fig. 86b, c) for holotype detailed description and X-ray image]. See Zarske, Géry (1999b:207) for a discussion of the species taxonomic status.

Metynnis snethlageae Ahl, 1923b:30. Type locality: Amazonenstrom? Aquarium, Zoo, Berlin. Holotype: ZMB 19722. [See Zarske (2012b:319, fig. 87b, c) for holotype detailed description and X-ray image]. See Zarske, Géry (1999b:210) for a discussion of the species taxonomic status.

Metynnis dungerni Ahl, 1925:108. Type locality: Amazonenstrom bei Para. [Brazil]. Holotype: ZMB 23683. [See Zarske (2012b:307, fig. 79b, c) for detailed description of holotype and X-ray image]. See Zarske, Géry (1999b:210) for a discussion of the species taxonomic status.

Distribution: 307, 311, 315, 316, 318, 319, 321, 323, 324, 325, 326, 327, 328, 329, 344i (Jégu, 2003; Jégu, Ingenito, 2007; Ota *et al.*, 2013; Ota, 2015; Ota *et al.*, 2016; Machado *et al.*, 2018).

Remarks: See Zarske, Géry (1999b) for discussion on synonymies, Ota *et al.* (2013:19) for information about sexual dimorphism and color pattern and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI). Species currently misidentified as *M. maculatus* (Kner, 1858b) in Paraná and São Francisco River basins (*e.g.*, Langeani *et al.*, 2007).

***Metynnis longipinnis* Zarske, Géry, 2008**

Metynnis longipinnis Zarske, Géry, 2008:175, figs. 1–2. Type locality: Venezuela, Mündung rio Casiquiare -- rio Negro. Holotype: SU 54688:1. [According to Fricke *et al.* (2022) the holotype (CAS-SU 54688:1, 66.5 mm SL) is not identified because of similar size to the paratypes (CAS-SU 54688:2, 66.4 mm SL)].

Distribution: 306, 308, 314, 315, 316 (Zarske, Géry, 2008; Ota, 2015).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis luna Cope, 1878

Metynnis luna Cope, 1878:692. Type locality: Near Pebas, Peruvian Amazon. Holotype: ANSP 21443. [Fowler (1907:479, fig. 58); Böhlke (1984:50)].

Distribution: 308, 310, 314, 315, 316, 317, 319, 321, 322, 324 (Jégu, 2003; Ota *et al.*, 2013; Ota, 2015).

Remarks: See Zarske, Géry (1999b:181) for species redescription, Ota *et al.* (2013:21) for information about sexual dimorphism and color pattern. Hypothesis of species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) proposed that this species is represented by three or more lineages (Machado *et al.*, 2018).

Metynnis maculatus (Kner, 1858)

Myletes maculatus Kner, 1858b:164. Type locality: not given. [Kner (1858b) mentioned the species co-occurs with *M. hypsauchen*. Kner (1860:27) later mentioned the type locality as “Rio Guaporé”]. Lectotype: NMW 56396. [Designated and figured by Zarske, Géry (1999b:178, fig. 5)].

Distribution: 307, 308, 314, 315, 316, 318, 319, 321, 343 (Jégu, 2003; Ota *et al.*, 2013; Ota, 2015).

Remarks: Described as new species in Kner (1860:26). See Ota *et al.* (2013:21) for information about sexual dimorphism and color pattern, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis melanogrammus Ota, Rapp Py-Daniel, Jégu, 2016

Metynnis melanogrammus Ota, Rapp Py-Daniel, Jégu, 2016:804, figs. 1–8. Type locality: rio Parauari, Monte Sinai community, Maués, Amazonas, Brazil, 4°21'28"S, 57°35'54"W. Holotype: INPA 52216.

Distribution: 314, 315, 316, 321 (Ota *et al.*, 2016).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis mola Eigenmann, Kennedy, 1903

Metynnis mola Eigenmann, Kennedy, 1903:528. Type locality: Arroyo Trementina. [Paraguay]. Holotype: CAS 60784. [According to Zarske (2012b:314), the lot ZMB 16978, 71.3 mm SL, is not a paratype].

Distribution: 343 (Jégu, 2003).

Remarks: See Zarske, Géry (1999b:187, fig. 15b) for information about postpelvic spines, Zarske (2012b:314) for detailed description and X-ray image, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Metynnis orinocensis (Steindachner, 1908)

Myletes (Myleus) orinocensis Steindachner, 1908b:365. Type locality: Orinoco bei Ciudad Bolivar. [Venezuela]. Syntypes: (3) NMW (apparently lost). [Syntypes probably lost according to Jégu (2003)].

Distribution: 308 (Jégu, 2003).

Remarks: See Zarske, Géry (1999b:190, fig. 18) for species redescription. Status of species discussed by Ota (2015:144) as a possible junior synonym of *M. hypsauchen*.

Metynnis otuquensis Ahl, 1923

Metynnis otuquensis Ahl, 1923b:26. Type locality: Rio Otuquis, Bahia Negra.

Holotype: ZMB 16980, and paratype ZMB 34505. [See Zarske (2012b:315, fig. 85a, b) for holotype detailed description and X-ray image. Zarske, Géry (1999b:202) separated the holotype (ZMB 16980, 95.6 mm SL), from the paratype (ZMB 34505, 87.0 mm SL)].

Distribution: 342, 343 (Jégu, 2003; Ota, 2015).

Remarks: See Zarske, Géry (1999b:203) for a comparison with *Metynnis mola* Eigenmann, Kennedy, 1903.

Metynnis polystictus Zarske, Géry, 2008

Metynnis polystictus Zarske, Géry, 2008:184, figs. 3–4. Type locality: Lagune en bordure du Ribeiro Tuatuari, en aval de Posto Leonardo, haut Xingú. [upper rio Xingu, Brazil]. Holotype: IRSNB 833.

Distribution: 320, 322 (Zarske, Géry, 2008).

Remarks: Status of species discussed by Ota (2015:76) as a possible junior synonym of *M. anisurus*. See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

MYLESINUS Valenciennes, 1850

Mylesinus Valenciennes, in Cuvier, Valenciennes, 1850:234. Type species: *Mylesinus schomburgkii* Valenciennes, 1850. Type by monotypy. Gender: Masculine.

Remarks: Recovered as paraphyletic in several molecular phylogenies (*e.g.*, Machado *et al.*, 2018; Mateussi *et al.*, 2020b). Morphological diagnosis based on teeth arrangement is homoplastic and more comprehensive studies are required to understand its composition and relationships with remaining serrasalmid genera.

Mylesinus paraschomburgkii Jégu, Santos, Ferreira, 1989

Mylesinus paraschomburgkii Jégu, Santos, Ferreira, 1989:53, Pl. 1. Type locality: Rio Trombetas, en aval de Cachoeira Vira-Mundo, PA. [Brazil]. Holotype: INPA 1226.

Distribution: 311, 315, 323* (Jégu, 2003; Vari, Ferraris, 2009; Andrade *et al.*, 2013).

Remarks: See Andrade *et al.* (2013:304) for identification key. Hypothesis of species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) proposed that this species is represented by three or more lineages (Machado *et al.*, 2018). A taxonomic review is necessary to understand its intra- and interspecific variation.

Mylesinus paucisquamatus Jégu, Santos, 1988

Mylesinus paucisquamatus Jégu, Santos, 1988:332, Pl. 1. Type locality: Jatobal, rio Tocantins. [Brazil]. Holotype: INPA 1808.

Distribution: 324 (Jégu, 2003; Andrade *et al.*, 2013).

Remarks: See Andrade *et al.* (2013:304) for identification key, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Mylesinus schomburgkii Valenciennes, 1850

Mylesinus schomburgkii Valenciennes, in Cuvier, Valenciennes, 1850:235, Pl. 644. Type locality: not given. [according to Bertin (1948:27–28) the type locality is Essequibo River, Guyana]. Holotype: MNHN A.9855. [Incomplete specimen,

head only, used for original description along with the drawing depicted in Pl. 644 in Cuvier, Valenciennes (1850)].

Distribution: 308, 310 (Jégu, 2003; Andrade *et al.*, 2013).

Remarks: See Andrade *et al.* (2013:304) for identification key.

MYLEUS Müller, Troschel, 1844

***Myleus* Müller, Troschel, 1844:98.** Type species: *Myleus setiger* Müller, Troschel, 1844.

Type by subsequent designation by Eigenmann (1910:443). Gender: Masculine.

Remarks: Recovered as monophyletic in Kolmann *et al.* (2020), but paraphyletic in Mateussi *et al.* (2020b). Morphological diagnosis based on teeth arrangement is homoplastic and more comprehensive studies are required to understand its composition and relationship with remaining serrasalmid genera.

***Myleus altipinnis* (Valenciennes, 1850)**

Tometes altipinnis Valenciennes, in Cuvier, Valenciennes, 1850:230, Pl. 643. Type locality: Rio San-Francisco. [rio São Francisco, Brazil]. Holotype: MNHN A-8652. [stuffed specimen, lacking axial skeleton].

Distribution: 327 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: Species only known from the stuffed holotype. See Andrade *et al.* (2018) for description of teeth arrangement.

***Myleus knerii* (Steindachner, 1881)**

Myletes knerii Steindachner, 1881a:127 [27], Pl. 7 (fig. 2). Type locality: Maroni-Fluss in Guiana [French Guiana]. Holotype: MNW 56394. [See Jégu, Santos (2002:55, fig 13a, b, c) for holotype images].

Distribution: 311 (Jégu, 2003).

Remarks: See Jégu, Santos (2002:54) for detailed redescription, Andrade *et al.* (2013:304) for identification key, and Andrade *et al.* (2018) for description of teeth arrangement.

***Myleus micans* (Lütken, 1875)**

Myletes (Tometes) micans Rhdt. Lütken, 1875c:137 [11]. Type locality: Rio das Velhas og dens niilod Rio Taquoaruru, der falder i forst naevnte lidt nord for Lagoa Santa. [Brazil]. ZMUC 260 (1) and ZMUC 261 (1).

Distribution: 327 (Jégu, 2003).

Remarks: Also described in Lütken (1875:241). See Andrade *et al.* (2018) for description of teeth arrangement, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Myleus pachyodus* Andrade, Jégu, Buckup, Netto-Ferreira, 2018**

Myleus pachyodus Andrade, Jégu, Buckup, Netto-Ferreira, 2018:1903, figs. 1–7. Type locality: Brazil, Mato Grosso, Alta Floresta, Tapajós River basin, Rio Teles Pires, 9° 38'01"S, 55° 56'01"W. Holotype: MNRJ 35023.

Distribution: 320 (Andrade, Jégu, Buckup, Netto-Ferreira, 2018).

***Myleus planquettei* (Jégu, Keith, Le Bail, 2003)**

Myloplus planquettei Jégu, Keith, Le Bail, 2003:835, figs. 2–5. Type locality: fleuve Maroni, Twenk, Guyane française, coll. De Mérona [French Guiana]. Holotype: MNHN 1997-730.

Distribution: 310, 311 (Jégu *et al.*, 2003; Vari, Ferraris, 2009; Mol *et al.*, 2012).

Remarks: Assignment to *Myelus* based on Kolmann *et al.*, 2020:11, however the species does not share the morphological diagnosis proposed by Jégu, Santos (2002).

***Myleus setiger* Müller, Troschel, 1844**

Myleus setiger Müller, Troschel, 1844:98. Type locality: Guiana. Lectotype: ZMB 3634. [Designated and figured by Jégu, Santos (2002:36), fig. 1. See Zarske (2012b:330, fig. 94b) for lectotype and paralectotype photos, and X-ray image].

Myletes divaricatus Valenciennes, in Cuvier, Valenciennes, 1850:215. Type locality: Esséquiabo. [Guyana]. Holotype: MNHN A-8629. [See Jégu, Santos (2002:51, fig. 10a) for holotype image]. See Jégu, Santos (2002:37) for the species taxonomic status discussion.

Myletes doidyxodon Valenciennes, in Cuvier, Valenciennes, 1850:222. Type locality: Amazone. Holotype: MNHN A-9868. [See Jégu, Santos (2002:51, fig. 10b) for holotype image]. See Jégu, Santos (2002:37) for the species taxonomic status discussion.

Distribution: 307, 308, 310, 311, 314, 315, 319, 320, 321, 322, 324 (Jégu, 2003; Andrade *et al.*, 2013; Vari, Ferraris, 2009).

Remarks: Also appeared as new in Müller, Troschel (1845:24). Detailed redescription in Jégu, Santos (2002:37). Identification key in Andrade *et al.* (2013). See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Species inquirenda (Myleus)

Myletes pacu Jardine, in Schomburgk, 1841:236, Pls. 20–21. Type locality: Falls of the Essequibo and Mazaruni, at the cataracts of the Paramu, a tributary of the Orinoco which joins that the river above Esmeralda. [Guyana]. No types known.

Remarks: Jégu (2003) considered *Myleus pacu* as species *inquirenda* based on Jégu, Santos (2002) who considered the types of *Myleus pacu* as unknown. See Andrade *et al.*, 2019 for taxonomic history.

MYLOPLUS Gill, 1896

***Myloplus* Gill, 1896c:214.** Type species: *Myletes asterias* Müller, Troschel, 1844. Type by subsequent designation by Jordan (1920:467). Gender: Masculine. Additional comments: Originally proposed as subgenus of *Myleus*.

***Orthomyleus* Eigenmann, 1903:148.** Type species: *Myletes ellipticus* Günther, 1864. Type by original designation. Gender: Masculine. Additional comments: Originally proposed as a subgenus of *Myleus*.

Remarks: Recovered as paraphyletic in recent molecular phylogenies (Kolmann *et al.*, 2020; Mateussi *et al.*, 2020b). Morphological diagnosis based on teeth arrangement is homoplastic and more comprehensive studies are required to understand its composition and relationship with remaining serrasalmid genera.

***Myloplus arnoldi* Ahl, 1936**

Myloplus arnoldi Ahl, 1936:25. Type locality: Amazonenstrom. Syntype: 20812. [Zarske (2012b) revealed that just one specimen is available as syntype rather than two. See Zarske (2012b:331, fig. 95b, c) for detailed description and X-ray image of syntype].

Distribution: 315*, 316, 322, 323*, 324 (Jégu, 2003; Jégu, Ingenito, 2007; M. Andrade, pers. obs.).

Remarks: See Zarske (2012b:329) for new combination and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Myloplus asterias* (Müller, Troschel, 1844)**

Myletes asterias Müller, Troschel, 1844:98. Type locality: Guiana. [Guyana]. Lectotype: ZMB 3646. [Designated by Jégu *et al.* (2004:124). See Zarske (2012b:321, fig. 88b, c) for lectotype detailed description and X-ray image.

Myletes ellipticus Günther, 1864:375. Type locality: Essequibo. [Guyana]. Syntypes: BMNH 1864.1.21.33 (1), 1971.5.10.63 (1). [See Jégu *et al.* (2004:125–126, fig. 4a) for syntype image and detailed description]. See Jégu *et al.* (2004:127) for discussion on taxonomic status.

Myleus gurupyensis Steindachner, 1911b:342. Type locality: Rio Gurupy bei Chatão. [Brazil]. Syntypes: (2) NMW 10589 (1). [Jégu (2003:185) mentioned that only one specimen was found rather than two]. See Jégu (2003:185) for synonymy with *Myloplus asterias* (Müller, Troschel) based on personal observation and examination of type specimens.

Myloplus schulzei Ahl, 1938:191. Type locality: South America. Holotype: ZMB 20814. [See Jégu (2001:385, fig. 1), and Zarske (2012b:332, fig. 96a, b) for holotype detailed description and X-ray image]. See Jégu (2001:383) for discussion on taxonomic status.

