

The Fishes of the Amazon: Distribution and Biogeographical Patterns, with a Comprehensive List of Species

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THE FISHES OF THE AMAZON: DISTRIBUTION AND BIOGEOGRAPHICAL PATTERNS, WITH A COMPREHENSIVE LIST OF SPECIES

FERNANDO C.P. DAGOSTA AND MÁRIO DE PINNA



BULLETIN OF THE AMERICAN MUSEUM OF NATURAL HISTORY

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ABSTRACT

We provide a general compilation of the diversity and geographical distribution of Amazonian fishes, updated to the end of 2018. Our database includes documented distributions of 4214 species (both Amazonian and from surrounding basins), compiled from published information plus original data from ichthyological collections. Our results show that the Amazon basin comprises the most diverse regional assemblage of freshwater fishes in the world, with 2716 valid species (1696 of which are endemic) representing 529 genera, 60 families, and 18 orders. These data permit a view of the diversity and distribution of Amazonian fishes on a basinwide scale, which in turn allows the identification of congruent biogeographical patterns, here defined as the overlapping distributions of two or more lineages (species or monophyletic groups). We recognize 20 distinct distributional patterns of Amazonian fishes, which are herein individually delimited, named, and diagnosed. Not all these patterns are associated with identifiable geographical barriers, and some may result from ecological constraints. All the major Amazonian subdrainages fit into more than one biogeographical pattern. This fact reveals the complex history of hydrographical basins and shows that modern basin-defined units contribute relatively little as explanatory factors for the present distributions of Amazonian fishes. An understanding of geomorphological processes and associated paleographic landscape changes provides a far better background for interpreting observed patterns. Our results are expected to provide a framework for future studies on the diversification and historical biogeography of the Amazonian aquatic biota.

INTRODUCTION

The Amazon basin is the largest hydrographic drainage on earth, covering $\sim 6 \times 10^6$ km² (larger still if estuarine coastal areas are included) (Sioli, 1984; Milliman and Farnsworth, 2011), or about one-third of South America. Its discharge is also the largest in the world, with about one-fifth of the entire freshwater volume on the surface of the planet (Callede et al., 2004). Its vast size is matched by an equally vast fauna and flora (Webb, 1995; Patton et al., 2000; Hoorn and Weseligh, 2010; Cardoso et al., 2017), comprising the richest ecosystem on earth.

Fishes are one of the faunal elements whose Amazonian biodiversity reaches superlative numbers. Despite such megadiversity and the attention it attracts, knowledge about the diversity and geographical distribution of Amazonian fishes is still not synthesized into a general framework that allows broad generalizations. Most data are scattered within thousands of species descriptions, and attempts to synthesize that information are inherently limited by the incomplete nature of their underlying databases. The Amazon basin still lacks a comprehensive list of

its fish species and available estimates suggest a number between 1300 and 3500 species (e.g., Géry, 1969; Lundberg et al., 2000, 2010; Junk et al., 2007; Albert et al., 2011; van der Sleen and Albert, 2017). Some studies have tried to correlate Amazonian fish distributions with underlying causal factors that might form the basis for a historical biogeography of these fishes: Eigenmann (1909), Géry (1969), Vari (1988), Jégu (1992a, 1992b), Hubert and Renno (2006), Ribeiro (2006), Albert et al. (2011), Albert and Carvalho (2011), Lima and Ribeiro (2011), Ribeiro et al. (2013), and Dagosta and Pinna (2017). Some other papers focused on only parts of the Amazon are still relevant for the recognition of distribution patterns, including: Kullander (1986), Jégu and Keith (1999), Pearson (1937), Crampton (2011), López-Fernández and Albert (2011), and Lujan and Armbruster (2011).

The paradigm of vicariant biogeography (Croizat et al., 1974; Rosen, 1978; Nelson and Platnick, 1981) postulates that general distribution patterns demand general explanations, usually by associating lineage splitting with the origin of wide-ranging geographical barriers. Despite such conceptual clarity, in practice, the

association of biogeographical patterns with geographical barriers that contributed to taxonomic diversification is difficult because of factors such as dispersal across existing barriers, area coalescence (obliteration of preexisting barriers and resulting biotic dispersal), extinction, and others that make the detection and delimitation of historically cohesive areas (biogeographical units) a complex process (Harold and Mooi, 1994; Szuzmik et al., 2002). One way to approach the issue is to search for geographical homologies (i.e., biogeographical congruence) in the form of distributional congruence among unrelated taxa (Patterson, 1981; Nelson, 1994; Morrone, 2009) and the application of the notion of primary homology (de Pinna, 1991) as adapted to biogeography (sensu Morrone, 2001, 2009). Despite such caveats, there is ample consensus that the formulation of robust historical biogeographical hypotheses is critically important for understanding biotic diversification and in deciding what conservation policies to adopt (Cracraft, 1994; Crisci, 2000; Whittaker et al., 2005; Guedes et al., 2014).

Analytical considerations aside, the identification of repeated patterns of geographical distribution is the first step toward a formulation of general biogeographical hypotheses. Such a task in itself can be daunting when dealing with large and complex taxonomic groups such as the Amazonian fishes. Basic knowledge about their taxonomy, phylogeny, and distribution has long been so irregularly scattered as to impede proper synthesis. On the other hand, knowledge about the systematics and distribution of Amazonian fish taxa has now accumulated to a degree that synthetic efforts are more enticing than ever before, both at specific and supraspecific levels.

The purpose of this paper is to identify the taxonomic patterns of distribution of Amazonian fishes based on all data currently available in the literature and in some of the largest ichthyological collections with significant Amazonian holdings. The list compiled for this report is an expansion and refinement of the database published in Dagosta and Pinna (2017), the largest previously

done on the distribution of Amazonian fishes and provides the first comprehensive list of Amazonian fishes. It permits the identification and delimitation of all repeated patterns of distribution. We also offer a discussion on the possible underlying causes for each of the patterns and on their potential as indicators of a general biogeographical history of the Amazon basin. We expect our work will provide a general framework for the categorization of forthcoming distributional data (new records, new species, and new clades) and facilitate future progress on the biogeography of Amazonian freshwaters.

MATERIALS AND METHODS

Species distributions were compiled from all the information available in the literature, in a total of over 1500 references (see Dagosta and Pinna, 2017: appendices 1–6; and appendix 1, herein, for distributional data on fish species in the Amazon and surrounding basins), including taxonomic revisions, species descriptions, inventories and faunistic lists. Additionally, primary data were obtained from the most relevant (in size and Amazonian coverage) ichthyological collections, namely Instituto Nacional de Pesquisas da Amazônia, Manaus (INPA), Museu Nacional do Rio de Janeiro, Rio de Janeiro (MNRJ), Museu Paraense Emílio Goeldi, Belém (MPEG), Museu de Zoologia da Universidade de São Paulo, São Paulo (MZUSP), and National Museum of Natural History, Washington, DC (USNM). Two smaller collections, LBP (Laboratório de Biologia e Genética de Peixes, Botucatu), and LIRP (Laboratório de Ictiologia de Ribeirão Preto, Ribeirão Preto), were also surveyed because of their unique holdings of material from critical portions of the Brazilian Shield. Examined material is listed in Dagosta and de Pinna, 2017: Supplementary Material 2, and includes all information on source of data (citation, date of publication, and catalog number, when based on collections), institutional catalog, and sample numbers along with published sources for each species. All published information utilized was

qualified as to accuracy regarding species identification and locality. Identifications in collections were verified by direct examination of specimens. Doubtful information was discarded. Compilation of the composition and geographical distribution of Amazonian fishes is updated to the end of 2018.

Maps presented are intended to represent general patterns of distribution and individual species plots can vary slightly within those limits. Delimitation of the Purus Arch follows Sacke (2014). Water type of Amazonian Rivers follows Venticque et al. (2016) (SNAPP Western Amazon Group – Amazon Aquatic Ecosystem Spatial Framework Knowledge Network for Biocomplexity. Usage is granted according to a Creative Commons “CC BY 4.0”). Hydrographic shape used in figures 5 through 22 is from Lehner et al. (2008), courtesy from HydroSHEDS (hydrological data and maps based on shuttle elevation derivatives at multiple scales: <http://www.worldwildlife.org/hydrosheds>). The shaded relief of South America used in figures 5 through 22 is courtesy of NASA/JPL-Caltech. The delimitation of the Amazonian regions follows Dagosta and Pinna (2017).