Tomète maculatus Amaral Campos, 1944b:211, figure. Type locality: Rio Amazonas. Holotype: MZUSP 3356. Genus should have been spelled *Tometes*. See Jégu (2003:185) for synonymy with *Myloplus asterias* (Müller, Troschel, 1844).

Distribution: 310, 311, 314, 315, 316, 319, 321, 322, 323, 324 (Jégu, 2003; Jégu *et al.*, 2004; Ota *et al.*, 2013).

Remarks: Also appeared as new in Müller, Troschel (1845:24). See Jégu *et al.* (2004:123) for species redescription. Multiple lineages recovered in the hypothesis of species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) proposed in Machado *et al.* (2018), and Ota *et al.* (2020). A broad taxonomic review is necessary to understand intra- and interspecific variation, and consequently the limits of its geographic distribution. See Ota *et al.* (2020) for confirmation of synonymies.

***Myloplus levis* (Eigenmann, McAtee, 1907)**

Myleus levis Eigenmann, McAtee, in Eigenmann, McAtee, Ward, 1907:142, Pl. 42 (fig. 2). Type locality: Bahia Negra [Paraguay]. Holotype: CAS 62107.

Distribution: 342, 343 (Britski *et al.*, 1999; Gomes, 2015).

Remarks: See Britski *et al.* (1999:58) for a short description, Andrade *et al.* (2016b:154) for new combination, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Myloplus lobatus* (Valenciennes, 1850)**

- Myletes lobatus* Valenciennes, in Cuvier, Valenciennes, 1850:212. Type locality: Amazone. Syntype: MNHN 0000-5244. [unique, in poor condition].
- Myletes discoideus* Kner, 1860:30 [22]. Type locality: Bananeira, Rio branco, Matogrosso. [Mato Grosso, Brazil]. Syntypes: NMW 16407 (1, dry). The name first appeared in Kner (1858b:165), but was described in more detail by Kner (1860:30) who mentioned it was already being described by Heckel (in preparation).
- Myletes parma* Günther, 1864:374. Type locality: River Capin, Para. [Brazil]. Syntypes: BMNH 1849.11.8.32 (1) and BMNH 1849.11.8.33 (1). See Jégu (2003:185) for discussion on the species taxonomic status.
- Distribution: 307, 308, 309, 315, 316, 318, 319, 321 (Jégu, 2003).
- Remarks: See Jégu, Ingenito (2007) for new combination, Ota *et al.* (2013:25) for information about diagnostic features and color pattern, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).
- Myloplus lucienae*** Andrade, Ota, Bastos, Jégu, 2016
- Myloplus lucienae* Andrade, Ota, Bastos, Jégu, 2016:572, figs. 1–4. Type locality: Rio Carabinani, Novo Airão, Amazonas, Brazil, 2°01'25"S, 61°32'35"W. Holotype: INPA 30717.
- Distribution: 314 (Andrade *et al.*, 2016c).
- Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).
- Myloplus nigrolineatus*** Ota, Machado, Andrade, Collins, Farias, Hrbek, 2020
- Myloplus nigrolineatus* Ota, Machado, Andrade, Collins, Farias, Hrbek, 2020: figs. 1–4. Type locality: Brazil, Amazonas State, ca. 60 km south of Manaus, lago Tracajá, tributary of rio Juma, rio Amazonas basin, 3°41'15"S, 59°57'01"W. Holotype: INPA 54773.
- Distribution: 314, 316, 320, 324 (Ota *et al.*, 2020).
- Remarks: See Machado *et al.* (2018) for previous results of species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).
- Myloplus rubripinnis*** (Müller, Troschel, 1844)
- Myletes rubripinnis* Müller, Troschel, 1844:97. Type locality: Guiana. Lectotype: ZMB 23686. [Designated by Jégu *et al.* (2004:125). See Zarkse (2012:325, fig. 91b, c) for paralectotype detailed description and X-ray image. Paralectotype also illustrated in Andrade *et al.* 2018:118, fig. 4].
- Myletes luna* Valenciennes, in Cuvier, Valenciennes, 1850:221. Type locality: Cayenne. [French Guiana]. Lectotype: MNHN A-9870 (290 mm SL). [Designated by Géry (1972a:163). See Jégu *et al.* (2004:125–126, fig. 4b) for discussion about species taxonomic status].
- Distribution: 307, 308, 310, 311, 314, 315, 316, 319, 320*, 321, 322, 323, 324 (Jégu, 2003; Jégu *et al.*, 2004; Ota *et al.*, 2013; M. Andrade, pers. obs.).
- Remarks: Also appeared as new in Müller, Troschel (1845:23). See Jégu *et al.* (2004:140) for detailed redescription, information about color pattern. Multiple lineages recovered in the species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) in Machado *et al.* (2018). Andrade *et al.*, 2018 presented comments on distribution of the species in the Guiana Shield, but

highlighted the necessity of a broad taxonomic review to delimit its geographical distribution.

Myloplus schomburgkii (Jardine, 1841)

Tetragonopterus schomburgkii Jardine, in Schomburgk, 1841:243, Pl. 22. Type locality: Rio Negro. No types known.

Myletes palometa Valenciennes, in Cuvier, Valenciennes, 1850:214. Type locality: Haut Orénoque. [Venezuela]. No types known. In the original description the author mentioned this species as strictly related to *Myloplus schomburgkii* (Jardine 1841), but because it came from a different river basin, it was described as a new species.

Myletes schomburgkii Valenciennes, in Cuvier, Valenciennes, 1850:212. Type locality: Surinam. [Suriname]. Probable Syntypes: ZMB 3638 (1) and ZMB 3639 (1). [No types known according to Jégu (2003). See Zarske (2012b:327, fig. 92a, b) for the probable syntypes description].

Distribution: 307, 308, 313, 314, 315, 316, 320*, 321, 322, 324 (Jégu, 2003; Jégu, Ingenito, 2007; Machado *et al.*, 2018; M. Andrade, pers. obs.).

Remarks: See Andrade *et al.* (2016b:154) for new combination. Multiple lineages recovered in the hypothesis of species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) in Machado *et al.* (2018).

Myloplus tiete (Eigenmann, Norris, 1900)

Myletes tiete Eigenmann, Norris, 1900:359. Type locality: Piracicaba. [Brazil]. Holotype: not found.

Distribution: 343, 344, 345 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: See Gomes (2015:104) for color pattern and information about sexual dimorphism, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Myloplus torquatus (Kner, 1858)

Myletes torquatus Kner, 1858b:164. Type locality: not given. [Kner (1860:24) later mentioned type locality as “Rio branco (Marabitanos)”]. Syntypes: NMW 56449 (1) and NMW 56450 (1). [According to Jégu (2003) only two specimens are available as syntypes rather than three. See Gomes (2015:107, fig. 54) for syntype illustration].

Distribution: 308, 314 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: Described as new species in Kner (1860:24, Taf I fig. 4). See Andrade *et al.* (2016b:154) for new combination.

Myloplus tumukumak Andrade, Jégu, Gama, 2018

Myloplus tumukumak Andrade, Jégu, Gama, 2018:112, figs. 1–2, 4B. Type locality: Brazil, State of Amapá, Motoura River, a tributary of Oyapock River, 02° 35'00"N, 52° 33'00"W. Holotype: ZMA 107.638.

Distribution: 311, 315 (Andrade, Jégu, Gama, 2018).

Myloplus zorroi Andrade, Jégu, Giarrizzo, 2016

Myloplus zorroi Andrade, Jégu, Giarrizzo, 2016b:155, figs. 1, 2 and 4. Type locality: Rio Aripuanã, Corredeira dos Periquitos, Apuí, Amazonas, Brazil, 07° 17'19.8"S, 60° 38'10.0"W. Holotype: INPA 50880.

Distribution: 321 (Andrade *et al.*, 2016b).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial

gene cytochrome c oxidase subunit I (COI).

MYLOSSOMA Eigenmann, Kennedy, 1903

Mylossoma Eigenmann, Kennedy, 1903:530. Type species: *Myletes albiscopus* Cope, 1872. Type by monotypy. Gender: Neuter. Additional comments: Also appeared in Eigenmann (1903:148).

Starksina Fowler, 1907:476. Type species: *Myletes herniarius* Cope, 1872. Type by original designation (also monotypic). Gender: Feminine.

Remarks: Revision of Cis-Andean species by Mateussi *et al.* (2018).

Mylossoma acanthogaster (Valenciennes, 1850)

Myletes acanthogaster Valenciennes, in Cuvier, Valenciennes, 1850:209. Type locality: Lagune de Maracaïbo. [Venezuela]. Holotype: MNHN A-1065.

Distribution: 303 (Jégu, 2003).

Remarks: See Machado-Allison, Castillo (1992) for taxonomic review.

Mylossoma albiscopum (Cope, 1872)

Myletes albiscopus Cope, 1872b:267, Pl. 12 (fig. 1). Type locality: Ambyiacu. [Río Ampyiacu, Peru]. Lectotype: ANSP 8021. [Designated by Fowler (1907:475). Treated as holotype by Böhlke (1984:42). See Mateussi *et al.*, 2018:282, fig.4 for lectotype image].

Mylossoma argenteum Ahl, 1928c:192, figure. Type locality: Amazonenstrom. Syntypes: ZMB 20854 (2). [See Zarske (2012b:334, fig. 97b, c) for holotype detailed description and X-ray image. Also appeared in Ahl (1929:273). Synonymy proposed by Mateussi *et al.*, 2018.

Distribution: 307, 314, 315, 316, 317, 321 (Mateussi *et al.*, 2018).

Remarks: Revalidated by Mateussi *et al.*, 2018.

Mylossoma aureum (Agassiz, 1829)

Myletes aureus Agassiz, in Spix, Agassiz, 1829:74, Pl. 31. Type locality: Brasiliae aequinoctialis flaviis. [Brazil]. Lectotype: MHNN 788-A. [Designated by Mateussi *et al.*, 2018:291, fig. 10(p.289)].

Myletes herniarius Cope, 1872b:268, Pl. 12 (fig. 3). Type locality: Ambyiacu. [Río Ampyiacu, Peru]. Lectotype: ANSP 8025. [Designated by Fowler (1907:476, fig. 56); Böhlke (1984:48)]. See Taphorn (1992:284) for discussion on species taxonomic status.

Mylossoma ventriosa Norman, 1929:815, fig. 20. Type locality: Solimões, R. Amazon. Holotype: BMNH 1923.10.28.263. See Machado-Allison, Castillo (1992:17) for discussion on species taxonomic status.

Distribution: 306, 307, 308, 309, 313, 316, 318, 319, 321 (Jégu, 2003; Ota *et al.*, 2013; Mateussi *et al.*, 2018).

Remarks: Author of species name is Agassiz according to Kottelat (1988:79) followed by Jégu (2003) and Mateussi *et al.* (2018). Species redescribed by Mateussi *et al.* (2018:286).

Mylossoma duriventre (Cuvier, 1818)

Myletes duriventris Cuvier, 1818:451, Pl. 22 (fig. 2). Type locality: Brésil. [Brazil]. MNHN A.9891. [stuffed specimen. See Mateussi *et al.* (2018:295, fig. 16) for

holotype image].

Myletes orbignyianus Valenciennes, in Cuvier, Valenciennes, 1850:220. Type locality: Corrientes, dans le Parana. Lectotype: MNHN A-9863 (235 mm SL specimen). [Designated by Géry *et al.* (1987:444). Stuffed specimen]. See Machado-Allison, Castillo (1992:19) for discussion of species taxonomic status.

Mylossoma ocellatum Eigenmann, 1915:265. Type locality: Villa Hays, Paraguay. Holotype: FMNH 56816. Originally appeared as a doubtful new species, probably a juvenile of *Myletes albiscopius* Cope, 1872. Original genus should be *Mylossoma*.

Mylossoma paraguayensis Norman, 1929:814, fig. 19. Type locality: Rio Paraguay. Syntypes: BMNH 1895.5.17.254 (1), BMNH 1895.5.17.255 (1) Río Paraguay, BMNH 1910.5.26.46 (1) San Salvador, BMNH 1910.5.26.47 (1), BMNH 1910.5.26.48 (1) Puerto Asir.

Distribution: 343, 344, 345 (Mateussi *et al.*, 2018).

Remarks: Distribution of species limited to the Rio Paraguai basin, lower Paraná and lower Uruguai rivers basins (Mateussi *et al.*, 2018); records for the Amazon River basin are misidentifications mainly of *M. albiscopium*.

***Mylossoma unimaculatum* (Steindachner, 1908)**

Metynnus unimaculatus Steindachner, 1908d:326. Type locality: Lagune am Rio Medonho, einem Nebenfluss des Pernahyba nördlich von Sa. Filomena. [Type locality in the original description most probably incorrect (Mateussi *et al.* (2018:303))]. Syntypes: NMW 56451 (3). [Illustrated in Mateussi *et al.* (2018:303, fig. 20)].

Distribution: 324 ([Mateussi *et al.* (2018:303)]).

Remarks: See Mateussi (2015: 51) for new combination.

OSSUBTUS Jégu, 1992

Ossubtus Jégu, 1992:240. Type species: *Ossubtus xinguense* Jégu, 1992. Type by original designation. Gender: Neuter.

Remarks: Recovered as closely related to *Myloplus schomburgkii* in Kolmann *et al.* (2020) and Mateussi *et al.* (2020b).

***Ossubtus xinguense* Jégu, 1992**

Ossubtus xinguense Jégu, 1992:240, figs. 4, 11. Type locality: Rio Xingu, Altamira, Pará, Brésil. [Brazil]. Holotype: INPA 6535. [Holotype INPA 6535 wrongly illustrated by Jégu (1992). See Andrade *et al.* (2016d: fig. 3) for illustration of the correct holotype].

Distribution: 322 (Jégu, 2003; Andrade *et al.*, 2016d).

Remarks: See Andrade *et al.* (2016d) for species redescription, illustration of the correct holotype (female instead of male in original description), and conservation status. Species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) in Machado *et al.* (2018).

PARAMYLOPLUS Norman, 1929

Paramyloplus Norman, 1929:828. Type species: *Paramyloplus ternetzi* Norman, 1929.

Type by monotypy. Gender: Masculine.
 Remarks: Proposed as a subgenus by Norman (1929). Considered a valid genus by Kolmann *et al.*, 2020.

Paramyloplus taphorni (Andrade, López-Fernández, Liverpool, 2019)

Myloplus taphorni Andrade, López-Fernández, Liverpool, 2019:2, figs. 1–3. Type locality: Guyana, Mazaruni River at mouth of Kurupung River, 6°12.846'N; 60°09.394'W. Holotype: CSBD F 3611.

Distribution: 310 (Andrade *et al.*, 2019).

Remarks: Allocated in *Paramyloplus* by Kolmann *et al.*, 2020:11.

Paramyloplus ternetzi Norman, 1929

Paramyloplus ternetzi Norman, 1929:828, Pl. 1. Type locality: Maparú Rapids, Approuague River, French Guiana. Syntypes: BMNH 1926.3.2.531 (1) and BMNH 1926.3.2.532 (1).

Myleus (Paramyloplus) ternetzi goslinei Géry, 1972a:171, Pl. 4 (figs. 1–2). Type locality: Surinam (Suriname, Tapanahony et? Sipaliwini Rivieren); Guyane française (bassins du Maroni et de la Mana). Holotype: RMNH 26467. See Jégu (2003:186) for synonymy with *Paramyloplus ternetzi* Norman, 1929. See Andrade *et al.* (2016b:154) and Andrade *et al.* (2016c) for discussion about taxonomic status of species.

Distribution: 311, 315*, 323 (Jégu, 2003; Jégu, Ingenito, 2007; M. Andrade, M. Jégu, pers. obs.).

Remarks: See description, allometry and distribution in French Guiana in Géry (1972a:171). Andrade *et al.* (2016b:154) discussed generic placement of species. Assignment to *Paramyloplus* based on Kolman *et al.*, 2020:11.

PIARACTUS Eigenmann, 1903

Piaractus Eigenmann, 1903:148. Type species: *Myletes brachypomus* Cuvier, 1817. Type by original designation. Gender: Masculine.

Reganina Fowler, 1907:475. Type species: *Myletes bidens* Spix, Agassiz, 1829. Type by original designation. Gender: Feminine.

Piaractus brachypomus (Cuvier, 1818)

Myletes brachypomus Cuvier, 1818:452, Pl. 22 (fig. 1). Type locality: Brasil [Brazil]. Holotype: MNHN A-8627. [Illustrated in Escobar *et al.*, 2019:9, fig. 4].

Myletes paco Humboldt, in Humboldt, Valenciennes, 1821:175, Pl. 47 (fig. 2). Type locality: Amazone ou Haut-Maragnon. No types known. See Machado-Allison (1982:47) for synonymy with *Piaractus brachypomus* (Cuvier, 1818).

Myletes bidens Agassiz, in Spix, Agassiz, 1829:75, Pl. 32. Type locality: Brasiliae aequinoctialis flaviis. [Brazil]. Lectotype: MNHN 0000-789. [Designated by Géry (1986:98)]. Author of species name is Agassiz according to Kottelat (1988:79); author as Spix, Agassiz in Jégu, 2003.

Wateina fowleri Amaral Campos, 1946:219, fig. 2. Type locality: Rio Tapajós. [Brazil]. Holotype: MZUSP 3572. Genus should have been spelled *Waiteina*. See Machado-Allison (1982:48) for discussion on taxonomic status.

Distribution: 313, 314, 315, 316, 318, 319, 320, 321, 323, 324 (Ota *et al.*, 2013, Escobar *et al.*, 2019).

Remarks: See Escobar *et al.* (2019) for species redescription and Ota *et al.* (2013:29) for information about introduction outside of its native range.

Piaractus mesopotamicus (Holmberg, 1887)

Myletes (Myleus) mesopotamicus Holmberg, 1887:387. Type locality: Rio Parana, Uruguay. No types known.

Myletes edulis Castelnau, 1855:68. Type locality: rio Paraguay. Holotype: [No types known]. Castelnau (1855:68) described this species under *Myletes bidens* Agassiz, 1829, because the author believed this morphotype from rio Paraguay was different from the rio Amazonas morphotype.

Myletes mitrei Berg, 1895:149. Type locality: Río Paraná (San Pedro). [Argentina]. Syntypes: BMNH 1928.1.25.6 (1) and BMNH 1928.1.25.7 (1); MACN 4911 (1), 5690 (1). See Bristki *et al.* (1999:62) for discussion of species taxonomic status.

Colosoma canterai Devincenzi, in Devincenzi, Teague, 1942:74, figs. 1–6. Type locality: Río Uruguay. Holotype: whereabouts unknown.

Distribution: 332, 342, 343, 344, 345 (Jégu, 2003; Ota *et al.*, 2018.).

Remarks: See Ota *et al.* (2018:53) for brief description. Recovered as phylogenetically nested within *P. brachypomus* in Escobar *et al.* (2015) and Machado *et al.* (2018), but was considered a valid species by Escobar *et al.* (2019).

Piaractus orinoquensis Escobar, Ota, Machado–Allison, Farias, Hrbek, 2019

Piaractus orinoquensis Escobar, Ota, Machado–Allison, Farias, Hrbek, 2019:5, fig. 1. Type locality: Laguna La raya, caño Falcón, nearby Camaguan, Guárico, 8°07'N, 67°37'W. [Venezuela]. Holotype: ANSP 163570.

Distribution: 307, 308, 309, 310 (Escobar *et al.*, 2019).

PROSOMYLEUS Géry, 1972

Prosomyleus Géry, 1972a:182. Type species: *Myletes rhomboidalis* Cuvier, 1817. Type by original designation. Gender: Masculine. Additional comments: Originally described as a subgenus of *Myleus*.

Remarks: Considered a valid monotypic genus sister to clade containing other Myleinae taxa (except *Acnodon*) by Kolmann *et al.*, 2020. More comprehensive studies are required to understand its composition and relationships with remaining serrasalmid genera.

Prosomyleus rhomboidalis (Cuvier, 1818)

Myletes rhomboidalis Cuvier, 1818:451, Pl. 22 (fig. 3). Type locality: Brésil. [No types known].

Tetragonopterus latus, Jardine, in Schomburgk, 1841:241. Type locality: Guiana. [Guyana]. [No types known]. Treated as species *inquirenda*, in subfamily Serrasalminae by Jégu 2003. See Zarske (2012b) for discussion of species taxonomic status.

Myletes latus Müller, Troschel, 1844:97. Type locality: Guiana. [Guyana]. Syntypes ZMB 3643 (1) ZMB 3644 (1) [Listed by Zarske (2012b:324, fig. 90a, b)]. Also appeared as a new species in Müller, Troschel (1845:24). Considered a Homonym

and junior synonym of *Tetragonopterus latus* Jardine, in Schomburgk, 1841 by Zarske (2012b). Also see Jégu, 2003).

Distribution: 308, 311, 314, 315, 316, 321, 322, 323 (Jégu, 2003; Mol *et al.*, 2007).

Remarks: See detailed description, biology, and distribution in French Guiana in Planquette *et al.* (1996:368), and teeth arrangement illustration in Andrade *et al.* (2016b:158, fig. 3b). Multiple lineages recovered in the species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) in Machado *et al.* (2018). A broad taxonomic review is necessary to understand intra- and interspecific variation, and consequently the limits of its geographic distribution.

PYGOCENTRUS Müller, Troschel, 1844

Pygocentrus Müller, Troschel, 1844:94. Type species: *Serrasalmus piraya* Cuvier, 1819. Type by subsequent designation by Eigenmann (1910: 442). Gender: Masculine.

Gastropristis Eigenmann, 1915:238. Type species: *Serrasalmo (Pygocentrus) ternetzi* Steindachner, 1908. Type by original designation. Gender: Feminine.

Rooseveltiella Eigenmann, 1915:240. Type species: *Pygocentrus nattereri* Kner, 1858. Type by original designation. Gender: Feminine. Additional comments: preoccupied by *Rooseveltiella* Fox, 1914 in Siphonaptera. Replaced by *Taddyella* Ihering, 1928.

Taddyella Ihering, 1928:45. Type species: *Pygocentrus nattereri* Kner, 1858. Type by being a replacement name. Gender: Feminine. Additional comments: Replacement for *Rooseveltiella* Eigenmann, 1915, preoccupied by *Rooseveltiella* Fox, 1914.

Remarks: See species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI) in Mateussi *et al.* (2018).

Pygocentrus cariba (Humboldt, 1821)

Serrasalmo cariba Humboldt, in Humboldt, Valenciennes, 1821:216, [173], Pl. 47 (fig. 1). Type locality: Orénoque. [Venezuela]. No types known.

Serrasalmus caribe Valenciennes, in Cuvier, Valenciennes, 1850:279. Type locality: Orénoque. [Venezuela]. No types known. According to Fink (1993:669) the species was redescribed by Valenciennes, in Cuvier, Valenciennes (1850) as *S. caribe*, apparently to correct the error on the text of Humboldt, Valenciennes (1821) in which the specific epithet was suppressed.

Serrasalmo (Pygocentrus) notatus Lütken, 1875a:238 [49]. Type locality: Museet i Caraccas. [Venezuela]. Syntype: ZMUC 517 (1). [See Fink (1993:681, fig. 22) for syntype image]. See Fink (1993:684) for synonym discussion.

Pygocentrus stigmaterythraeus Fowler, 1911a:424, fig. 3. Type locality: La Pedrita, on the Cano Uracoa, Venezuela. Holotype: ANSP 37868. [See Fink (1993:681, fig 23) for holotype image]. See Machado-Allison, Fink (1991:122) for discussion on species taxonomic status.

Distribution: 307, 308, 309 (Jégu, 2003; Vari *et al.*, 2009; Mateussi *et al.*, 2019).

Remarks: See Fink (1993:681) for detailed redescription and comments on specific epithet and Mateussi *et al.* (2019) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Pygocentrus nattereri Kner, 1858

Pygocentrus nattereri Kner, 1858b:166 [6]. Type locality: not given. [Kner (1860:38) later mentioned type locality as “Matogrosso und Cujaba”]. Syntypes: NMW 10585 (1), NMW 10586 (1), NMW 16167 (1, dry). [NMW 10585, 99 mm SL; NMW 10585, 102 mm SL; NMW 16167, 165 mm SL. See Fink (1993:678, fig. 14, 15) for syntypes images].

Pygocentrus altus Gill, 1870:93. Type locality: Marañon, or Upper Amazon, and Napo Rivers. [type locality from title of work, but some species described by Gill (1870) were based on specimens from the Pacific versant of the Andes; see comments for *Tetragonopterus ortonii* herein] Holotype: USNM 21432. [See Fink (1993:679, fig. 19) for holotype image]. See Fink (1993:670) for discussion on species taxonomic status.

Serrasalmo (Pygocentrus) ternetzi Steindachner, 1908b:359. Type locality: Rio Paraguay bei Descalvados. [Brazil]. Holotype: NMW. [According to Fink (1993:680) the holotype is lost. Norman (1929:790) suggested the type specimen had a bite on the anal-fin origin, and therefore it presented only 12 rays, and its origin was behind the midbody; anomalous conditions used to diagnose the species]. See Fink (1993:680) for discussion on species taxonomic status.

Distribution: 310, 315, 316, 321, 323, 324, 318, 319, 332, 343, 345, (Jégu, 2003; Vari *et al.*, 2009; Ota *et al.*, 2013; Mateussi *et al.* (2019)).

Remarks: Described as new species by Kner (1860:38). See Fink (1993:672) for detailed redescription. Mateussi *et al.* (2019) recovered phylogeographically-structured lineages within the species, using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Pygocentrus piraya* (Cuvier, 1819)**

Serrasalmus piraya Cuvier, 1819:368, Pl. 28 (fig. 4). Type locality: Brésil. [Brazil]. Holotype: MNHN A.8630. [stuffed specimen].

Serrasalmo piranha Agassiz, in Spix, Agassiz, 1829:71, Pl. 28. Type locality: Flumine Sancti Francisci, inque vicinis lacubus, piscinis, rivulis. [Brazil]. No types known. Author of species name is Agassiz according to Kottelat (1988:79)), followed by Jégu (2003).

Serrasalmo ferox Swainson, 1838:254. Type locality: not given. No types known. Considered a junior synonym of *Pygocentrus piraya* (Cuvier) by Jégu (2003:189) based on text under *Serrasalmo piranha* Agassiz, 1829, pl.28.

Distribution: 327 (Jégu, 2003; Jégu, Ingenito, 2007; Hubert *et al.*, 2007; Mateussi *et al.* (2019)).

Remarks: See Fink (1993:671) for detailed redescription, and Mateussi *et al.* (2019) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

PYGOPRISTIS Müller, Troschel, 1844

Pygopristsis Müller, Troschel, 1844:95. Type species: *Pygopristsis fumarius* Müller, Troschel, 1844. Type by subsequent designation by Eigenmann (1910:441). Gender: Feminine.

Remarks: Recovered as sister of *Catoprion* (Kolmann *et al.*, 2020, Mateussi *et al.*, 2020b).

Pygopristis denticulata (Cuvier, 1819)

Serrasalmus denticulatus Cuvier, 1819:371. Type locality: not given. [No Type locality known]. Holotype: whereabouts unknown. [No types known].

Serrasalmus punctatus Jardine, in Schomburgk, 1841:223, Pl. 17. Type locality: Guiana. [Guyana]. No types known. See Machado–Allison, Fink (1996:13) for discussion on species taxonomic status.

Pygopristis fumarius Müller, Troschel, 1844:95. Type locality: Guiana. Syntypes: ZMB 3622 (2), 6252 (2). [Appeared with more details in Müller, Troschel (1845:35, Pl. 9, fig. 2). See Zarske (2012b:335, fig. 98b, c) for detailed description and X-ray image of syntype]. See Machado–Allison (2002:43) for discussion on species taxonomic status.

Distribution: 307, 308, 310, 311, 316, 318, 321*, 322, 323, 324 (Jégu, 2003; Montag *et al.*, 2008; Rio Yata, tributary of Rio Mamoré, Madeira River Basin, Bolivia (M. Jégu, pers. comm. based on W. Staeck's photos of specimens and dentition).

Remarks: See a detailed description in Machado–Allison, Fink (1996), and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

SERRASALMUS Lacepède, 1803

Serrasalmus Lacepède, 1803:283. Type species: *Salmo rhombeus* Linnaeus, 1766. Type by monotypy. Gender: Masculine.

Serrasalmo Duméril, 1805:146, 342. Type species: *Salmo rhombeus* Linnaeus, 1766. Type by subsequent designation by Fowler (1950: 279). Gender: Masculine. Additional comments: Perhaps not intended as a new name (Jégu, 2003:190)

Pristobrycon Eigenmann, 1915:245. Type species: *Serrasalmo (Pygocentrus) calmoni* Steindachner, 1908. Type by original designation. Gender: Masculine. Additional comments: considered a junior synonym of *Serrasalmus* by Kolmann *et al.* (2020:10).

Serrasalmus altispinis Merckx, Jégu, Santos, 2000

Serrasalmus altispinis Merckx, Jégu, Santos, 2000:191, figs. 4B, 5B, 7B, 8A. Type locality: Quarenta Ilhas, fleuve Pitinga, bassin de l'Uatumã, Amazonas, Brésil. [Brazil]. Holotype: INPA 14434. [Specimen in poor condition of preservation (R. Ota, pers. obs.)].

Distribution: 314, 315*, 316, 322*, 323 (Jégu, 2003; Jégu, Ingenito, 2007; Montag *et al.*, 2008; Vari, Ferraris, 2009).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus altuvei Ramírez, 1965

Serrasalmus altuvei Ramírez, 1965b:1, fig. (p. 3). Type locality: El Polvero, Río San José, Guárico, Venezuela. Holotype: MAC 65639.

Distribution: 307, 308, 309, 314 (Jégu, Santos (1987); Jégu, 2003; Vari, Ferraris, 2009).

Remarks: See Jégu, Santos (1987:405) for a detailed description and Fink, Machado–Allison (2001:10) for comparison with *S. compressus*.

Serrasalmus aureus Agassiz, 1829

Serrasalmo aureus Agassiz, in Spix, Agassiz, 1829:72, Pl. 29. Type locality: Brasiliae aequinoctialis flaviis lacubusque. [Brazil]. No types known. [No types known according to Kottelat (1988)].

Serrasalmo gymnogenys Günther, 1864:371. Type locality: British Guiana; and River Capim, Brazil. Syntypes: (3) BMNH 1849.11.8: 33 (1), BMNH 1971.5.10: 59 (1). [BMNH 1849.11.3: 33 from Rio Capim, Brazil and BMNH 1971.5.10: 59 from Guyana (former British Guiana)]. See Jégu (2003:188) for synonymy with *Serrasalmus aureus* Agassiz, 1829.

Distribution: 311, 316 (Jégu, 2003).

Remarks: Author of species name is Agassiz according to Kottelat (1988:79); author as Spix, Agassiz in Jégu (2003). Assignment to *Serrasalmus* based on Kolmann *et al.*, 2020 :11. See Mateussi *et al.* (2020b) for a discussion on phylogenetic relationships.