The taxonomic arrangement in appendix 1 follows Nelson (2006), except for the inclusion of recently described family Tarumaniidae (de Pinna et al., 2017), for considering Arapaimidae and Serrasalminidae as valid families, for including the genus *Chalceus* in Alestidae, and for adopting Cynolebiidae instead of Rivulidae. Within each family, genera are organized in alphabetical order. Species-level nomenclature follows Fricke et al. (2019), except for the validity of *Astyanacinus*, which is maintained herein since its synonymization within *Astyanax* is considered unjustified.

In figure 1, estimates of the number of fish species in the Congo basin is from Snoeks et al. (2011), in the Mekong from Poulsen et al. (2004), in the Nile from Witte et al. (2009), in the Mississippi from Robinson and Buchanan (1988) and in the Ganges from Sarkar et al. (2012). Figures for other basins (Atrato, Capim, Cauca-Magdalena-

Sinú, Coppename-Suriname, Corentyne-Demerara, Essequibo, Maracaibo, Maroni-Approuague, Oiapoque, Paraná-Paraguay, and Parnaíba) are compiled from the present work. Estimates of fish diversity in continents follow Lévêque et al. (2008), except for Europe, which is based on Kotletat and Freyhof (2007); South America, based on Reis et al. (2016); and Central America, based on Matamoros et al. (2015).

A distributional pattern is herein identified as the overlap (or major overlap) of geographical distributions of at least two species or monophyletic groups. Our definition of biogeographical pattern is deliberately broad and based solely on instantaneous geographical distributions of taxa. Thus, the recognition of a pattern herein is agnostic as to its causal reasons. It also does not preclude the possibility that some of the patterns are hierarchically arranged, i.e., that some patterns are actually subpatterns of larger ones. The selection and the delimitation of the distributional patterns are based on a visual analysis of map distributions of all Amazonian fishes, with consideration for previously published proposals. Repeated geographical distributions may be the result of ecological conditions, historical factors or both, and we consider that the identification and characterization of distribution patterns are relevant regardless of their underlying explanation and even without confirmation by rigorous statistical modeling procedures (which would be impossible at this point because of the heterogeneity of data sources).

Actual geographical distributions are a result of past events and processes in combination with present-day constraints not necessarily related to the vicariant processes that generated that diversity. Many factors are brought into consideration when untangling the nature and meaning of a distribution pattern, and those are discussed separately in the relevant sections. Our notion of taxa assumes that they exist as empirically backed biological entities, corresponding to either species or monophyletic groups. Taxonomic entities that are demonstrably not monophyletic are not considered as valid evidence,



FIG. 1. Number of fish species in the Amazon basin and comparisons with other basins and continents. Left graph: species numbers in the Amazon and other large world basins. Bottom graph and map: species numbers in the Amazon basin compared to those in other continents. An asterisk indicates estimated numbers. For sources of data, see Material and Methods.

even if formally named in classification, because they are not empirically supported as a basis for biogeographical inference.

A chi-square test was used to verify the association of species' distributions with biogeographical patterns proposed (i.e., whether or not the species has a random distribution) and to test whether water type influences the distributions of specific species (appendix 2). The test was applied only to species shown in maps.

RESULTS AND DISCUSSION

Our inventory shows that the Amazonian ichthyofauna is composed of 2716 valid species, included in 529 genera, 60 families, and 18 orders. Such figures make the Amazon drainage, by a wide margin, the basin with the richest fish fauna in the world (fig. 1), with a diversity equivalent to that of some entire continents (fig. 1). As a comparison, the estimated (i.e., not necessarily described) number of species in the second most

diverse basin in the world (Congo) is less than half that of the Amazon.

As in other Neotropical, African, and Asian drainages, the majority of Amazonian fishes belongs to the Otophysi (fig. 2), a group representing 80% (2193 spp.) of all Amazonian species. As in other Neotropical basins, the most species-rich orders are Characiformes and Siluriformes. The third largest order in Amazonian waters is the Perciformes, largely due to species of the family Cichlidae. Of the least diverse orders, 10 are from typically marine lineages that secondarily invaded Amazonian waters.

The familial composition also follows that a pattern typical of the majority of continental waters in the neotropics, vastly dominated by small body-size species. Five families (Characidae, Loricariidae, Cichlidae, Cynolebiidae, and Callichthyidae) concentrate most of the diversity (1528 spp. or 56% of Amazonian species), with Characidae alone comprising nearly a quarter of all Amazonian fish species.



FIG. 2. Richest lineages of Amazonian fishes in number of species: **A**, All orders; **B**, families; **C**, genera.

The most species-rich genera are those composed of small body-size species. Among the 10 richest genera, half are Characidae (fig. 2C), demonstrating that the diversity of that family in the Amazon is concentrated in few genera. The same happens with *Corydoras*, the genus with the most Amazonian species, comprising 111 of the 133 species of Callichthyidae in the

basin. Among the most diverse Amazonian genera, three were the object of relatively recent revisions (*Creagrutus*, *Cyphocharax*, and *Sternarchorhynchus*). Such revisionary works increased significantly the number of Amazonian species in the respective lineages: 42% of the Amazonian species of *Creagrutus* were described in Vari and Harold (2001); 28% of

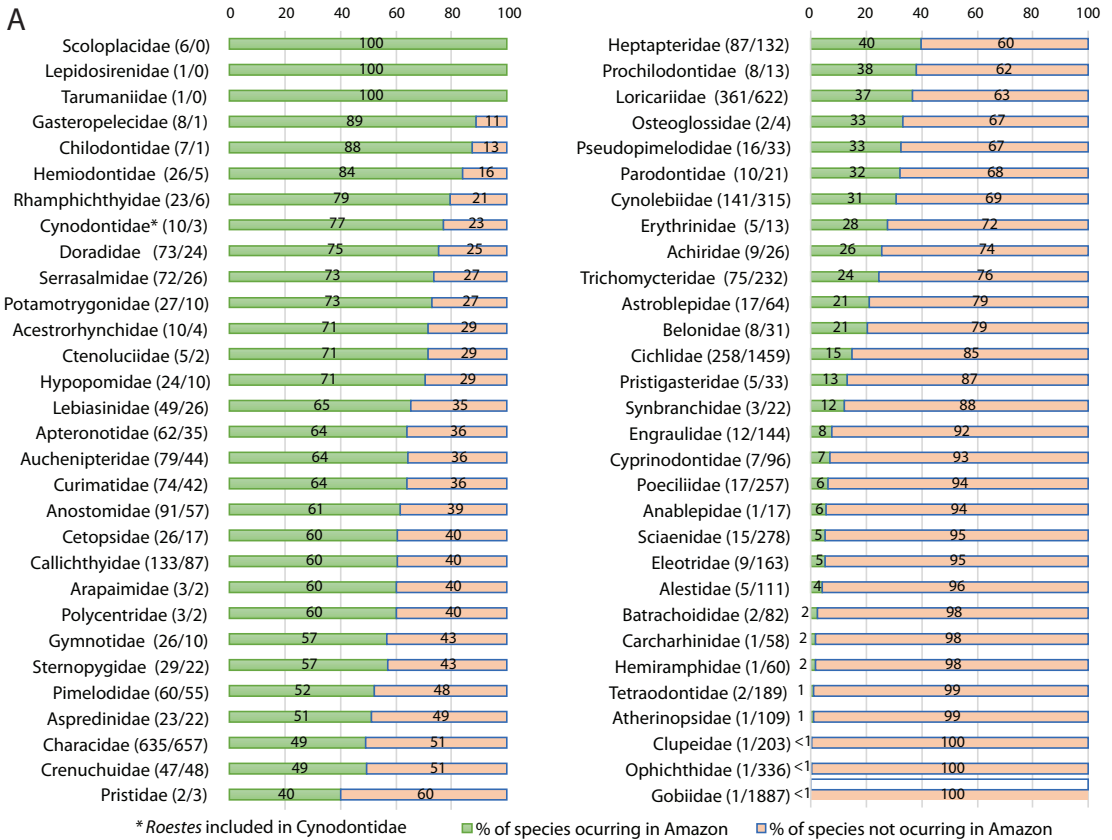


FIG. 3. Proportion of species occurring in the Amazon versus not occurring in the Amazon, by higher taxon. **A.** (above) By family. In green, percentage of species in the family occurring in the Amazon; in pink, percentage of species not occurring in the Amazon. **B.** (opposite page) Per genera (only 50 most species-rich genera shown). In green, percentage of species occurring in the Amazon; in blue, percentage of species not occurring in the Amazon. Fractions in parentheses represent actual numbers of species occurring (numerator) and not occurring (denominator) in the Amazon. Number of species in each family and genus follows Fricke et al. (2019).