Serrasalmus brandtii Lütken, 1875

Serrasalmo (s. str.) Brandtii Rhdt Lütken, 1875c:137 [11]. Type locality: Lagoa Santa. [Brazil]. Syntypes: NMW 57008 (2); SNMS 2043 (2); USNM 44964 (1), ZMUC 268 (1), ZMUC 269 (1), ZMUC 273 (1), ZMUC 276a (1), ZMUC 279 (1), ZMUC 280 (1), ZMUC 290 (1), ZMUC 295 (1), ZMUC 297 (1), ZMUC 278 (1, skel); ZMB 9195 (2). [NMW 57008, 52.2 and 85.2 mm SL. See Zarske (2012b:337, fig. 100b, c) for syntype detailed description and X-ray image].

Distribution: 327 (Jégu, 2003; Machado *et al.* (2018)).

Remarks: Also described in Lütken (1875b:237). See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus calmoni Steindachner, 1908

Serrasalmo (Pygocentrus) calmoni Steindachner, 1908b:361. Type locality: Rio Pará. [Brazil]. Syntypes: (several) NMW (apparently lost). [Syntype(s) NMW apparently lost according to Fink (1993:671)].

Pygocentrus bilineatus Eigenmann, 1909a:47. Type locality: Aruka River, British Guiana. [Guyana]. Holotype: FMNH 58075. See Machado-Allison, Fink (1996:20–23) for holotype images (fig. 12A), and discussion of species taxonomic status.

Serrasalmus coccogenis Fowler, 1911a:428, fig. 4. Type locality: La Pedrita, on the Cano Uracoa, Venezuela. Holotype: ANSP 37870. See Machado-Allison, Fink (1996:20–23) for discussion of species taxonomic status.

Pygopristis gibbosus Starks, 1913:17, Pl. 3. Type locality: Market at Pará. Holotype: CAS-SU 22226.

Distribution: 308, 309, 310, 311, 316, 323 (Jégu, 2003; Montag *et al.*, 2009; Vari *et al.*, 2009).

Remarks: See Jégu, Santos (1988:243) for detailed redescription as *Serrasalmus calmoni* Steindachner, 1908 and Machado-Allison (2002:49) for the generic allocation in *Pristobrycon*. Assignment to *Serrasalmus* based on Kolmann *et al.*, 2020:10. See Mateussi *et al.* (2020b) for a discussion on phylogenetic relationships.

Serrasalmus careospinus (Fink, Machado-Allison, 1992)

Pristobrycon careospinus Fink, Machado-Allison, 1992:69, fig. 20. Type locality: Venezuela, El Loro lagoon, Atabapo River, 1 km from San Fernando de Atabapo.

Holotype: MBUCV-V-8145.

Distribution: 308, 314 (Jégu, 2003; Vari *et al.*, 2009).

Remarks: Assignment to *Serrasalmus* based on Kolmann *et al.*, 2020:11. See Mateussi *et al.* (2020) for a discussion on phylogenetic relationships.

Serrasalmus compressus Jégu, Leão, Santos, 1991

Serrasalmus compressus Jégu, Leão, Santos, 1991:102, figs. 2 (a–b). Type locality: Bolívia: Province du Béni: Laguna Mocovi, affluent Mamoré. [Bolívia]. Holotype: MNHN 1986-0615. [See Fink, Machado-Allison (2001:15, fig. 14) for paratypes images].

Distribution: 316, 318, 319, 321 (Jégu, 2003; Jégu *et al.*, 2013; Ota *et al.*, 2013).

Remarks: See Fink, Machado-Allison (2001:10) for comparison with *S. altuwei*; Ota *et al.* (2013:31) for a brief diagnosis; and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus eigenmanni Norman, 1929

Serrasalmus eigenmanni Norman, 1929:804, fig. 16. Type locality: Rockstone, British Guiana. [Guyana]. Holotype: BMNH 1911.10.31.496.

Distribution: 307, 308, 309, 310, 311, 314, 315, 316, 318, 319, 321, 322, 323, 324 (Jégu, 2003; Jégu *et al.*, 2013; Ota *et al.*, 2013; Giarrizzo *et al.*, 2015).

Remarks: See Jégu, Santos (1988:253) for detailed description; and Machado-Allison, Fink (1996:84) for paratype illustration (fig. 59).

Serrasalmus elongatus Kner, 1858

Serrasalmo elongatus Kner, 1858b:167 [7]. Type locality: not given. [Kner (1860:45) later mentioned the type locality as “Rio Guaporé, Matogrosso”]. Possible syntypes: NMW 18903 (1), NMW 18904 (1), NMW 57016 (1), NMW 16343 (1 dry), NMW 16345 (1 dry), NMW 16240 (1 dry). [Machado-Allison, Fink (1996:69, fig. 46) illustrated a syntype, but did not mention the number of the lot].

Serrasalmus pingke Fernández-Yépez, 1951:[1], figure on 3rd unnumbered p. Type locality: Río Apure, La Defensa, suroeste de San Fernando de Apure, Estado Apure, Venezuela. Holotype: MHNLS 1021 [not 1903]. See Machado-Allison, Fink (1996:67) for discussion on species taxonomic status; and type illustration (fig. 44).

Distribution: 306, 307, 308, 313, 314, 316, 318, 319, 321, 323 (Jégu, 2003; Vari, Ferraris, 2009; Ota *et al.*, 2013).

Remarks: Kner (1860:45) described the species as new. See Ota *et al.* (2013:33) for a brief diagnosis, and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus geryi Jégu, Santos, 1988

Serrasalmus geryi Jégu, Santos, 1988:248, Pl. 8 (fig. 2). Type locality: Araguacema, rio Araguaia. Holotype: INPA 999.

Distribution: 324, 344* (Jégu, 2003; Jégu, Ingenito, 2007; J. Zuanon, pers. comm.).

Serrasalmus gibbus Castelnau, 1855

Serrasalmus gibbus Castelnau, 1855:71, Pl. 38 (fig. 1). Type locality: Araguay [Brazil]. Holotype: MNHN A.8648. [stuffed specimen].

Distribution: 324 (Jégu, 2003).

Remarks: See Jégu, Santos (1988:253) for detailed description and Machado *et al.*

(2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus gouldingi Fink, Machado–Allison, 1992

Serrasalmus gouldingi Fink, Machado–Allison, 1992:58, figs. 2, 12–14. Type locality: Brazil, Rio Negro, Anavilhanas. Holotype: MZUSP 42363.

Distribution: 307, 308, 314, 315, 316, 323 (Jégu, 2003; Jégu, Ingenito, 2007; Vari, Ferraris, 2009).

Remarks: See Machado–Allison, Fink (1996:75) for a brief description; and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus hastatus Fink, Machado–Allison, 2001

Serrasalmus hastatus Fink, Machado–Allison, 2001:4, figs. 2–8. Type locality: Brazil, Rio Branco, Marara, beach. Holotype: MZUSP 66893.

Distribution: 314 (Jégu, 2003).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus hollandi (Eigenmann, 1915)

Serrasalmo hollandi Eigenmann, 1915:251, Pl. 48. Type locality: Maciél, Rio Guaporé. Holotype: FMNH 56978.

Distribution: 318, 319, 320*, 321 (Jégu, 2003; Ota *et al.*, 2013; Jégu *et al.*, 2013).

Remarks: See Ota *et al.* (2013:33) for a brief diagnosis.

Serrasalmus humeralis Valenciennes, 1850

Serrasalmus humeralis Valenciennes, in Cuvier, Valenciennes, 1850:279. Type locality: Amazone. [Amazonas, Brazil is an erroneous locality and according to Castelnau (1855:71), type locality is Araguay (Araguaia riv., Tocantins basin)]. Holotype: MNHN A.9735. [Holotype figured by Castelnau (1855:pl. 37, fig. 2) and by Géry (1964a:605, fig. 3)].

Serrasalmo iridopsis Cope, 1872b:268, Pl. 9 (fig. 2). Type locality: Ambyiacu. [Rio Ampyiacu, Peru]. Holotype: ANSP 7913. [Fowler (1907:471); Böhlke (1984:49)]. According to Géry (1977:283), the species is questionably a junior synonym of *Serrasalmus humeralis* (Valenciennes, 1850).

Distribution: 323, 324 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: See Géry (1964a:604) for detailed redescription.

Serrasalmus irritans Peters, 1877

Serrasalmo irritans Peters, 1877a:472. Type locality: von Fernando de Apure [Venezuela]. Holotype: ZMB 10045. [See Zarske (2012b:338, fig. 101a, b) for holotype detailed description and X-ray image].

Serrasalmus fernandesi Fernández-Yépez, 1965a:[1], figure. Type locality: El Polvero, Río San José, Estado Guárico, Venezuela. Holotype: MACLPI 65637.

See Machado–Allison, Fink (1996:78) for discussion of species taxonomic status.

Distribution: 307, 308, 309 (Jégu, 2003; Vari, Ferraris, 2009).

Remarks: See description and distribution in Machado–Allison, Fink (1995, 1996).

Serrasalmus maculatus Kner, 1858

Serrasalmo maculatus Kner, 1858b:166 [6]. Type locality: not given. [Kner (1860:41) later mentioned the type locality as “Matogrosso, Rio Guapore” (Brazil)]. Lectotype: NMW 17995. [Designated and illustrated by Jégu, Santos (2001:122,

127, figs. 1b, 4)].

Serrasalmo aesopus Cope, 1872b:269. Type locality: From the Marañon between the mouth of the Rio Negro, Brazil, and the Huallaga, Peru. Holotype: ANSP 7914. [Fowler (1907:469); Böhlke(1984:42)]. See Jégu (2003:191) for discussion on species taxonomic status.

Distribution: 316, 318, 319, 321, 323, 324, 332, 333, 343, 344, 345, 347 (Jégu, 2003; Vari, Ferraris, 2009; Ota *et al.*, 2013).

Remarks: Kner (1860:41) described the species as new. See Jégu, Santos (2001:129) for species redescription and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI). Bignotto *et al.* (2010) suggested it is a species complex.

Serrasalmus maculipinnis (Fink, Machado–Allison, 1992)

Pristobrycon maculipinnis Fink, Machado–Allison, 1992:66, fig. 19. Type locality: Venezuela, Caño Doyotomoni, tributary of the Pamoni River, 4 km south of the confluence with the Casiquiare River. Holotype: MBUCV-V-16421.

Distribution: 308 (Jégu, 2003; Vari *et al.*, 2009).

Remarks: Kolmann *et al.* (2020:10), did not analyze *Pristobrycon maculipinnis*, but synonymized the genus *Pristobrycon* with *Serrasalmus*. See Mateussi *et al.* (2020b) for a discussion on phylogenetic relationships.

Serrasalmus manueli (Fernández–Yépez, Ramírez, 1967)

Pygocentrus manueli Fernández–Yépez, Ramírez, 1967:11, fig. 4. Type locality: Río Paragua, Venezuela. Holotype: MACLPI 57247.

Distribution: 307, 308, 314, 315, 316, 320, 321, 322 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: See Machado–Allison, Fink (1996) for a brief diagnosis and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus marginatus Valenciennes, 1837

Serrasalmus marginatus Valenciennes, 1837:no p., Pl. 10 (fig. 1). Type locality: not given. [Valenciennes, in Cuvier, Valenciennes (1850:277) later mentioned the type locality as “Parana, dans la province de Corrientes”]. Syntypes: MNHN A-9734 (3).

Distribution: 318, 319, 343, 344, 345 (Jégu, 2003; Jégu, Ingenito, 2007; Pouilly *et al.*, 2010).

Remarks: Valenciennes (1850:277) described the species as new, using plate 10: fig 1 of d’Orbigny. Although only one specimen was figured on plate 10, based on the information of the original description, it is not possible to identify the holotype among the three specimens catalogued under MNHN A-9734. See Ota *et al.* (2018:53) for a brief description; and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Serrasalmus medinai Ramírez, 1965

Serrasalmus medinai Ramírez, 1965a:1, fig. on p. 2. Type locality: El Polvero, Río San José, Guárico, Venezuela. Holotype: MAC 65622.

Distribution: 306, 307, 308, 309 (Jégu, 2003; Vari, Ferraris, 2009).

Remarks: See Machado–Allison, Fink (1996) for a brief diagnosis.

Serrasalmus nalseni Fernández–Yépez, 1969

Serrasalmus nalseni Fernández-Yépez, 1969:unnumbered p. 3. Type locality: Río Uracoa, 9°10'N, 62°27'W, Estado Monagas, Venezuela. Neotype: MBUCV-V-35389. [Neotype designated by Machado-Allison *et al.* (2009:122, figs. 1–4)].

Distribution: 307, 308, 309 (Jégu, 2003; Vari, Ferraris, 2009).

Remarks: See Machado-Allison *et al.* (2009:122) for species redescription.

Serrasalmus neveriensis Machado-Allison, Fink, López Rojas, Rodenas, 1993

Serrasalmus neveriensis Machado-Allison, Fink, López Rojas, Rodenas, 1993:48, figs. 4–7. Type locality: Río Querecual, tributario Río Neverí, Querecual, Anzoátegui. [Venezuela]. Holotype: MBUCV-V-15439.

Distribution: 304, 309 (Jégu, 2003; Lasso *et al.*, 2004).

Remarks: See Machado-Allison, Fink (1996) for a brief diagnosis.

Serrasalmus odyssei Hubert, Renno, 2010

Serrasalmus odyssei Hubert, Renno, 2010:49, 52. Type locality: Bolivia, Madeira, Rio Itenez, Bella vista, 13°31.1'S, 061°33.2'W. Holotype: MNHN 2005-2216. [167.2 mm LS].

Distribution: 318, 319, 321 (Ota *et al.*, 2013).

Remarks: See Ota *et al.* (2013:37) for a brief diagnosis.

Serrasalmus rhombeus (Linnaeus, 1766)

Salmo rhombeus Linnaeus, 1766:514. Type locality: Surinam. [Locality of neotype: Suriname Rivier près de Brokopondo, Suriname (Géry, 1972a:229)]. Neotype: RMNH 26192. [Neotype designated and figured by Géry (1972a:229, plate 12, fig. 1), 155 mm SL].

Serrasalmus niger Jardine, in Schomburgk, 1841:225, Pl. 18. Type locality: Rivers in Guiana. [Guyana]. No types known. [See Zarske (2012b:339) for a discussion on type status of ZMB 3631, and the confirmation it is not a type specimen]. See Fink (1993:670) for discussion of species taxonomic status.

Serrasalmo immaculatus Cope, 1878:692. Type locality: Near Pebas, Peruvian Amazon. Lectotype: ANSP 21503. [Designated by Fowler (1907:471, fig. 54). Treated as holotype by Böhlke (1984:48)]. Genus misspelled *Serrasalimo* in main heading. See Jégu (2003:192) for discussion of species taxonomic status.

Serrasalmo (*Serrasalmo*) *paraense* Steindachner, 1908b:362. Type locality: Rio Pará. [Brazil]. Syntypes: NMW 10587 (1) and NMW 570667. According to Jégu (2003:192) is questionably a synonym of *Serrasalmus rhombeus* (Linnaeus, 1766).

Serrasalmo humeralis var. *gracilior* Eigenmann, 1915:257, fig. 9. Type locality: Maciél, Rio Guaporé. [Brazil]. Syntypes: FMNH 56977 (3). See Norman (1929:800) for discussion of species taxonomic status.

Serrasalmus boekeri Ahl, 1931b:406, figure unnumbered p. 408. Type locality: Amazonas. Holotype: ZMB (not found). [Holotype is lost according to Zarske (2012b:333, 336)]. Considered a synonym of *Serrasalmus rhombeus* (Linnaeus 1766) by Jégu (2003).

Serrasalmus (*Taddyella*) *normani* Géry, 1964a:614, figs. 4, 5a. Type locality: Suriname, Paramaribo area. Holotype: ZMH H1601. [See Géry (1964a:611, fig. 4) for holotype illustration]. Synonymy proposed by Géry (1972a:228, 233).

Distribution: 304, 306, 307, 308, 309, 310, 311, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324 (Jégu, 2003; Jégu, Ingenito, 2007; Vari, Ferraris, 2009).

Remarks: See Jégu, Santos (1988:253) for detailed redescription. The occurrence in Argentina is considered a mistake (M. Jégu, pers. obs.). See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Serrasalmus sanchezi* Géry, 1964**

Serrasalmus (*Serrasalmus*) *sanchezi* Géry, 1964b:27, fig. 22. Type locality: Caño Yarina, en bordure du Rio Picaya, affluent du Canal de Puinahua (bras du bas Rio Ucayali). [Peru]. Holotype: ZFMK 1216.

Distribution: 316 (Jégu, 2003).

***Serrasalmus scapularis* Günther, 1864**

Serrasalmo scapularis Günther, 1864:368. Type locality: Essequibo River. [Guyana]. Syntypes: BMNH 1864.1.21.34 (1), BMNH 1864.1.21.35 (1), BMNH 1864.1.21.36 (1), BMNH 1971.5.10.58 (1). [Norman (1929: 793) restricted the syntypes to lots BMNH 1864.1.21.34 (1), BMNH 1864.1.21.35 (1), BMNH 1864.1.21.36 (1)].

Serrasalmo (*Pygocentrus*) *striolatus* Steindachner, 1908b:360. Type locality: Rio Pará. [Brazil]. Syntypes: NMW 10583 (1) and NMW 10584 (1). [Wrongly considered the senior synonym of *S. scapularis* by Géry (1976:53) and Jégu (2003:188)].

Pristobrycon baratai Amaral Campos, 1946:218, fig. 1. Type locality: Rio Tapajós, Santarém. [Brazil]. Holotype: MZUSP 3630. Considered by Géry (1976:53) a junior synonym of *Pristobrycon striolatus* (Steindachner, 1908).

Pygopristis antoni Fernández-Yépez, 1965b:1, fig. 1. Type locality: Río San José, Estado Guárico, Venezuela. Holotype: MACLPI 65635-A. Considered by Géry (1976:53) a junior synonym of *Pristobrycon striolatus* (Steindachner, 1908).

Distribution: 307, 308, 309, 310, 311, 315, 316, 322, 323 (Jégu, 2003; Vari *et al.*, 2009; Giarrizzo *et al.*, 2015).

Remarks: Géry (1976:53) and Jégu (2003:188) considered *Serrasalmo scapularis* Günther, 1864 a junior synonym of *Serrasalmus striolatus* Steindachner, 1908. However, *Serrasalmo scapularis* is an older name and it has priority over *Serrasalmus striolatus*. Therefore, we suggest *Serrasalmus scapularis* Günther, 1864 as valid. Kolmann *et al.*, 2020:11 considered both species to be unrelated to *Serrasalmus* and to warrant a new genus. *Serrasalmus scapularis* is herein assigned to *Serrasalmus* until a formal generic description is proposed to allocate the species and its intra- and interspecific limits with *S. striolatus* are evaluated.

***Serrasalmus serrulatus* (Valenciennes, 1850)**

Pygopristis serrulatus Valenciennes, in Cuvier, Valenciennes, 1850:300. Type locality: Amazone. [Brazil]. Holotype: MNHN A.9858. [See Géry (1964a:601, fig. 2) for holotype illustration].

Distribution: 310, 311, 314, 316 (Jégu, 2003; Jégu, Ingenito, 2007).

Remarks: See Géry (1964a:600) for detailed redescription and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

***Serrasalmus spilopleura* Kner, 1858**

Serrasalmo spilopleura Kner, 1858b:166. Type locality: not given. [Kner (1860:44) later mentioned the type locality as “Matogrosso, Rio Guaporé, Bogota”]. Lectotype: NMW 57085. [Designated and figured by Jégu, Santos (2001:122,

124, figs. 1a, 3)].

Distribution: 316, 318, 319, 321 (Jégu, 2003).

Remarks: Kner (1860:44) described the species as new. See Jégu, Santos (2001:119) for detailed redescription and a discussion on species status and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Species inquirendae (Serrasalmus)

Pygocentrus palometa Valenciennes, in Cuvier, Valenciennes, 1850:296. Type locality: Rio Apure, Rio Guarico, et le bas Orénoque. [Venezuela]. No types known.

Remarks: Listed as a *nomen dubium* by Valenciennes (in Cuvier, Valenciennes, 1850), and species *incerta* by Géry (1976:48). No additional comments in taxonomic review of *Pygocentrus* by Fink (1993).

Serrasalmo emarginatus Jardine, in Schomburgk, 1841:231, Pl. 19. Type locality: not given. No types known Jégu (2003).

Remarks: Species *inquirenda* according to Jégu (2003).

Serrasalmo nigricans Agassiz, in Spix, Agassiz, 1829:72, Pl. 30. Type locality: Brasiliae aequatorialis flaviis. [Brazil]. No types known. [Author of species name is Agassiz according to Kottelat (1988:79) followed by Jégu (2003). According to Fink (1993:670), there is no evidence that the specimen examined by Müller, Troschel (1844:95) (currently ZMB 3630) was the type of *Serrasalmo nigricans* Agassiz, Fink (1993:670) also reported slightly different counts from those reported in the original description and some counts given by Agassiz do not match with Spix's drawing].

Remarks: Analysis of the original description (Agassiz in Spix, Agassiz, 1829:72, Pl. 30) indicates the species corresponds to a *Serrasalmus* species, and not to *Pygocentrus* as proposed by Müller, Troschel (1844:95). However, there is not enough information to elucidate its taxonomic status.

Serrasalmo nigricauda Burmeister, 1861:536. Type locality: Del Río Paraná, cerca de Rosario. [Argentina]. No types known.

Remarks: Mirande, Koerber (2015b:16) mentioned this species has been forgotten and its identity is doubtful because no types are known and the original description does not allow for a clear identification (see Koerber, Litz, 2008).

Serrasalmo scotopterus Jardine, in Schomburgk, 1841:233. Type locality: Rio Branco. No types known.

Remarks: Species *inquirenda* according to Jégu (2003).

Serrasalmo stagnatilis Jardine, in Schomburgk, 1841:222. Type locality: Upper Essequibo. [Guyana]. No types known.

Remarks: Species *inquirenda* according to Jégu (2003).

Serrasalmo undulatus Jardine, in Schomburgk, 1841:232. Type locality: River Padauri. [correct name is rio Padauari, tributary to rio Negro, Amazonas, Brazil]. No types known.

Remarks: Species *inquirenda* according to Jégu (2003).

Serrasalmus auriventris Burmeister, 1861:536. Type locality: Río Paraná, bei der Quinta. ["Quinta" refers to the small farm Burmeister possessed at west of the city of

Paraná right at the bank of the river Paraná (Burmeister, 1861:432–433), Argentina]. No types known.

Remarks: Mirande, Koerber (2015b:16) mentioned this species has been forgotten and its identity is doubtful because no types are known and the original description does not allow a clear identification (see Koerber, Litz, 2008).

TOMETES Valenciennes, 1850

Tometes Valenciennes, in Cuvier, Valenciennes, 1850:225. Type species: *Tometes trilobatus* Valenciennes, 1850. Type by subsequent designation by Jordan (1919: 242). Gender: Masculine.

Remarks: Recovered as paraphyletic in recent molecular phylogenies (Kolmann *et al.*, 2020; Mateussi *et al.*, 2020b). Morphological diagnosis based on teeth arrangement is homoplastic and more comprehensive studies are required to understand its composition and relationship with remaining serrasalmid genera.

Tometes ancylorhynchus Andrade, Jégu, Giarrizzo, 2016

Tometes ancylorhynchus Andrade, Jégu, Giarrizzo, 2016a:479, figs. 3b, 4b, 12–14. Type locality: Cachoeira do Jericoá, Vitória do Xingu, Rio Xingu, Pará, Brazil, 3°21'52.3"S, 51°44'02.7"W. Holotype: MPEG 31014.

Distribution: 322, 324 (Andrade *et al.*, 2016a).

Remarks: See Andrade *et al.* (2017) for identification key and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes camunani Andrade, Giarrizzo, Jégu, 2013

Tometes camunani Andrade, Giarrizzo, Jégu, 2013:298, figs. 1–3. Type locality: Brazil, Pará, Trombetas basin, rio Erepecuru, upstream of the Cachoeira do Chuvisco, 00°59'59"S, 56°04'42"W. Holotype: MPEG 23447.

Distribution: 315 (Andrade *et al.*, 2013).

Remarks: See Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes kranponhah Andrade, Jégu, Giarrizzo, 2016

Tometes kranponhah Andrade, Jégu, Giarrizzo, 2016a:469, figs. 1, 2 (A–B), 3 (A), 4 (A), 5, 7–9. Type locality: Cachoeira do Espelho, Rio Xingu, Altamira, Pará, Brazil, 3°38'49.9"S, 52°22'54.5"W. Holotype: MPEG 31000.

Distribution: 322 (Andrade *et al.*, 2016a).

Remarks: See Andrade *et al.* (2017) for identification key and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes lebaili Jégu, Keith, Belmont-Jégu, 2002

Tometes lebaili Jégu, Keith, Belmont-Jégu, 2002:26, figs. 2–5, 7–12. Type locality: Rapides dans un bief du canal principal, en amont du village Antecume Pata (03°18'06.4" Nord et 54°04'54.1" Ouest), riv. Litany, fl. Maroni. [French Guiana]. Holotype: MNHN 2001-2384.

Distribution: 311 (Andrade *et al.*, 2016a; Jégu, 2003).

Remarks: See Andrade *et al.* (2013:304) for identification key and Machado *et al.*

(2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes makue Jégu, Santos, Belmont-Jégu, 2002

Tometes makue Jégu, Santos, Belmont-Jégu, 2002:254, figs. 2, 4 (A–B), 5 (A–C), 6–12, 13 (A), 14–16. Type locality: Brésil: Amazonas: Ile d’ A cara, en aval de São Gabriel da Cachoeira, rio Negro. [Brazil]. Holotype: INPA 7344.

Distribution: 307, 308, 314 (Andrade *et al.*, 2016a; Jégu, 2003).

Remarks: See Andrade *et al.* (2013:304) for identification key and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes siderocarajensis Andrade, Machado, Jégu, Farias, Giarrizzo, 2017

Tometes siderocarajensis Andrade, Machado, Jégu, Farias, Giarrizzo, 2017:4, figs. 1, 2a–b, 3, 4. Type locality: Itacaiúnas River, nearby Paulo Fontelles Road, Caldeirão, Serra dos Carajás, Tocantins–Araguaia River basin, Parauapebas, Pará, Brazil, 5° 52’38.2”S, 50° 29’27.8”W. Holotype: MPEG 33922.

Distribution: 324 (Andrade *et al.*, 2016).

Remarks: See Andrade *et al.* (2017) for identification key and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Tometes trilobatus Valenciennes, 1850

Tometes trilobatus Valenciennes, in Cuvier, Valenciennes, 1850:226. Type locality: Cayenne. [French Guiana]. Lectotype: MNHN A.8650. [Designated and figured by Jégu *et al.* (2002:102, 116, fig. 18). Types with wrong SL in Jégu *et al.* (2002), see Andrade *et al.* (2017) for dentition illustration and correct information on SL of lectotype. Stuffed specimens].

Tometes unilobatus Valenciennes, in Cuvier, Valenciennes, 1850:228. Type locality: Cayenne. [French Guiana]. Holotype: MNHN A.8651. [Stuffed specimen. See Jégu, Santos (2002:53, fig. 12b) for holotype image]. See Jégu, Santos (2002:53) for detailed description of type specimen and for comparison with *Myleus setiger*.

Distribution: 311, 315*, 323 (Andrade *et al.*, 2016a; Jégu, 2003).

Remarks: Jégu *et al.* (2002) considered *Tometes unilobatus* a junior synonym of *Tometes trilobatus*, thus acting as first revisers in establishing priority. See Jégu *et al.* (2002:102) for species redescription; Andrade *et al.* (2013) for identification key and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

UTIARITICHTHYS Miranda-Ribeiro, 1937

Utiaritichthys Miranda-Ribeiro, 1937a:58. Type species: *Utiaritichthys sennaebregai* Miranda-Ribeiro, 1937. Type by monotypy. Gender: Masculine.

Remarks: Recovered as paraphyletic in the recent molecular phylogeny of Mateussi *et al.* (2020b). Morphological diagnosis based on elongate body. More comprehensive studies are required to understand its validity, composition and relationship with remaining serrasalmid genera.

Utiaritichthys esguiceroi Pereira, Castro, 2014

Utiaritichthys esguiceiroi Pereira, Castro, 2014:398, figs 1–2. Type locality: Mato Grosso: rio Tapajós drainage, rio Juruena, nearby the município de Sapezal, 12° 51' 29" S, 58° 55' 23" W, Brazil. Holotype: LIRP 8184.

Distribution: 320 (Pereira, Castro, 2014).

Remarks: See discussion in Andrade *et al.* (2016b) for differentiation from *Myloplus* species.

Utiaritichthys longidorsalis Jégu, Tito de Morais, Santos, 1992

Utiaritichthys longidorsalis Jégu, Tito de Morais, Santos, 1992:114, figs. 7A–B. Type locality: Bassin du Madeira, rio Aripuanã, 3 km en amont de la chute Dardanellos, MT. [Brazil]. Holotype: INPA 3638.

Distribution: 321 (Jégu, 2003; Pereira, Castro, 2014).

Remarks: See Pereira, Castro 2014 for identification key; and Machado *et al.* (2018) for species delimitation using mitochondrial gene cytochrome c oxidase subunit I (COI).

Utiaritichthys sennaebregai Miranda-Ribeiro, 1937

Utiaritichthys Sennae Bregai Miranda-Ribeiro, 1937a:58. Type locality: Upstream of Salto Utiarity, Affluent of Rio Papagaio, Mato Grosso, Brazil. [Lectotype from: Brésil, Mato Grosso, Bassin du Tapajós, affluent du rio Papagaio, en amont de Salto Utiarity (58° 15' Ouest, 13° Sud) (Jégu *et al.*, 1992:107)]. Lectotype: MNRJ 12154. [Designated by Miranda-Ribeiro (1953:397) and recataloged in Jégu *et al.* (1992:112)].

Distribution: 320 (Jégu, 2003; Pereira, Castro, 2014).

Remarks: See Pereira, Castro, 2014 for identification key.

***Species inquirendae* (Serrasalminidae)**

Charax serratus Gronovius, in Gray, 1854:155. Type locality: Habitat Surinami. [Suriname]. No types known.

Salmo 30-radiatus Larrañaga, 1923:388. Type locality: Uruguay. No types known.

Remarks: Status of species discussed by Mateussi *et al.* (2018:298).

TARUMANIIDAE de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017 M Toledo-Piza

Tarumaniidae de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017:5. Type genus: *Tarumania* de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017.

TARUMANIA de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017

Tarumania de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017:7. Type species: *Tarumania walkerae* de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017. Type by original designation. Gender: Feminine.

Tarumania walkerae de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017

Tarumania walkerae de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017:7, figs. 1–3. Type locality: marginal pool of Igarapé Tarumã-Mirim (tributary to Rio Negro),

Amazonas State, Manaus, Brazil (02.90965°S, 60.22915°W). Holotype: INPA 33737.

Distribution: 314 (de Pinna, Zuanon, Rapp Py-Daniel, Petry, 2017).

TRIPORTHEIDAE Fowler, 1940

Agoniateini Bleeker, 1859 (correct spelling Agoniatinae): XXXII. Type genus: *Agoniates* Müller, Troschel, 1845. Additional comments: Bleeker (1859) misspelled Agoniateini. Eigenmann (1909:255) corrected the stem to Agoniat-, confirmed by Dagosta, Datovo (2013).