Cyphocharax in Vari (1992a), and 72% of *Sternarchorhynchus* in de Santana and Vari (2010). Thus, the position of those genera among the most diverse in the Amazon, especially in the case of *Cyphocharax* and *Sternarchorhynchus*, may be an artifact resulting from the lack of taxonomic revisions in other potentially more diverse yet poorly studied genera, for example, *Chaetostoma*, *Knodus*, and *Rineloricaria*.

Interesting facts appear when the diversity of the richest Amazonian lineages is compared with equivalent data from outside the basin. The Amazonian fish community is formed both by typically Amazonian lineages (i.e., most or all of

their diversity is in the Amazon basin) and by lineages that have greater diversity in other South American basins or in the ocean (fig. 3A). At the family level, it is clear that the Amazon dominates, by a wide margin, the alpha-diversity in the vast majority of primary-division lineages sensu Myers (1938), with relatively little diversity in the secondary and peripheral divisions. The only exclusively Amazonian family is the recently described Tarumaniidae (Scoloplacidae and Lepidosirenidae occur also in the Paraguay basin).

Other interesting patterns are revealed by an examination of intrageneric diversity. The first one is that the most diverse genera in the Ama-



zon have the majority of their species in the basin (fig. 3B). Also, some megadiverse Neotropical genera are relatively poorly represented in the Amazon, such as *Astyanax*, *Trichomycterus*, *Bryconamericus*, *Characidium*, and *Hemibrycon*. This is probably related to the fact that the species of those genera in the Amazon are concentrated along its outer rims, which indicate that their presence in the region is relatively recent, caused by secondary geological events involving adjacent basins. Two cases that stand out are *Astyanax* and *Trichomycterus*, which have their Amazonian diversity concentrated respectively in the upper Tocantins and upper Ucayali, right at the divide with other drainages.

The richest Amazonian tributary is the Rio Madeira (fig. 4), a fact that is attributed not only to its large size, but also to its hybrid nature (Dagosta and Pinna, 2017). The Rio Madeira drains one-third of the Amazonian lowlands and

at the same time has tributaries associated with the Andean range and the Brazilian Shield, both areas particularly rich in fish endemics. The Rio Negro is also one of the most diverse Amazonian tributaries (fig. 4), despite its nutrient-poor and extremely acidic waters, which represent ecological barriers to numerous fish species (Goulding et al., 1988; Lima and Ribeiro, 2011). Despite that, the Rio Negro also harbors a large number of endemics (79 spp.).

High levels of endemism are also seen in the Marañon and Ucayali (25% and 16%, respectively; fig. 4), a likely result of the Andean range in the diversification of the Amazonian biota. The largest absolute number of endemic taxa (87 spp.) is found in the upper Rio Tocantins followed by the Marañon (81 spp.). Other basins draining Amazonian Shield regions, such as Juruena, Teles Pires, Jari, and Madeira Shield tributaries, also show high levels of endemism,

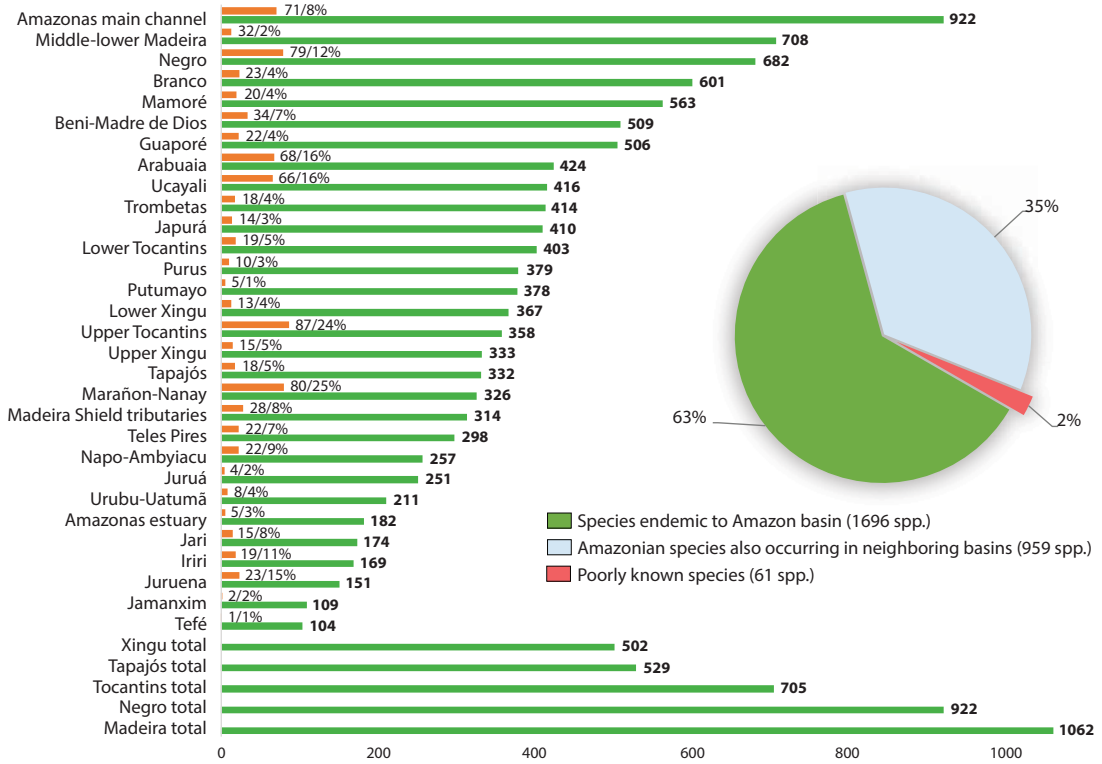


FIG. 4. Amazonian endemic species. Species richness (green) and endemic species (orange) for each of the main Amazonian tributaries or parts thereof. Pie chart indicates the proportion of species occurring exclusively in the Amazon and those also present in other basins. Minor endemic regions not included in graph are: Anapu (2 spp.), Coari-Urucu (1 sp.), Curuá-Paru do Oeste (2 spp.), Paru (2 spp.) and Javari (1 sp.).

although relatively low total numbers of species. Such figures corroborate the hypothesis that highlands have proportionally fewer taxa with broad distributions and fewer cases of sympatry when compared with lowland rivers (Dagosta and Pinna, 2017).

The majority of Amazonian fish diversity is exclusive, with 63% (1696 spp.) of its species found nowhere else (fig. 4). That number alone would place the Amazon as the richest basin in the world in fish species.

PATTERNS OF DISTRIBUTION OF AMAZONIAN FISHES

Below we present the general patterns of distribution herein recognized on the basis of information compiled in appendix 1. Each category

listed is described as to its geographical (physical) boundaries and subsequently discussed as to its historical significance, possible causes (if any is identified) and any other relevant points. The taxa supporting each pattern is provided in the text. Patterns are arranged according to logical sections and subsections, with each of them given a name (when a pattern was already recognized in the literature by a widely used name, that name was maintained here) and a number reference, so as to provide an easy reference in future publications.