Chalcininae Eigenmann, 1912a:376. Type genus: *Chalcinus* Valenciennes in Cuvier, Valenciennes, 1850. Additional comments: Also referred as Chalcinae by Fowler (1913b:560).

Triporthestinae Fowler, 1940b:91. Type genus: *Triporthestus* Cope, 1872. Additional comments: Name in prevailing recent practice, instead of Chalcininae Eigenmann (1912a).

Clupeocharacidi Fowler, 1958:9. Type genus: *Clupeocharax* Pearson, 1924.

AGONIATES Müller, Troschel, 1845

FCP Dagosta

Agoniates Müller, Troschel, 1845:19. Type species: *Agoniates halecinus* Müller, Troschel, 1845. Type by monotypy. Gender: Masculine.

Agoniates anchovia Eigenmann, 1914

Agoniates anchovia Eigenmann, 1914b:46. Type locality: Villa Bella. [Zarske, Géry (1997c) reported that Eigenmann (1914b, 1916a) stated that the types of *Agoniates anchovia* were collected in the upper Madeira, in Villa Bella, a small town at the confluence of the rio Béni with the rio Mamoré, on the Bolivian side, not in Villa Bella da Imperatriz on the Solimoes, now Parintins, Brazil. However, it is not possible to find this statement in Eigenmann (1914b, 1916a)]. Holotype: FMNH 56401.

Agoniates ladigesi Géry, 1963b:266, fig. 1–5, 7, Pl. 4. Type locality: Amazone péruvienne, district de Loreto entre Iquitos et Leticia. Holotype: ZMH H1565. Name appeared first in title at page 265.

Distribution: 307, 309, 316, 317, 318 (Zarske, Géry, 1997c; Lasso *et al.*, 2004; Bogotá-Gregory, Maldonado-Ocampo, 2006; Queiroz *et al.*, 2013; Carvajal-Vallejos *et al.*, 2014).

Remarks: More frequent in Amazonian white rivers. See further morphological details in Dagosta, Datovo (2013).

Agoniates halecinus Müller, Troschel, 1845

Agoniates halecinus Müller, Troschel, 1845:33, Pl. 7 (fig. 2). Type locality: Guiana. Holotype: ZMB 3618.

Distribution: 310, 314, 315, 320, 312, 322, 323, 324 (Zarske, Géry, 1997c; Camargo *et al.*, 2004; Mérona *et al.*, 2010; Bartolette *et al.*, 2012; Queiroz *et al.*, 2013).

Remarks: More frequent in Amazonian rivers draining the Brazilian and Guyanese shields. See further morphological details in Dagosta, Datovo (2013).

CLUPEACHARAX Pearson, 1924

CR Moreira

Clupeacharax Pearson, 1924:46. Type species: *Clupeacharax anchoveoides* Pearson, 1924. Type by monotypy. Gender: Masculine.

Clupeacharax anchoveoides Pearson, 1924

Clupeacharax anchoveoides Pearson, 1924:47, Pls. 7 (fig. 3), 11 (fig. 2). Type locality: Cachuela Esperanza. [Cachuela Esperanza, Río Beni, Bolivia]. Holotype: CAS 41312.

Distribution: 316, 318, 319, 321, 342, 345 (Jégu *et al.*, 2012; Lima *et al.*, 2013; López *et al.*, 2003; Ortega *et al.*, 2012; Polaz *et al.*, 2014, DoNascimento *et al.*, 2017; Dagosta, de Pinna, 2019).

ENGRAULISOMA Castro, 1981

CR Moreira

Engraulisoma Castro, 1981:135. Type species: *Engraulisoma taeniatum* Castro, 1981. Type by original designation. Gender: Neuter.

Engraulisoma taeniatum Castro, 1981

Engraulisoma taeniatum Castro, 1981:137, fig. 1. Type locality: Brasil. Mato Grosso: Rio Cuiabá, Município de Poconé. Holotype: MZUSP 14704.

Distribution: 307, 316, 318, 321, 343, 345 (Albert *et al.*, 2011; Lima *et al.*, 2013; Liotta, 2005; Ortega *et al.*, 2012; Dagosta, de Pinna, 2019).

LIGNOBRYCON Eigenmann, Myers, 1929

MC Malabarba

Lignobrycon Eigenmann, Myers, 1929:513. Type species: *Lignobrycon ligniticus* Woodward, 1898. Type by original designation. Gender: Masculine.

Moojenichthys Miranda-Ribeiro, 1956:546. Type species: *Moojenichthys myersi* Miranda-Ribeiro, 1956. Type by original designation. Gender: Masculine.

Lignobrycon myersi (Miranda-Ribeiro, 1956)

Moojenichthys myersi Miranda-Ribeiro, 1956:546. Type locality: Braço river, Ilhéos. [Ilhéos, Bahia Brazil]. Holotype: MNRJ 4127.

Distribution: 328 (Castro, Vari, 1990).

TRIPORTHEUS Cope, 1872

MC Malabarba

Chalcinus Valenciennes, in Cuvier, Valenciennes, 1850:258. Type species: *Chalcinus brachipomus* Valenciennes, 1850. Type by subsequent designation by Eigenmann, 1910:440. Gender: Masculine. Additional comments: Preoccupied by *Chalcinus Rafinesque* (1815), in Hymenoptera.

Triportheus Cope, 1872b:263. Type species: *Triportheus albus* Cope, 1872. Type by subsequent designation by Jordan, 1919b:363. Gender: Masculine.

Coscinoxyron Fowler, 1907:450. Type species: *Chalcinus culter* Cope, 1872. Type by

original designation. Gender: Neuter.

Triportheus albus Cope, 1872

Triportheus albus Cope, 1872b:264, Pls. 8 (fig. 3), 14 (fig. 2). Type locality: from the Ambyiacu. [Rio Ampyacu, Peru, Amazon drainage]. Holotype: ANSP 21234 (damaged young specimen). [Fowler (1907:447); Böhlke(1984:42); Malabarba MC (2004:186)].

Chalcinus knerii Steindachner, 1876c:98 [50], Pl. 12 (fig. 4). Type locality: Amazonas (bei Teffe?). [rio Amazonas, questionably in Tefé, Brazil]. Holotype: whereabouts unknown, not at NMW.

Chalcinus rotundatus Iquitensis Nakashima, 1941:65, figure. Type locality: cercanias del puerto de Iquitos. [Puerto de Iquitos, Iquitos, Peru, rio Amazonas drainage]. No types known. [No type was designated for *Chalcinus rotundatus iquitensis*].

Chalcinus rotundatus Nakashima, 1941:64, figure. Type locality: cercanias del puerto de Iquitos. [Puerto de Iquitos, Iquitos, Peru, rio Amazonas drainage]. No types known. [No type was designated for *Chalcinus rotundatus*]. The name in the main heading is *Chalcinus rotundatus*; the name in the caption to figure is *Chalcinus rotundatus Iquitensis*. Apparently, the latter was an error of the author.

Distribution: 314, 315, 316, 318, 323, 324 (Malabarba, 2004; Nakagawa, 2011).

Triportheus angulatus (Spix, Agassiz, 1829)

Chalceus angulatus Spix, Agassiz, 1829:67, Pl. 34. Type locality: Habitat “in Brasiliae aequinoctialis fluviis”. [Neotype locality: ilha do Pregó opposite to Alvarães, rio Solimões, Amazonas, Brazil, 3°10'37"S, 64°48'1"W (Malabarba, 2004:172)]. Neotype: MCP 29943. [Designated by Malabarba (2004:172)].

Chalcinus Müllerii De Filippi, 1853:165 [3]. Type locality: Hab. In Rio Napo. [the type label cites the locality as “Rio Negro Brasile” (Malabarba, 2004:172)]. Holotype: MZUT 92641.

Triportheus flavus Cope, 1872b:264, Pl. 14 (fig. 1). Type locality: “fishes of the small streams tributary to the Ambyiacu, as well as those of the river itself” and “between the mouth of the Rio Negro and the Peruvian Amazon or Ucayale River”. Lectotype: ANSP 8077. [Fowler (1907:448); Böhlke(1984:46); Malabarba (2004:172)].

C. fuscus Garman, 1890b:4. Type locality: Villa Bella and Lake Hyanyary. [Brazil]. Syntypes: MCZ 21270 (18), MCZ 21186 + MCZ 21190 + MCZ 21191 (10). [Described as a subspecies of *Chalcinus angulatus* (= *Chalceus angulatus* Spix, Agassiz, 1829)].

C. vittatus Garman, 1890b:4. Type locality: José Fernandez, Villa Bella, Porto do Moz, and Santarem. [Brazil]. Syntypes: MCZ 21183+ 21187 + 21189 (10), MCZ 21224 (33), MCZ 21216 (3), MCZ 21175 + MCZ 21201 + MCZ 21202 + MCZ 21239 + MCZ 21240 (22). [Described as a subspecies of *Chalcinus angulatus* (= *Chalceus angulatus* Spix, Agassiz, 1829)].

Distribution: 310, 315, 316, 318 (Malabarba, 2004; Nakagawa, 2011).

Remarks: Author of species name is Agassiz according to Kottelat (1988:79), author as Spix, Agassiz in Lima *et al.* (2003) and Malabarba MC (2004).

Triportheus auritus (Valenciennes, 1850)

Chalcinus auritus Valenciennes, in Cuvier, Valenciennes, 1850:262. Type locality:

Amazone. [Neotype locality: Anavilhanas, rio Negro, Amazonas, Brazil, 2° 42'S, 60° 45'W (Malabarba, 2004:179)]. Neotype: MZUSP 58859. [Designated by Malabarba (2004:179)].

Chalcinus elongatus Günther, 1864:342. Type locality: Hab.-?. [Original description only mentioned that specimen originated from the Collection of the Zoological Society]. Holotype: BMNH 1852.9.13.10.

Chalcinus amazonensis Miranda-Ribeiro, 1941:174. Type locality: Rio Amazonas. [Brazil]. Holotype: MNRJ 2771. name first appears on fig. 2, pg. 161.

Chalcinus cruzi Miranda-Ribeiro, 1941:173, fig. 5. Type locality: not given. Holotype: MNRJ 2775. name first appears on fig. 2, pg. 161.

Distribution: 304, 308, 309, 315, 316, 323, 324 (Malabarba MC, 2004; Nakagawa, 2011).

Triportheus brachipomus (Valenciennes, 1850)

Chalcinus brachipomus Valenciennes, in Cuvier, Valenciennes, 1850:259. Type locality: Amazone. [Lectotype locality: Mana, Essequibo River, French Guiana, 5° 44'N, 53° 54'W (Malabarba, 2004:177)]. Lectotype: MNHN 2004-3095. [Designated by Malabarba(2004:177)].

Distribution: 308, 310, 311, 314, 315, 316, 320, 323 (Malabarba MC, 2004; Nakagawa, 2011).

Triportheus culter (Cope, 1872)

Chalcinus culter Cope, 1872b:265, Pl. 14 (fig. 3). Type locality: “fishes of the small streams tributary to the Ambyiacu, as well as those of the river itself” and “between the mouth of the Rio Negro and the Peruvian Amazon or Ucayale River”. [Rio Ampyacu, Peru, Amazon drainage]. Holotype: ANSP 16672 (damaged). [Fowler (1907:451); Böhlke(1984:45); Malabarba MC (2004:188)].

Chalcinus elongatus Iquitensis Nakashima, 1941:63, figure. Type locality: cercanias del puerto de Iquitos. [Puerto de Iquitos, Iquitos, Peru, rio Amazonas drainage]. Syntypes: (lost). [No type was designated for *Chalcinus elongatus iquitensis*]. Senior homonym of *Chalcinus rotundatus Iquitensis* Nakashima, 1941.

Distribution: 316 (Malabarba MC, 2004).

Triportheus curtus (Garman, 1890)

C. curtus Garman, 1890b:4. Type locality: Pará and Arary. [Brazil]. Syntypes: MCZ 21264 (1), 21272 (2).

Distribution: 316, 323 (Malabarba MC, 2004).

Triportheus guentheri (Garman, 1890)

Chalcinus guentheri Garman, 1890b:4. Type locality: San Francisco river. [Rio São Francisco, Brazil]. Holotype: MCZ 21173.

Distribution: 327 (Malabarba MC, 2004).

Remarks: name first appear in key, pg. 2.

Triportheus magdalenae (Steindachner, 1878)

Chalcinus Magdalenae Steindachner, 1878:91. Type locality: “Magdalenen-stromes”. [“Theile der Cienega” in Steindachner (1879e)]. Syntypes: (several) NMW 69151–54 (7, 2, 4, 2); ZMUC 87 (1).

Distribution: 302 (Malabarba MC, 2004).

Triportheus nematurus (Kner, 1858)

Chalcin. nematurus Kner, 1858b:163 [3]. Type locality: Cujaba, Suaguragua und

- Caiçara. [Rio Cuiaba, Mato Grosso, Brazil. Locality from the more detailed description in Kner (1860)]. Lectotype: NMW 69034. [Designated by Malabarba MC (2004:184)].
- Chalcinus paranensis* Günther, 1874:454 [7]. Type locality: river Parana. Holotype: BMNH 1872.5.6.32.
- Distribution: 342, 343, 344, 345 (Malabarba MC, 2004; Nakagawa, 2011).
- Triportheus orinocensis*** Malabarba, 2004
- Triportheus orinocensis* Malabarba, 2004:198, fig. 25. Type locality: Venezuela, Guarico, caño to West of road from Calabozo to San Fernando, about 35 km south to Fundo Masaguaral, caño Falcon (8° 14'N, 67° 35'W). Holotype: MZUSP 85804.
- Distribution: 307, 308, 309 (Malabarba MC, 2004).
- Remarks: name first appear in key, pg. 171.
- Triportheus pantanensis*** Malabarba, 2004
- Triportheus pantanensis* Malabarba, 2004:197, fig. 24. Type locality: rio Paraguay, pond under bridge along Transpantaneira road, 70 km S of Poconé (16° 51'S, 56° 50'W). [Brazil]. Holotype: MCP 35006.
- Distribution: 343, 345 (Malabarba MC, 2004).
- Remarks: name first appear in key, pg. 170.
- Triportheus pictus*** (Garman, 1890)
- Chalcinus pictus* Garman, 1890b:5. Type locality: Jutahy. [Brazil]. Holotype: MCZ 21261.
- Distribution: 316 (Malabarba MC, 2004).
- Remarks: name first appear in key, pg. 2.
- Triportheus rotundatus*** (Jardine, 1841)
- Chalceus rotundatus* Jardine, in Schomburgk, 1841:209. Type locality: river Padauiri. [Neotype's locality: Lago Amapá, Rio Purus drainage, Acre, Brazil, 10° 02' 36" S, 67° 50' 24" W]. Neotype: MCP 34863.
- Distribution: 316, 318, 323 (Malabarba MC, 2004; Nakagawa, 2011).
- Triportheus signatus*** (Garman, 1890)
- C. signatus* Garman, 1890b:4. Type locality: Hab. Rio Pury. [rio Poti, tributary of rio Parnaíba, Teresina, state of Piauí, Brazil]. Syntypes: MCZ 21267 (17).
- Distribution: 323, 325, 326 (Malabarba MC, 2004).
- Triportheus trifurcatus*** (Castelnau, 1855)
- Chalcinus trifurcatus* Castelnau, 1855:70, Pl. 37 (fig. 1). Type locality: Araguay. [rio Araguaia, Pará, Brazil]. Holotype: MNHN A-9837 (dry, poor condition).
- Distribution: 324 (Malabarba MC, 2004).
- Triportheus venezuelensis*** Malabarba, 2004
- Triportheus venezuelensis* Malabarba, 2004:200, fig. 26. Type locality: Venezuela, Barinas, río Masparro, Apure drainage, 5 km NW Libertad on road to Barinas (08° 20'N, 69° 39'W). Holotype: INHS 34768.
- Distribution: 307, 309 (Malabarba MC, 2004).
- Remarks: name first appear in key, pg. 171.