BROADLY DISTRIBUTED LINEAGES

This pattern includes lineages which are broadly distributed in major South American drainages such as Amazon, Coastal Atlantic,



FIG. 5. Broadly distributed lineages. **A.** Yellow area delimits the distribution pattern. **B.** *Hoplias malabaricus* (red dots; records from MZUSP), *Erythrinus erythrinus* (green diamonds; records from MZUSP), *Hoplerythrinus unitaeniatus* (yellow triangles; records from MZUSP). **C.** *Synbranchus marmoratus*, records from MZUSP. **D.** *Callichthys callichthys* (data from Lehmann and Reis (2004) with additional records from MZUSP).

Parana-Paraguay, São Francisco, Orinoco, and Guianan basins (fig. 5A). This is the most common pattern for the majority of families of fishes in the Amazon and also includes a number of genera such as *Acestrorhynchus* (see González, 2015), *Brycon* (see Lima, 2017), *Characidium*, *Crenicichla* (see Ploeg, 1991), *Corydoras*, *Eigenmannia*, *Geophagus*, *Gymnotus* (see Albert et al., 2005), *Hoplosternum* (see Reis, 1997), *Hypostomus*, *Leporinus*, *Megaleporinus* (see Ramirez et al., 2017), *Pimelodella* (see Slobodian, 2017), *Pimelodus*, *Prochilodus*, *Serrasalmus*, *Schizodon*, and *Steindachnerina* (see Vari, 1991).

As to species-level taxa with such wide distribution, three categories exist: (1) well-studied ones that have been extensively revised and are demonstrably a single taxonomic entity, such as

Acestrorhynchus falcatus (see González, 2015) and *Callichthys callichthys* (fig. 5D; see Lehmann and Reis, 2004); (2) species that have never been the object of detailed revisions but that nonetheless lack published evidence of comprising a complex of species, such as *Corydoras aeneus*, *Leporellus vittatus*, *Leporinus fasciatus*, *Pinirampus pirinampu*; and (3) taxa recognized or suggested as species complexes but that have not yet been disentangled, such as *Eigenmannia virescens* (L. Peixoto, personal commun.), *Erythrinus erythrinus* (Martins et al., 2012), *Hoplerythrinus unitaeniatus* (Giuliano-Caetano et al., 2001), *Hoplias malabaricus* (fig. 5B; see Dergam et al., 1998), *Leporinus friderici* (Silva-Santos et al., 2018), *Sternopygus macrurus* (Silva et al., 2008), and *Synbranchus marmoratus* (fig. 5C; see Torres et al., 2005).

Therefore, it is likely that this “pattern” may not actually be a congruent biogeographical pattern among species, but simply the result of a taxonomic artifact. More refined biogeographical patterns may be hidden under incomplete or deficient taxonomic definitions.

It is interesting that none of the migratory fishes with notably vast living ranges, such as *Brachyplatystoma* spp., Prochilodontidae spp., and Curimatidae spp. include species with such broad ranges as those listed above (see Barthem and Goulding, 2007; Barthem et al., 2017). This is evidence that even species with extreme dispersal abilities meet with effective ecological/geographical barriers that keep them from achieving such broad ranges as defined in this pattern.

AMAZON CORE

The name given to this pattern has no relation to the origin of its components, but simply alludes to the region of greatest fish diversity in South America. The Amazon Core pattern is formed by fish lineages typical of the Amazonian biota that may be found both in lowlands and highlands of the Amazon basin and in adjacent basins such as Guiana drainages, Parnaíba, Capim, Orinoco, and Essequibo (fig. 6A) and that are absent in coastal drainages of southeastern Brazil, São Francisco, and Paraná-Paraguay. It is interesting to note that there is no species or lineage of fishes that is widely distributed throughout the high and low Amazonian lands not also present in adjacent basins of the Amazon such as Orinoco, Essequibo, or Guiana drainages. This is evidence that the Amazon basin is not an area of endemism, but instead is a historically composite area.

Examples of the Amazon Core pattern are numerous and include supraspecific taxa such as Chilodontidae, Anostominae, genera *Argonectes* (see Langeani, 1996), *Boulengerella* (fig. 6B; see Vari, 1995), *Cichla* (see Kullander and Ferreira, 2006), *Jupiaba* (see Zanata, 1997; presence of the genus in Paraguay basin is hypothesized to be secondary according to Ribeiro et al., 2013), *Mastigla-*

nis, *Panaque* (see Lujan et al., 2010), and *Semaprochilodus* (see Castro and Vari, 2004). This pattern of distribution is also reflected in some individual species such as *Moenkhausia collettii* (fig. 6C), *Moenkhausia oligolepis* (fig. 6D) and *Potamo-trygon orbignyi* (see Da Silva and De Carvalho, 2015).

SOUTH AMERICAN LOWLANDS

As the name suggests, taxa following this pattern occupy only the lower altitudes of cis-Andean South America, not occurring in Guiana and Brazilian Shield regions except in lowermost sectors of some large rivers such as Tapajós, Trombetas, and Xingu. Almost invariably, species with this pattern of distributions occur in the main channel of the Amazon and the Rio Madeira but exact limits vary according to taxon. Eigenmann was the first author to recognize that the ichthyofaunistic composition was different between South American high- and lowlands and named part of the latter as the “Amazon Province”: “East of the Cordilleras, and therefore east of the Magdalena basin, is found the most extensive and intricate fresh water system in the world. It forms a network of rivers practically uninterrupted, extending from the mouth of the Orinoco through the Casiquiare, Rio Branco, Rio Negro, Rio Madeira, Rio Guapore, Rio Paraguay, Parana and La Plata to Buenos Aires” (Eigenmann, 1909: 317).

Eigenmann (1909) correctly pointed out that the pattern extrapolates the hydrographic limits of the Amazon basin, and it is possible to list countless other examples of species that occur in the lowlands of the Amazon that are also present in other lowland drainages such as Orinoco, Paraná-Paraguay, Essequibo, and drainages east of the mouth of the Amazonas, from the Capim to the Mearim. Although this pattern is not exclusively Amazonian, the highland/lowland divide is the most widely discussed of all distributional patterns of Amazonian fishes (see Menezes, 1969, 1976; Kullander, 1986; Jégu, 1992a, 1992b; Lima and Ribeiro, 2011).



FIG. 6. Amazon Core. A. Yellow area delimits the distribution pattern. B. *Bouleengerella* spp. (data from Vari (1995) with additional records from MZUSP). C. *Moenkhausia collettii* (records from MZUSP). D. *Moenkhausia oligolepis* (records from MZUSP).

Lima and Ribeiro (2011) underscored a clear dichotomy between two geomorphological domains in northern cis-Andean South America: lowlands and highlands. Besides differences in historical-geomorphological parameters, high- and lowland regions affect their associated biotas differently (Albert et al., 2011; Lima and Ribeiro, 2011). Lowland drainages are more susceptible to hydrogeological changes and are in general more dynamic than highland drainages. Lowland rivers tend to be more directly interconnected than rivers draining other geomorphological areas, due to the action of meanders, anastomoses, megafans and mouth-position changes during sea-level oscillations (Lundberg et al., 1988). All those factors are less intense or nonexistent in highland rivers, which are typically well fitted in valleys of exposed crystalline rock and do not

undergo significant lateral movements (Lima and Ribeiro, 2011). Thus, lowland rivers undergo constant and much faster hydrogeographic changes and, as a consequence, congregate more taxa with broad distributions and more cases of sympatry than highland rivers. In addition, habitat stability provided by an enormous living space for lowland Amazonian fish species seems to be an important factor in decreasing the extinction rate of lineages (Lundberg et al., 1988; 2010), which in turn also results in increased diversity. Therefore, those are the factors that explain why most Amazonian fish species fit a South American lowland pattern.

There are spatial differences among distinct groups of lowland Amazonian fishes, with at least five different subpatterns as explained below. The examples and subpatterns recognized herein have



FIG. 7. Amazon and Orinoco Lowlands. A. Yellow area delimits the distribution pattern. B. *Moenkhausia lepidura* (data from Marinho and Langeani, 2016). C. *Potamorhina altamazonica* (data from Vari, 1984). D. *Vandellia cirrhosa* (M.P., unpublished data).

a direct relation with the complex geomorphological history of the Western Amazon.

Amazon and Orinoco Lowlands

Eigenmann (1909) delimited his Amazonian Province from a dispersionist perspective, where present-day connections among drainages provided the explanation for faunal sharing among basins. However, the correct interpretation for most of such massive ichthyofaunal sharing among different lowland South American basins is directly related to a complex historical context that began in the Upper Cretaceous, at least, with the formation of the Sub-Andean Foreland basin (Lundberg et al., 1998) and has little relation to present (and rather ineffective) physical connections (e.g., Casiquiare canal).

The sub-Andean Foreland is a series of retro-arc depressions lying to the east of the Andean Cordilleras that served as the main drainage axis of South America throughout the Upper Cretaceous to the Paleogene (Cooper et al., 1995; DeCelles and Giles, 1996; Lundberg, 1998; DeCelles and Horton, 2003; Albert and Reis, 2011; Lima and Ribeiro, 2011; Wesselingh and Hoorn, 2011). For much of its existence, the Sub-Andean Foreland was drained mostly by the proto-Amazon-Orinoco basin (Lundberg et al., 1998), even though the latter has also drained other areas of the South American platform further east.

Both the pattern described here and the Amazon Province of Eigenmann (1909) match mostly (exclusive of the La Plata basin included in Eigenmann's province) the spatial limits of

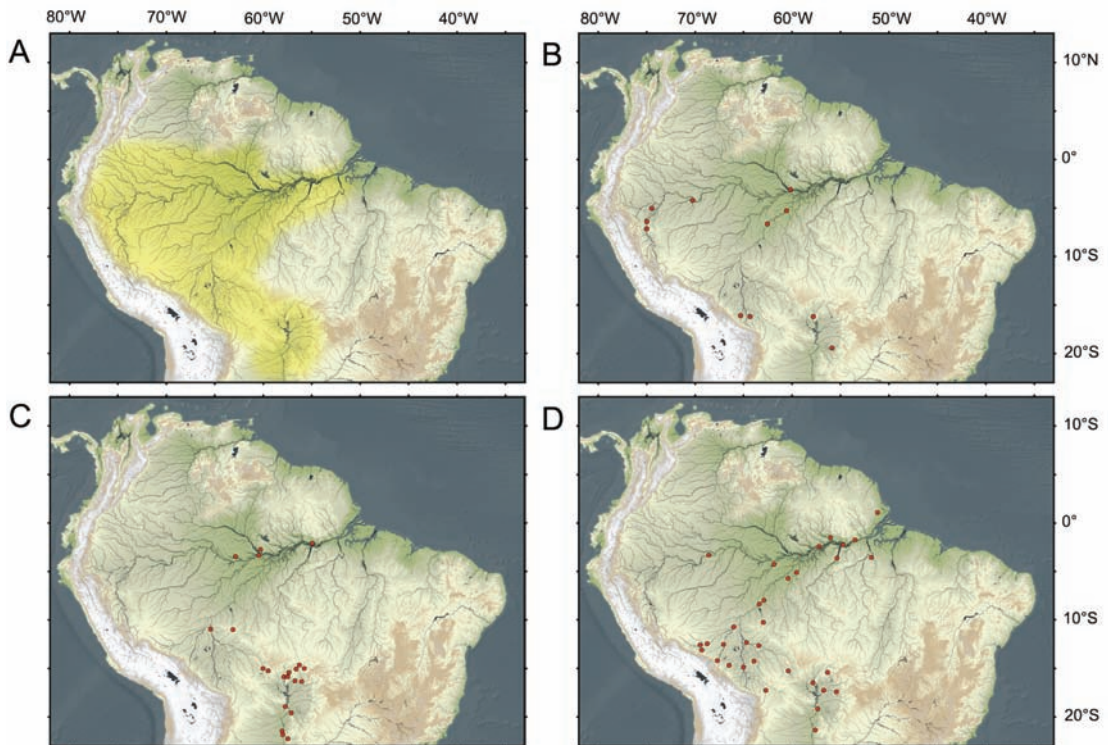


FIG. 8. Amazon and Paraguay Lowlands. **A.** Yellow area delimits the distribution pattern. **B.** *Epapterus dispilurus* (data from Vari and Ferraris, 1998). **C.** *Hemigrammus lunatus* (data from Ota et al., 2014). **D.** *Mesonauta festivus* (data from Kullander and Silvergrip, 1991, and Schindler, 2005).

the proto-Amazon-Orinoco, which was a continuous basin until its fragmentation in the late Miocene (ca. 10 Ma) as a result of the rise of the Vaupes Arch in eastern Colombia that separated the modern Orinoco and Amazon basins (Hoorn, 1994a; Cooper et al., 1995; Harris and Mix, 2002; Albert and Carvalho, 2011; but see Mora et al., 2010, for a more recent estimate). That barrier may have prevented lineages that diversified after its rise from increasing their range throughout all lowland regions and may also have caused the extinction of lineages in some of those basins. Those two factors may explain the absence of some typical Amazonian lowland forms in the Orinoco basin (see examples in Amazon-only Lowland). On the other hand, part of the faunal sharing between the Amazon and Orinoco may result from broad

distributions before the modern separation between those basins, i.e., from the proto-Amazon-Orinoco. Still another hypothesis to explain the same pattern is megafan dynamics, geologically more recent (see Wilkinson et al., 2010). As will be discussed in the section Negro and Orinoco, the Canal Casiquiare does not seem to be a relevant dispersal route to explain the extensive list of taxa shared between the Amazon and Orinoco lowlands.

Some examples of exclusive taxon sharing between the Amazon and Orinoco lowlands are: *Acanthicus hystrix* (see Chamon, 2016), *Acestro-rhynchus heterolepis* (see González, 2015), *Brachyhyppopomus sullivani* (see Crampton et al., 2016), *Brycon amazonicus* (see Lima, 2017), *Boulengerella maculata* (see Vari, 1995), *Cetopsis coecutiens* (see Vari et al., 2005), *Cynodon gibbus*