UNPLACED NAMES

CHARACIFORMES *inquirenda*

CAS Lucena

Charax gracilis Gronovius, 1854

Charax gracilis Gronovius, in Gray, 1854:154. Type locality: Habitat in fluminibus Americis Meridionalis. No types known.

Salmo gronovii Walbaum, 1792:83, 659. Type locality: America. No types known. In the description of *Salmo gronovii*, Walbaum (1792:83) repeated the passage by Gronovius (1763) referring to species 377 (= *Charax gracilis* in Gray, 1854). In the description presented by Walbaum there is no indication that it is a species other than *C. gracilis*. Remarks: *Charax gracilis* (= *Charax* 377 of Gronovius, 1763 (in Gray, 1854) was described as lacking a humeral blotch (“macula atra lateribus nulla”), having a curved lateral line (“linea laterali curva”) and an oblong body (“corpore oblongo gracili”), features that are not present in species of the genus *Charax*. Other species proposed by Gronovius in *Charax*, are currently included in other characiform families.

FOSSIL CHARACIFORMES

MC Malabarba

† *Alestes junneri* White, 1937 (**Alestidae**)

† *Alestes junneri* White, 1937:48, Text-fig. 1; Plate X: 1. Type locality: near Lake Botsumtwi, Ghana. Holotype: P 19071.

Distribution: 515 (Stewart, 2001).

Remarks: Taxonomy discussed by Paugy (1986).

† *Alestoides eocaenicus* Monod, Gaudant, 1998 (**Alestidae**)

† *Alestoides eocaenicus* Monod, Gaudant, 1998:16, figs. 1–6. Type locality: Sézanne-Broyes, Marne, Paris Basin, France. Ypresian, Lower Eocene. Holotype: MNHNP 1972-10-18.

Distribution: 403, 404 (Monod, Gaudant, 1998)

Remarks: Name first appears in the abstract. Holotype figured in Cappetta *et al.* (1972:Pl. I, fig. 18).

† *Arabocharax baidensis* Micklich, Roscher, 1990 (**Alestidae**)

† *Arabocharax baidensis* Micklich, Roscher, 1990:143, figs. 2, 3b–g. Type locality: 3.5 km S Ad Dart Asir, SW Saudi Arabia. Baid Formation, Oligocene. Holotype: LNK 7a,b.

Distribution: 439 (Micklich, Roscher, 1990).

† *Brycon avus* (Woodward, 1898) (**Bryconidae**)

† *Tetragonopterus avus* Woodward, 1898:64, figs. 1, 2. Type locality: Taubaté, São Paulo State, Brazil. Holotype. BMNH P-9222.

Distribution: 329 (Malabarba MC, 1998b).

† *Bryconetes enigmaticus* Weiss, Malabarba, Malabarba, 2014 (**Characiformes Incertae sedis**)

† *Bryconetes enigmaticus* Weiss, Malabarba, Malabarba, 2014:441, figs. 2–6. Type locality: Left margin of the Entre-Córregos stream, about 30 km northwest from Aiuruoca town, southern Minas Gerais State, Brazil. Entre-Córregos Formation, Aiuruoca Basin, Eocene–Oligocene. Holotype. UFRGS 19114.

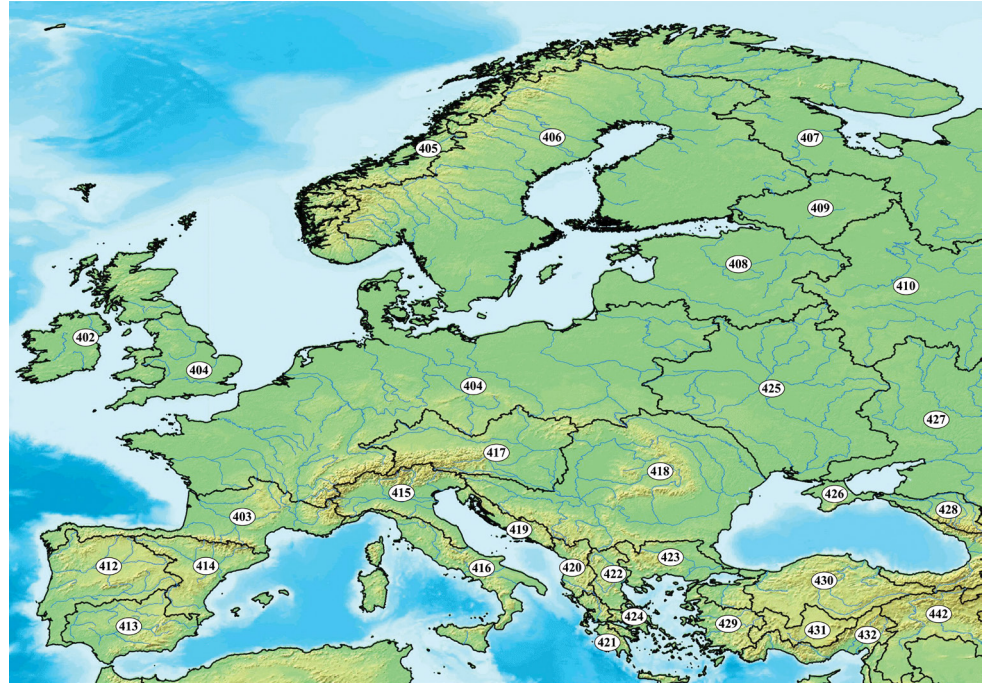


FIGURE 5 | Map of part of Europe with area delimitation based on Abell *et al.*'s 2008 (Freshwater ecoregions of the world): 402 Northern British Isles; 403 Cantabric Coast–Languedoc; 404 Central and Western Europe; 405 Norwegian Sea Drainages; 406 Northern Baltic Drainages; 407 Barents Sea Drainages; 408 Southern Baltic Lowlands; 409 Lake Onega–Lake Ladoga; 410 Volga–Ural; 412 Western Iberia; 413 Southern Iberia; 414 Eastern Iberia; 415 Gulf of Venice Drainages; 416 Italian Peninsula and Islands; 417 Upper Danube; 418 Dniester–Lower Danube; 419 Dalmatia; 420 Southeast Adriatic Drainages; 421 Ionian Drainages; 422 Vardar; 423 Thrace; 424 Aegean Drainages; 425 Dnieper–South Bug; 426 Crimea Peninsula; 427 Don; 428 Kuban; 429 Western Anatolia; 430 Northern Anatolia; 431 Central Anatolia; 432 Southern Anatolia; 442 Upper Tigris and Euphrates. Not all the regions indicated on the map have records of characiforms.

Distribution: 344 (Weiss *et al.*, 2012).

† ***Bunocharax schwartzi*** Van Neer, 1994 (**Alestidae**)

† *Bunocharax schwartzi* Van Neer, 1994:92, fig. 1, Pl. 1: 1–2. Type locality: Site NK 1 in the Nkondo–Kaiso area, Lake Albert, Uganda. Holotype. NK 231'88.

Distribution: 522, 566 (Stewart, 2001).

† ***Cyphocharax mosesi*** (Travassos, Santos, 1955) (**Curimatidae**)

† *Curimata mosesi* Travassos, Silva Santos, 1955:315, Plate III: fig 3, Plate VI: figs 2–3, Plate VII: figs 1–2. Type locality: Nossa Senhora da Guia Quarry, Tremembé, São Paulo State. [Brazil]. Holotype. DGM 620-P.

Distribution: 329 (Malabarba, 1996).

Remarks: Redescribed as *Cyphocharax mosesi* by Malabarba (1996).

† ***Eocitharinus macrogathus*** Murray, 2003 (**Characiformes *Incertae sedis***)

† *Eocitharinus macrogathus* Murray, 2003b:503, figs. 1–2. Type locality: Mahenge, Singida Plateau, Tanzania, 4 47' 38" S, 34 15' 28" E, about 53 km west of the town of Singida. Holotype. WM 245/96a and WM 245/96b, part and counterpart.

Distribution: 566 (Murray, 2003b).

Remarks: Name first appears in the abstract.

- † ***Eurocharax tourainei*** Gaudant, 1980 (**Characiformes *Incertae sedis***)
 † *Eurocharax tourainei* Gaudant, 1980:693, figs. 2–4, Pl. 1–3. Type locality: about 700m SW La Mourotte, France. Holotype. FSL 370 135/134.
 Distribution: 403, 404 (Gaudant, 1980).
 Remarks: Name first appears in the abstract.
- † ***Leporinus scalabrinii*** (Ameghino, 1898) (**Anostomidae**)
 † *Arrhinolemur Scalabrinii* Ameghino, 1898:395. Type locality: nearby the city of Parana. [Entre Rios, Argentina]. Holotype: MACN A-9880.
 Distribution: 345 (Bogan *et al.*, 2012).
 Remarks: Described as a Mammalian; more detailed description in Ameghino (1899); redescribed as a fish in Bogan *et al.* (2012).
- † ***Lignobrycon ligniticus*** (Woodward, 1898) (**Triporthidae**)
 † *Tetragonopterus ligniticus* Woodward, 1898:67, figs. 4, 5. Type locality: Taubaté, São Paulo State, Brazil. Holotype. BMNH P-9012.
 Distribution: 329 (Malabarba MC, 1998b).
 Remarks: Species redescribed as *Lignobrycon* by Eigenmann, Myers (1929); in *Triporthes* by Travassos, Santos (1955); and returned to *Lignobrycon* by Malabarba MC (1998b).
- † ***Megacheiroduon unicus*** (Travassos, Santos, 1955) (**Characidae**)
 † *Astyanax unicus* Travassos, Silva Santos, 1955:303, Plate I: figs 1, 2. Type locality: Nossa Senhora da Guia Quarry, Tremembé, São Paulo State. [Brazil]. Holotype. DGM 615-P.
 Distribution: 329 (Malabarba MC, 1998a).
 Remarks: Species redescribed as *Megacheiroduon unicus* by Malabarba MC (1998a).
- † ***Megapiranha paranensis*** Cione, Dahdul, Lundberg, Machado-Allison, 2009 (**Serrasalminidae**)
 † *Megapiranha paranensis* Cione, Dahdul, Lundberg, Machado-Allison, 2009:353, figs. 3–4. Type locality: Cliffs in the Paraná eastern riverside near the city of Paraná, Provincia de Entre Ríos, Argentina. Holotype. MLP 96-XI-5-1.
 Distribution: 345 (Cione *et al.*, 2009).
- † ***Paleohoplias assisbrasiliensis*** Bocquentin, Negri, 2003 (**Erythrinidae**)
 † *Paleohoplias assisbrasiliensis* Bocquentin, Negri, in Gayet, Jégu, Bocquentin, Negri, 2003:34, figs. 5A–F, 6A–G, 7C, 8. Type locality: Cachoeira da Bandeira, State of Acre, Brazil. Holotype. UFAC PV 4664.
 Distribution: 316 (Gayet *et al.*, 2003).
- † ***Paleotetra aiuruoca*** Weiss, Malabarba, Malabarba, 2012 (**Characidae**)
 † *Paleotetra aiuruoca* Weiss, Malabarba, Malabarba, 2012:79, figs. 6–9. Type locality: Ravines of the Entre-Córregos stream, near the town of Aiuruoca, southern Minas Gerais State, south-eastern Brazil. Holotype. UNG 2T-151.
 Distribution: 344 (Weiss *et al.*, 2012).
- † ***Paleotetra entrecorregos*** Weiss, Malabarba, Malabarba, 2012 (**Characidae**)
 † *Paleotetra entrecorregos* Weiss, Malabarba, Malabarba, 2012:75, figs. 2–5. Type locality: Ravines of the Entre-Córregos stream, near the town of Aiuruoca, southern Minas Gerais State, south-eastern Brazil. Holotype. UNG 2T-149.
 Distribution: 344 (Weiss *et al.*, 2012).
- † ***Plesiocurimata alvarengai*** Figueiredo, Carvalho, 1999 (**Curimatidae**)

- † *Plesiocurimata alvarengai* Figueiredo, Carvalho, 1999:887, figs. 1–4. Type locality: Locality of Fazenda Santa Fé, Tremembé county, State of São Paulo. [Fazenda Santa Fé is a quarry for clay extraction, Brazil]. Holotype: Pz.DBAV.UERJ.405-A. Distribution: 329 (Figueiredo, Carvalho, 1999).
- † ***Salminus noriegai*** Cione, Azpelicueta, 2013 (**Bryconidae**)
 † *Salminus noriegai* Cione, Azpelicueta, 2013:1052, figs. 3–7. Type locality: riverside cliffs at the Toma Vieja, northeast of the city of Parana, Entre Ríos Province, Argentina (31°41S 60°28W). Ituzaingó Formation, Huayquerian Age, Late Miocene. Holotype. CICYTTP-PV-P-1-291. Distribution: 345 (Cione, Azpelicueta, 2013).
- † ***Sindacharax deserti*** (Greenwood, 1972) (**Alestidae**)
 † *Alestes deserti* Greenwood, 1972:507, Pl. 1: 2. Type locality: Fish Hill, Wadi Natrun, Egypt. Holotype. BMNH P 54052. Distribution: 522, 524, 530 (Stewart, 2001).
 Remarks: Originally described in the genus *Alestes*. Transferred to *Sindacharax* by Greenwood, Howes, 1975.
- † ***Sindacharax greenwoodi*** Stewart, 1997 (**Alestidae**)
 † *Sindacharax greenwoodi* Stewart, 1997:34, figs. 2–3. Type locality: Kaiyung deposits, Turkana Basin, northern Kenya. Holotype. KNM-LT 30481. Distribution: 530 (Leakey *et al.*, 1996).
- † ***Sindacharax howesii*** Stewart, 2003 (**Alestidae**)
 † *Sindacharax howesii* Stewart, 2003:86, figs. 3.19–3.21. Type locality: Site 1944 in the North Kaiyung Member deposits, Lothagam, Kenya. Holotype. KNM-LT 32866. Distribution: 530 (Stewart, 2003).
- † ***Sindacharax lepersonnei*** Greenwood, Howes, 1975 (**Alestidae**)
 † *Sindacharax lepersonnei* Greenwood, Howes, 1975:99, figs. 22–24. Type locality: Sites 145 and 156 on the left bank of the Sinda River, Zaire [Democratic Republic of the Congo]. Holotype. RG 17.599. Distribution: 522 (Stewart, 2001).
- † ***Sindacharax lothagamensis*** Stewart, 2003 (**Alestidae**)
 † *Sindacharax lothagamensis* Stewart, 2003:81, figs. 3.5–3.8. Type locality: site 1990, Turkana Basin, Lothagam, northern Kenya. Holotype. KNM-LT 38264. Distribution: 530 (Stewart, 2003).
- † ***Sindacharax mutetii*** Stewart, 2003 (**Alestidae**)
 † *Sindacharax mutetii* Stewart, 2003:83, figs. 3.9–3.14. Type locality: site 1994, Turkana Basin, Lothagam, northern Kenya. Holotype. KNM-LT 38265. Distribution: 530 (Stewart, 2003).
- † ***Tiupampichthys intermedius*** Gayet, Jégu, 2003 (**Characiformes Incertae sedis**)
 † *Tiupampichthys intermedius* Gayet, Jégu, in Gayet, Jégu, Bocquentin, Negri, 2003:30, figs. 2, 3A, L, 4A–H, 7A, B, 8, 11A, 13E. Type locality: locality of Tiupampa, Bolivia. Holotype: MHNC-8592. Distribution: 312, 342 (Gayet *et al.*, 2003).