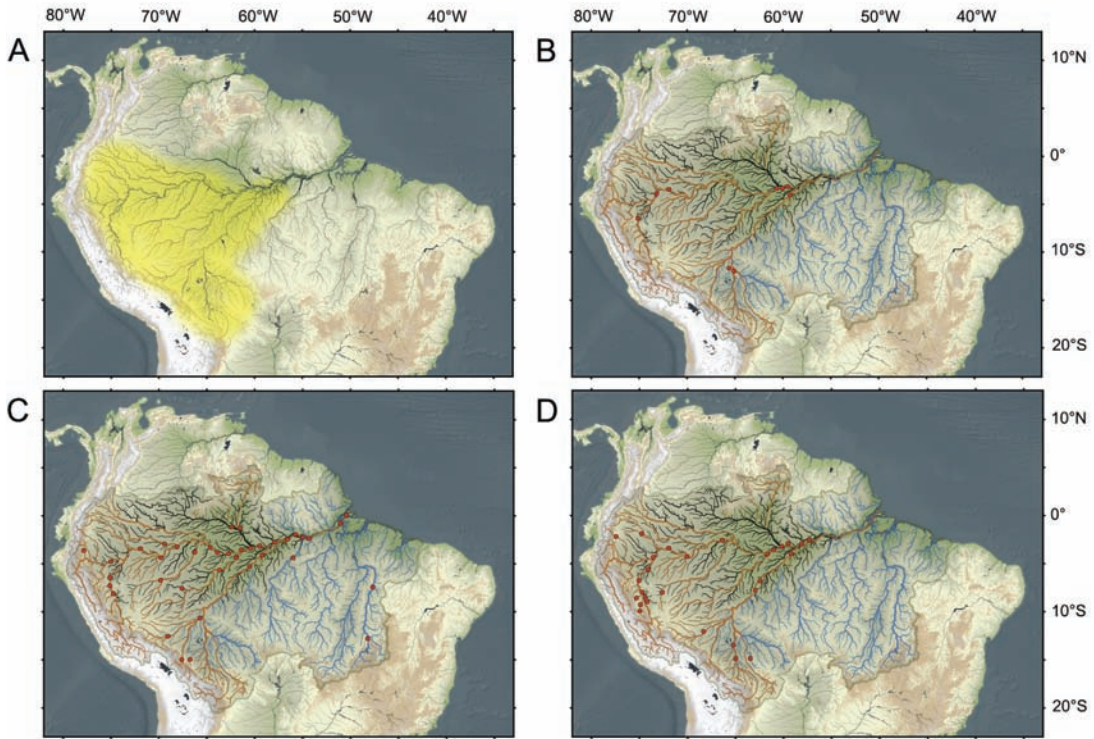


FIG. 9. Amazon-only Lowland. **A.** Yellow area delimits the distribution pattern. **B.** *Adontosternarchus balae-nops* (data from Mago-Leccia et al., 1985). **C.** *Cetopsis candiru* (data from Vari et al., 2005). **D.** *Curimatella meyeri* (data from Vari, 1992a).

(see Toledo-Piza, 2000a), *Colossoma macropomum*, *Lasiancistrus schomburgkii* (see Armbruster, 2005), *Leptodoras paelongus* (see Sabaj Pérez, 2005), *Metynnis guaporensis* and *M. luna* (see Ota, 2015), *Moenkhausia comma*, *Moenkhausia lepidura* (fig. 7B, see Marinho and Langeani, 2016), *Mylossoma albiscopum* (see Mateussi, 2015), *Nemadoras cristinae* (see Sabaj Pérez et al., 2014), *Paragoniates alburnus* (see Quevedo, 2006), *Peckoltia bachi* (see Armbruster, 2008), *Potamorhina altamazonica* (fig. 7C, see Vari, 1984), *Sorubim elongatus* (see Littmann, 2007), *Trachydoras brevis*, *T. gepharti*, *T. microstomus* and *T. nattereri* (see Sabaj and Arce, 2017), *Vandellia cirrhosa* (fig. 7D), *Adontosternarchus* spp. (see Mago-Leccia et al., 1985), *Brachyrhamdia* spp. (see Slobodian, 2013), *Chalceus* spp. (see Zanata and Toledo-Piza, 2004), *Compsaraia* (see Bernt and Albert, 2017), *Hassar* spp. (see Birin-

delli et al., 2011), *Laemolyta* spp. (see Mautari and Menezes, 2006), *Liosomadoras* spp. (see Birindelli and Zuanon, 2012), *Microphilypnus* spp. (see Caires and Figueiredo, 2011), *Tenellus* spp. (sensu Birindelli, 2014; Sabaj Pérez et al., 2014), and *Sternarchogiton* spp. (see de Santana and Crampton, 2007).

Amazon and Paraguay Lowlands

There are many Amazonian Lowland fish lineages that also occur in the Paraná-Paraguay basin, which was not permanently connected to the proto-Amazon-Orinoco. The location of the watershed divide between the proto-Amazon-Orinoco River basin and the La Plata changed between the end of the Paleogene and the beginning of the Neogene (see Tagliacollo et al., 2015). Initially, it was the Chapare Buttress in



FIG. 10. Amazonas-Paraguay-Orinoco Lowland. **A.** Yellow area delimits the distribution pattern. **B.** *Rhabiodon vulpinus* (data from Toledo-Piza, 2000a, with additional records from MZUSP). **C.** *Sorubim lima* (data from Littmann, 2007). **D.** *Hypophthalmus oremaculatus* (data from Littmann et al., 2015).

the Late Oligocene (ca. 30–20 Ma) (Lundberg, 1998) and subsequently the Michicola Arch, starting during the Late Miocene (ca. 11.8–10 Ma) in the area of modern eastern Bolivia (Lundberg et al., 1998; Montoya-Burgos, 2003; Albert and Carvalho, 2011; Carvalho and Albert, 2011a). Several events may have permitted biotic dispersal between the Amazon and Paraguay: upper Paraguay captures of proto-Amazonas-Orinoco headwaters (Lundberg et al., 1998), Amazon capture of upper Paraguay headwaters (Lundberg et al., 1998), river megafans involving the upper Río Mamoré and tributaries of the upper Río Paraguay (Wilkinson et al., 2006, 2010; Ota et al., 2014) and capture of upper Río Paraguay into the upper Río Guaporé (Ota et al., 2014). Because all possible connections between the Amazon and the Paraná-Par-

aguay happened as a result of separate events of different ages, it is very likely that many species shared between those basins, despite their congruent distributions, lack temporal congruence. They correspond instead to cases of pseudocongruence, *sensu* Donoghue and Moore (2003), and are not biogeographically homologous. Taxa shared between those basins include: *Acestrorhynchus abbreviatus* (see González, 2015), *Acestrorhynchus* gr. *lacustris* (see González, 2015), *Brachyhyppopomus bombilla* (see Crampton et al., 2016), *Epapterus dispilurus* (see fig. 8B; Vari and Ferraris, 1998), *Hemigrammus lunatus* (see fig. 8C; Ota et al., 2014), *Mesonauta festivus* (see fig. 8D; Kullander and Silfvergrip, 1991; Schindler, 2005), *Moema* spp. (see Costa, 2004), and *Prionobrama* spp. (see Quevedo, 2006). A complete list of species shared exclu-

sively between the Madeira and the Paraguay is presented in Madeira and Paraguay.

Amazon-only Lowland

Whitewater Amazonian rivers have high sediment and nutrient loads and a neutral pH, draining a relatively young Andean range. Major whitewater tributaries include the Marañón, Purus, Madeira, Juruá, Putumayo, Japurá, and Napo rivers. The whole Rio Amazonas system exhibits whitewater, although it receives other water types from various tributaries. There are few investigations into the impact of such water type changes on the biogeography of Amazonian fishes. Vari (1988) suggested that some curimatids are restricted to whitewater rivers and that their distribution may be more closely linked to ecological rather than historical factors. While the pattern is correct in some cases, we also agree with Lima and Ribeiro (2011: 157) that “some ecological factors that clearly influence fish distribution patterns in northern cis-Andean South America, such as water typology, are, as mentioned previously, a consequence of geomorphological processes and, as such, possess a historical component.” Thus, it is possible that lowland species restricted to the Amazon reached such distribution from different causes and histories, either because they diversified after separation of the Orinoco from the proto-Amazon-Orinoco basin or because they are whitewater dependent.

Evidence suggests that the interpretation of Vari (1988) may be correct for a set of species showing this pattern of distribution. Some of the exclusively Amazonian lowland species are absent in the Rio Tocantins basin, having their distributions limited to the region of the mouth of the Madeira. This may indicate an association with whitewater since tributaries with that type of water become practically nonexistent downstream of that part of the Amazon river. Some examples of the Amazon-only Lowland pattern are: *Adontosternarchus balaenops* (see fig. 9B; Mago-Leccia et al., 1985), *Agoniates anchovia*, *Aphanotorulus*

horridus (see Ray and Armbruster, 2016), *Aphanotorulus unicolor* (see Ray and Armbruster, 2016), *Apionichthys nattereri* (see Ramos, 2003), *Brycon melanopterus* (see Lima, 2017), *Chalceus erythrurus* (see Zanata and Toledo-Piza, 2004), *Cetopsis candiru* (see fig. 9C; Vari et al., 2005;), *Cetopsis oliveirai* (see Vari et al., 2005), *Chaetobranchopsis orbicularis*, *Copella stigmatemion* (see Marinho and Menezes, 2017), *Crenicara punctulatum*, *Curimata aspera* (see Vari, 1989a), *C. kneri* (see Vari, 1989a), *Curimatella meyeri* (see fig. 9D; Vari, 1992b), *Cyphocharax spiluroopsis* (see Vari, 1992b), *C. notatus* (see Vari, 1992b), *C. plumbeus* (see Vari, 1992b), *Denticetopsis seducta* (see Vari et al., 2005), *Hydrolycus scomberoides* (Toledo-Piza et al., 1999), *Hypostomus pyrineusi* (see Armbruster, 2003), *Leporinus jamesi* (see Garavello et al., 2014), *Protocheirodon pi* (see Vari et al., 2016), *Mylossoma aureum* (see Mateussi, 2015), *Nemadoras elongatus*, *N. hemipeltis*, *N. humeralis* (see Sabaj Pérez et al., 2014), *Potamorhina latior* (see Vari, 1984), *Prionobrama filigera* (see Quevedo, 2006), *Psectrogaster amazonica* (see Vari, 1989b), *Pseudobunocephalus amazonicus* (see Cardoso, 2008), *P. bifidus* (see Cardoso, 2008), *Scoloplax dicra* (see Schaefer et al., 1989), *Sorubim maniradii* (see Littmann, 2007), *Steindachnerina bimaculata* (see Vari, 1991), *S. leucisca* (see Vari, 1991), *Sternarchella calhamazon* (see Lundberg et al., 2013), *Trachydoras steindachneri* (see Sabaj and Arce, 2017), *Aphyolebias* spp. (see Costa, 2004), and *Chaetobranchopsis* spp.

The pattern of distribution described herein is repeatedly supported as biogeographically coherent in the analyses of Dagosta and de Pinna (2017).

Amazonas-Paraguay-Orinoco Lowland

This pattern is the least common one among lowland species in the Amazon basin. Most cases are also present in the Tocantins basin, but not in Guianan drainages. Some examples of this pattern are: *Abramites hypselonotus* (see Vari and Williams, 1987), *Curimatella dorsalis* (see Vari, 1992a), *Hypophthalmus oremaculatus* (see fig. 10D; Littmann et al., 2015), *Rhaphiodon vulpinus*

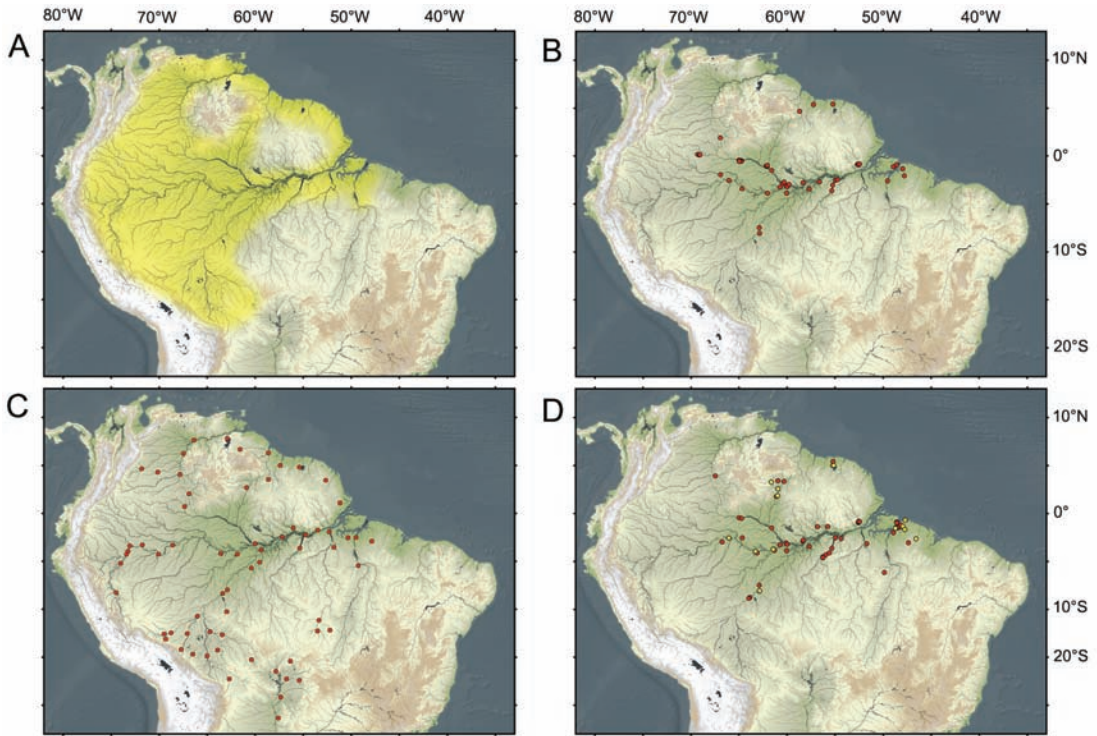


FIG. 11. Amazonas-Guiana-Orinoco Lowland. **A.** Yellow area delimits the distribution pattern. **B.** *Crenuchus* spp. (data from MZUSP). **C.** *Mesonauta* spp. (records from Kullander and Silfvergrip, 1991; Schindler, 2003). **D.** *Hemigrammus ocellifer* (red dots; records from MZUSP), *Hemigrammus unilineatus* (yellow dots; data from MZUSP).

(see fig. 10B; Toledo-Piza, 2000a), *Roeboides affinis* (see Lucena, 2007), *Sorubim lima* (see fig. 10C; Littmann, 2007), and *Mylossoma* spp. (see Mateussi, 2015). The Amazonas-Paraguay-Orinoco Lowland pattern comprises areas from the previously described Amazon and Orinoco Lowlands as well as the Amazon and Paraguay Lowlands, and thus the associated geological processes are the same as discussed in the respective headings.

Amazonas-Guiana-Orinoco Lowland

Species with this pattern of distribution are broadly distributed in the lowlands of the Rio Amazonas and, in some cases, also of the Orinoco and Essequibo, but they are also found in the lowlands of Guiana coastal drainages. The pattern differs from the Amazon Core pattern described

above because it is restricted to lowland lineages. Some examples of this pattern here recognized are: Iguanodectinae, *Arapaima* spp., *Brachyplatystoma* spp., *Copella* spp. (see Marinho and Menezes, 2017), *Crenuchus* spp. (see fig. 11B; Campanario, 2002; Pires et al., 2016), *Electrophorus* spp., *Heros* spp., *Hypophthalmus* spp. (also in Paraguay basin, see Littmann et al., 2015), *Mesonauta* spp. (also in Paraguay basin, see fig. 11C; Kullander and Silfvergrip, 1991; Schindler, 2003), *Osteoglossum* spp., *Pachypops* spp. (see Casatti, 2002), *Ageneiosus dentatus* (see Ribeiro et al., 2017), *Brachyhyopomus beebei*, *Brachyhyopomus brevirostris* and *Brachyhyopomus regani* (see Crampton et al., 2016), *Caenotropus labyrinthicus* (see Vari et al., 1995), *Gnathocharax steindachneri*, *Hemigrammus unilineatus* (fig. 11D), *Hemigrammus ocellifer* (fig. 11D), and *Serrasalmus rhombeus*.

The geomorphological explanations associated with this pattern as the evolution of the sub-Andean Foreland region (discussed in Amazon and Orinoco Lowlands) and the advance of the freshwater plume associated with marine regressions (discussed in Guiana Mangrove Province), which allowed contact the regions of Amazonas-Orinoco Lowland and the coastal drainages of Guiana.

OTHER CASES OF AMAZONIAN LOWLAND DISTRIBUTION

Fossils of Lowland Amazonian Lineages

Several Tertiary fossils belonging to typically lowland Amazonian taxa are present in regions currently lacking any Amazonian connection, such as Magdalena and Caribbean coastal rivers from the northern coast of Venezuela: *Arapaima*, *Brachyplatystoma*, *Colossoma*, *Doras*, *Hydrolycus*, and *Phractocephalus* (G. Ballen, personal communication; Lundberg et al., 1986, 1988, 2010; Lundberg, 1997, 2005; Sabaj Pérez et al., 2007). This demonstrates that such regions were in the past also part of some other distributional patterns described herein. If such fossils were not known, our understanding of the biogeographical history of the region would be severely incomplete or incorrect. Besides, the absence of extant representatives of the listed lineages in the Caribbean coastal rivers from northern coastal Venezuela and in Rio Magdalena basin is a clear demonstration of the dynamic nature of biogeographical phenomena, which change drastically over time and may bear little relationship to present-day physical barriers that determine the distribution of recent taxa.