Fossil names wrongly treated as Characiformes

MC Malabarba

† *Characilepis tripartitus* Cockerell, 1921

- † *Characilepis tripartitus* Cockerell, 1921:19, figs. 1–3. Type locality: Huacho, Peru. [On the coastal zone, about 118 km N to Lima (-11.105947, -77.612271)]. Holotype. USNM 9615.
Distribution: 336 (Cockerell, 1921).
Remarks: Status of species discussed by Novacek, Marshall (1976): No elements support the assignment of this species to Characiformes.
- † ***Santanichthys diasii*** (Silva Santos, 1958)
† *Leptolepis diasii* Silva Santos, 1958:3, Plate I: figs 1, 2. Type locality: Santana do Cariri, northern Chapada do Araripe. [Brazil]. Holotype. DGM (DNPM) 647-P. Distribution: 326, 323, 328 (Silva Santos, 1995; Filleul, Maisey, 2004).
Remarks: Transferred to *Santanichthys* by Silva Santos (1991); Filleul, Maisey (2004) redescribed as Characiformes.
- † ***Lignobrycon altus*** Santos, 1946
† *Lignobrycon altus* Santos, 1946:2, Plate I: figs. 1, 2. Type locality: Nova Iorque village (left margin of Rio Parnaíba), Pastos Bons municipality, Maranhão State. [Brazil]. Holotype: DGM 62-P. [Currently collection of Museu de Ciências da Terra, Departamento Nacional da Produção Mineral (MCTer/DNPM)].
Distribution: 325 (Lima, 1991).
Remarks: Status of species discussed by Weitzman (1960a) and Novacek, Marshall (1976). There are no elements to support the assignment of this species to Characiformes.
- † ***Mahengecharax carrolli*** Murray, 2003
† *Mahengecharax carrolli* Murray, 2003a:474, figs. 1–6. Type locality: Mahenge, Singida Plateau, Tanzania, 4° 47' 38" S, 34° 15' 28" E, about 53 km west of the town of Singida. [Brazil]. Holotype. WM 4112/96a and b.
Distribution: 566 (Murray, 2003a).
Remarks: According to Zanata, Vari (2005) there are major problems in assigning this species to Characiformes or Otophysi.
- † ***Procharax minor*** Santos, Travassos, 1956
† *Procharax minor* Santos, Travassos, 1956:190, figs A–C: pg. 194. Type locality: locality of Nova Iorque, left margin of rio Parnaíba, Pastos Bons municipality, Maranhão State. [Pliocene sediments at left margin of rio Parnaíba, near to locality of Nova Iorque (-6.684044, -44.053754, Maranhão state, Brazil), which is now under the waters of Boa Esperança Dam (Lima, 1991; Melo *et al.*, 2005)]. Holotype: DGM 630-P. [Currently collection of Museu de Ciências da Terra, Departamento Nacional da Produção Mineral (MCTer/DNPM)].
Distribution: 325 (Lima, 1991).
Remarks: Status of species discussed by Weitzman (1960a) and Novacek, Marshall (1976): There are no elements to support the assignment of this species to Characiformes.
- UNAVAILABLE NAMES** **M Toledo-Piza, FCT Lima, FCP Dagosta, RP Ota, T Musschoot, GMT Mattox, OT Oyakawa**

Anostomus anostomus Meuschen, 1778:37.

Remarks: Published in a rejected work (ICZN Opinion 260, 1954).

Brycon melanoxanthus Kner, 1860:12 [4].

Remarks: Name mentioned in passing under *Chalceus orbygnianus* (Kner, 1860) (see

- Lima *et al.*, 2017:98).
- Charax cyprinoides* Meuschen, 1778:38.
Remarks: Published in a rejected work (ICZN Opinion 260, 1954).
- Charax notatus* Meuschen, 1778:38.
Remarks: Published in a rejected work (ICZN Opinion 260, 1954).
- Creagrutus cijerri* Bisbal, Sánchez, 1997:267.
Remarks: Considered a *nomen nudum* in Vari, Harold (2001:3).
- Cretochanes affinis surinamensis* Hoedeman, 1952b:199.
Remarks: Information based on Fricke *et al.* (2022).
- Ctenobrycon multifasciatus* Steindachner, 1910:435.
Remarks: Cited by Eigenmann (1910) as *Ctenobrycon multifasciatus* (Steindachner), but no reference cited.
- Curimatus alberti* Günther, 1880:12.
Remarks: Name mentioned in description of *Curimatus platanus* Günther, 1880; cited by Eigenmann, Eigenmann (1889c:410) and Eigenmann, Eigenmann (1891:47).
- Curimatus leucos* De Filippi, in Tortonese, 1940:139.
Remarks: Not available.
- Cyprinus cylindricus* Walbaum, 1792:656.
Remarks: Name mentioned under account of *Erythrinus* Gronovius.
- Distichodus fasciatus* Vaillant, in Rivière, 1886:17.
Remarks: Treated as *nomen nudum* in Daget, Gosse, 1984:190. According to Boulenger (1901), the specimens collected by the de Brazza expedition and “provisionally” named *Distichodus fasciatus* Vaillant originated from “Mobaka, on the Sanga, right bank affluent of the Congo”, and belong to *Distichodus lusosso*.
- Distichodus hypostomatus* Vaillant, in Rivière, 1886:17.
Remarks: Treated as *nomen nudum* in Daget, Gosse, 1984:189. Pellegrin’s (1900b) description of *Distichodus hypostomatus* is probably based on Vaillant’s specimens (Pellegrin conserved the name given by Vaillant).
- Epicyrthus microlepis* Kner, 1858b:167.
Remarks: According to Fricke *et al.* (2022) objectively invalid; preoccupied by *Epicyrthus microlepis* Reinhardt, 1851.
- Erythrinus balteatus* Günther, 1864:284.
Remarks: Name mentioned in the list of material examined of *Erythrinus unitaeniatus* Agassiz as the name of a specimen purchased of Mr. Frank. It has never been used since then, except for Oyakawa (2003) in the synonymy of *Hoplerythrinus unitaeniatus*.
- Erythrinus cephalus* Meuschen, 1778:35.
Remarks: Name published in a rejected work (ICZN Opinion 260, 1954) for nomenclatural purposes; work listed in the Official Index of Rejected and Invalid Works in Zoological Nomenclature (Melville, Smith, 1987).
- Hoplias malabaricus microphthalmus* Eigenmann, 1910:448.
Remarks: Lapsus calami pro *macrophthalmus*. See Mattox *et al.* (2006:517) for an explanation.
- Hyphessobrycon robertsi* Anonymous (Axelrod), 1958:76.
Remarks: Treated as *nomen nudum* by Weitzman, Palmer, 1997a who also noted that: “Numerous subsequent references to *H. robertsi* in the aquarium literature

appear to refer to *H. bentosi* and may have made the name *H. robertsi* available.”. *Ichthyoborus taeniatus* Vaillant, in Rivière, 1886:17.

Remarks: Treated as *nomen nudum* in Daget, Gosse, 1984:198. According to Pellegrin (1904a), Vaillants report of *Ichthyoborus taeniatus* is based on two specimens from Mokaka, collected by the de Brazza mission, and refers to *Neoborus ornatus* Boulenger, 1899. Boulenger (1899b) also considered Vaillant’s report of *I. taeniatus* as probably belonging to *N. ornatus*]. The spelling “*Ichthyoborus*” by Vaillant is to be considered an unjustified emendation of *Ichthyoborus*.

Leporinus maculifrons Lütken, 1875b:204, 84.

Remarks: Published in the synonymy of *Leporellus pictus* (Kner). Listed in the synonymy of *Leporellus vittatus* (Valenciennes) by Garavello, Britski (2003:73).

Myletes filiosus Kner, 1860:27 [19].

Remarks: Name mentioned in the synonymy of *Myleus setiger* Müller, Troschel (Jégu, 2003:186).

Pacu banana Natterer, in Kner, 1859:158 [22].

Remarks: Probably a popular name obtained by Natterer for *Hemiodus unimaculatus* (Bloch, 1794).

Piabina piquira Eigenmann, 1910:434.

Remarks: Considered a *nomen nudum* in Vari, Harold (2001:226).

Pygocentrus bidorsalis Kner, 1860:36 [28].

Remarks: Name mentioned in the synonymy of *Pygocentrus piraya* (Cuvier) (Jégu, 2003:189).

Pygocentrus dulcis Kner, 1860:44 [36].

Remarks: Name mentioned in the synonymy of *Serrasalmo spilopleura* Kner (Jégu, 2003:192).

Pygocentrus melanurus Kner, 1860:42 [34].

Remarks: Name mentioned in the synonymy of *Serrasalmus maculatus* Kner (Jégu, 2003:191).

Salmo (Curimata) marggravii Walbaum, 1792:80.

Remarks: The name *Prochilodus marggravii* has been applied by various authors to *Prochilodus argenteus* Agassiz, 1829 (see Castro, Vari, 2003b:85, 88). However, the International Commission on Zoological Nomenclature (Opinion 772, 1966: 42, 45) ruled that *Marggravii* (= *marcgravi*) [Walbaum, 1792] specific name, as published in the combination *Salmo (Curimata) Marggravii* (a cheironym) was to be placed on the Official Index of Rejected and Invalid Names and Works in Zoology (Name No. 858).

Salmo biribiri Natterer, in Kner, 1859:170 (34).

Remarks: Name mentioned in passing under *Leporinus nigrotaeniatus*. Listed as species *inquirenda* (*Leporinus*) by Garavello, Britski (2003:79).

Salmo cagoara Natterer, in Kner, 1859:172 [36].

Remarks: Name mentioned in passing under *Leporinus pictus* Kner, 1859:172 (= *Leporellus pictus*). Listed in the synonymy of *Leporellus vittatus* (Valenciennes, 1850) by Garavello, Britski (2003:73).

Salmo clupeoides Kner, 1860:15 [7].

Remarks: Name mentioned in passing under *Chalcinus nematurus* (Kner, 1860) (see Lima *et al.*, 2003:158).

Salmo curimata Walbaum, 1792:80.

Remarks: On Official Index (ICZN Opinion 772, 1966).

Salmo dentex Hasselquist, 1762:437.

Remarks: Published in a rejected work (ICZN Opinion 57, 1914). Based on Hasselquist (1757), also a rejected work (ICZN Opinion 57). Also, not an independent species description, but the same as *Cyprinus dentex* Linnaeus, 1758 (see Fernholm, Wheeler, 1983). According to Fricke (2008) it can be treated as a new generic allocation for this species, now known as *Alestes dentex*.

Salmo erythrophthalmus Kner, 1860:43 [35].

Remarks: First mentioned by Natterer in Diesing (1836a:24) with no distinguishing characters. Posteriorly, the name was mentioned by Kner (1860:40) in passing under *Serrasalmo aureus* Agassiz, but not formally described (Jégu, 2003:188).

Salmo lambari Natterer, in Kner, 1859:176 [40].

Remarks: Name mentioned under *Tetragonopterus scabripinnis* Valenciennes. Listed in the synonymy of *Astyanax fasciatus* (Cuvier) by Lima et al. (2003:108).

Salmo matrincham Kner, 1860:12 [4].

Remarks: Name mentioned under *Chalceus carpophagus* Valenciennes (Lima (2017:90)).

Salmo melanurus Natterer, in Kner, 1860:52.

Remarks: Name mentioned in passing under *Salminus cuvieri* Valenciennes.

Salmo niloticus Hasselquist, 1762:422.

Remarks: Published in a rejected work (ICZN Opinion 57, 1914). Based on Hasselquist (1757), also a rejected work (ICZN Opinion 57, 1914). Also, not an independent species description, but a misidentification of *Salmo niloticus* Linnaeus, 1758. According to Fricke (2008) it is placed in the synonymy of *Distichodus nefasch*.

Salmo pacu Kner, 1860:22.

Remarks: mentioned by Natterer in Diesing (1836b:251) with no distinguishing characters. Posteriorly, the name was mentioned by Kner (1860:22) in passing under *Myletes brachypomus* Cuvier.

Salmo pacupeba Kner, 1860:23 [15].

Remarks: First mentioned by Natterer in Diesing (1836b:251) with no distinguishing characters. Posteriorly, the name was mentioned by Kner (1860:22) in passing under *Myletes rhomboidalis* Cuvier, 1818 (Jégu, 2003:186).

Salmo para-putanga Kner, 1860:12.

Remarks: Name mentioned in passing under *Chalceus orbygnianus* Valenciennes (Lima, 2017:98).

Salmo pectoralis Kner, 1860:18 [10].

Remarks: Name mentioned in passing under *Gasteropelecus stellatus* Kner.

Salmo pequirá Natterer, in Steindachner 1882a:39.

Remarks: Name mentioned in passing under *Chirodon pequirá* Steindachner.

Salmo pirapitinga Kner, 1860:10.

Remarks: Name mentioned in passing under *Chalceus opalinus* Cuvier (Lima, 2017:73).

Salmo piraputanga Kner, 1860:11.

Remarks: Name mentioned in passing under *Chalceus hilarii* Valenciennes.

Salmo roncador Natterer, in Kner, 1859:141 [5].

Remarks: name mentioned in passing under *Curimatus vittatus* Kner.

Salmo sachicanga Kner, 1860:51.

Remarks: Name mentioned in passing under *Cynopotamus humeralis* Valenciennes (Lima *et al.*, 2003:157).

Salmo sauá Kner, 1859:174.

Remarks: First mentioned in Diesing (1836a:24) with no distinguishing characters. Posteriorly, the name was mentioned in Kner (1859: 174) in passing under *Tetragonopterus argenteus* Agassiz. Listed under species *inquirenda* (Characidae) in Lima *et al.* (2003:157).

Salmo tambaqui Kner, 1860:21 [13].

Remarks: Name mentioned in passing under *Myletes macropomus* Cuvier (Jégu, 2003:183).

Salmo tamuco Kner, 1860:55 [47].

Remarks: First mentioned in Diesing (1836a:24) with no distinguishing characters. Posteriorly, the name was mentioned in Kner (1859:55) in passing under *Cynodon vulpinus* Spix (= *Rhaphiodon vulpinus* Spix, Agassiz).

Salmo timbure Natterer, in Kner, 1859:171 [35].

Remarks: Name mentioned in passing under *Leporinus fasciatus* Agassiz. Listed as species *inquirenda* (*Leporellus*) by Garavello, Britski (2003:73).

Salmo tiririca Natterer, in Kner, 1859:172 [36].

Remarks: Name mentioned in passing under *Leporinus striatus* Kner. Listed in the synonymy of *Leporinus striatus* Kner, 1858 by Garavello, Britski (2003:78).

Salmo tizoura Kner, 1860:40 [32].

Remarks: Name mentioned in passing under *Serrasalmo humeralis* Valenciennes (Jégu, 2003:191).

Serrasalmo albus Humboldt, 1821:173, Pl. 47 (fig. 1).

Remarks. According to Fink (1993) a *lapsus calami* may had occurred in the original description of *Serrasalmo caribe* that has confused many authors. The species account begins “SERRASALMO albus, dorso et pinna dorsali viridescentibus, pinnis ventralibus et anali aurantiis” which has led some studies to consider the name “*albus*” a valid name. Therefore, according to ICNZ they attributed the specific epithet “*caribe*” to the species (Jégu, 2003:189).

Squalus kelbelbahr Forsskål, 1775:x.

Remarks: See discussion in Fricke, 2008:9.

Tetragonopterus rivularis var. *interrupta* Lütken, 1875c:215.

Remarks: Published in the synonymy of *Tetragonopterus rivularis* Lütken (Lima *et al.*, 2003:140).

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