Eastern Lowland Amazon

Some lowland distributional patterns comprise basins east of the mouth of the Rio Tocantins, beyond the eastern limit of the Amazon basin itself (i.e., Capim, Gurupi, Turiaçu, Mearim, Itapecuru, and Parnaíba). Interestingly,

each of those basins has fewer and fewer Amazonian lineages as they get progressively farther from the mouth of the Amazon. Some of them are poorly sampled, mainly the Gurupi, Turiaçu, and Mearim, resulting in probably artifactual discontinuous distributions between neighboring basins and blurring details of the pattern. Species shared exclusively between the lower Amazon and above-cited eastern basins include: *Brachyhalcinus parnaíbae* (lower Tocantins and Parnaíba, see Reis, 1989), *Brachyhyopomus pinnicaudatus* (Amazon estuary, Capim, and Mearim, see Crampton et al., 2016), *Corydoras jullii* (lower Tocantins, Mearim, and Parnaíba, see Dagosta and Pinna, 2017); *Apistogramma caetei* (lower Tocantins, Capim, and Gurupi; see Dagosta and Pinna, 2017) and *Nannostomus nitidus* (Amazon estuary and Capim; see Dagosta and Pinna, 2017).

Most examples of Amazonian lineages that occur in drainages to the east of the Amazon basin are also widespread in lowland waters of the Amazon. Some examples are: *Anablepsoides urophthalmus* (Capim, Gurupi and Mearim, see Costa, 2006), *Brachyplatystoma* spp. (Capim, cf. Lundberg and Akama, 2005; Mearim and Parnaíba; see Ramos et al. Ramos et al., 2014), *Ceantropus labyrinthicus* (Capim, see Vari et al., 1995; Parnaíba; see Ramos et al., 2014), *Curimata* spp. (Itapecuru, see Barros et al., 2011; Parnaíba, see Ramos et al., 2014), *Cynodon gibbus* (Itapecuru, see Barros et al., 2011; Parnaíba, Toledo-Piza, 2000a), *Gymnocorymbus thayeri* (Gurupi, see Benine et al., 2015; Parnaíba, see Benine et al., 2015), *Jupiaba polylepis* (Parnaíba, see Ramos et al., 2014), *Poptella compressa* (Capim, Mearim, Parnaíba, and Turiaçu, see Reis, 1989; Itapecuru, see Barros et al., 2011), *Pseudoplatystoma punctifer* (Itapecuru, Barros et al., 2011; Parnaíba, see Buitrago-Suárez and Burr, 2007) and *Vandellia cirrhosa* (Capim and Turiaçu, fig. 7D).

Marine Derived Lineages

A lowland Amazonian pattern is also seen in typically marine lineages (peripheral division



FIG. 12. Distribution of some typical marine lineages which invaded Amazonian waters. **A.** Achiridae. **B.** Belonidae. **C.** Engraulidae. **D.** Pristigasteridae. **E.** Tetraodontidae. Data from MZUSP. Map intended to represent general patterns of distribution into Amazonian and adjacent waters, not including marine records and from other basins.

sensu Myers (1938) that invaded Amazonian waters, such as Achiridae (fig. 12A), Batrachoididae, Belonidae (fig. 12B), Clupeidae, Engraulidae (fig. 12C), Gobiidae, Hemirhamphidae, Pristigasteridae (fig. 12D), and Tetraodontidae (fig. 12E) (see Bloom and Lovejoy, 2017, for further details).

Bloom and Lovejoy (2017) convincingly demonstrate that different marine lineages colonized

South American rivers at different ages, influenced by separate events of marine transgression. According to those authors, different groups have biogeographical patterns consistent with invasions during the Oligocene, Eocene, or Miocene marine incursions. The Amazonian half-beak is the only lineage younger than the Miocene to have invaded Amazonian freshwaters

less than a million years ago. These facts make it clear that the lowland Amazonian pattern of marine-derived lineages is pseudocongruent (*sensu* Donoghue and Moore, 2003).

None of the marine-derived lineages is found in the highest parts of Guianese and Brazilian shields (see figs. 12A–E). Such fact suggests that the invasion of peripheral groups in the Amazon occurred subsequently to the establishment of the ichthyofauna in those upland regions. The alternative hypothesis that such lineages went extinct in the higher regions of the shields has no evidential support, either paleontological or geomorphological.

Deep Channel Species

Another lowland Amazonian pattern is demonstrated by species restricted to the deep channel of large Amazonian rivers, mainly the Amazonas itself (e.g., *Sternarchella ducis*, see Evans et al., 2017; *Sternarchella rex*, see Evans et al., 2017; *Sternarchella sima*, see Evans et al., 2017; *Leptodoras juruensis*, see Sabaj Pérez, 2005; *Pariosternarchus amazonensis*, see Albert and Crampton, 2006). Benthic regions of many of these large rivers contain specialized communities, mostly composed of electric fishes. Some of those species are strictly associated with deepwater environments, though there are records also in flooded beaches. Crampton (2007) listed at least 64 species of the Gymnotiformes that inhabit deep waters in the Amazon. Because deepwater Amazonian samples are still few and have been mostly focused on large Amazonian rivers, it is possible that this apparent pattern is the result of a sampling artifact of species actually belonging to some of the other South American lowlands patterns.

GUIANA MANGROVE PROVINCE

This pattern comprises the lower portions of the Orinoco basin, the Guiana coastal drainages and the lower Amazon (fig. 13A). Its western limit for most taxa is usually the mouth of the

Orinoco, but in some cases it extends to the small independent coastal Venezuelan drainages, such as with *Polycentrus schomburgkii* (see Coutinho and Wosiacki, 2014). The eastern limit of this province is usually the mouth of the Amazon, with some species occurring also in the lower sectors of the Rio Jari, Tocantins, and Xingu and some reaching even further east to the Brazilian State of Maranhão. This pattern was first recognized by Myers (1960), in describing distribution patterns in the subfamily Aspredininae, of Aspredinidae: “They [the Aspredininae] are fishes of the lowland, muddy coast of Guiana and Amazonia, where they occur in the sea, in brackish water, and in the estuaries and tidal portions of rivers. They do not seem to be found far inland anywhere, except in the lower Amazon, where they apparently occur in many (or all) parts of the vast, complicated delta area, where the tides or tidal bores (*pororoca*) are felt” (Myers, 1960: 133).

Myers (1960) describes the limits of the pattern as from the Orinoco delta in Venezuela into the Brazilian state Maranhão, and calls it the “Guyana Mangrove Province,” a name adopted here. The same pattern was later independently described by Vari (1988: 355) on the basis of data from Curimatidae: “The Atlantic slopes of Guyana, Surinam and French Guiana and Amapá in Brazil are another area of endemism....” Vari (1988) notes that some species in that area also occur in the lower Amazon and in the Rio Tocantins, such as *Curimata cyprinoides*. This pattern is strongly corroborated as a historical unit in the analyses of Dagosta and de Pinna (2017).

Examples of Guiana Mangrove Province Pattern include: *Anableps* spp., *Anablepsoides urophthalmus* group (see Nielsen, 2016), *Aspredinichthys filamentosus* (see Myers, 1960), *Aspredinichthys tibicen* (see Myers, 1960), *Aspredo aspredo* (see Myers, 1960), *Copella arnoldi* (see Marinho and Menezes, 2017), *Curimata cyprinoides* (see fig. 13B; Vari, 1989a), *Cyphocharax helleri* (fig. 13C), *Hemigrammus rodwayi*, *Hemigrammus guyanensis*, *Nannostomus beckfordi*, *Piabucus dentatus*, *Platyistacus cotylephorus* (see Myers, 1960), *Poecilia*



FIG. 13. Guiana Mangrove Province. **A.** Yellow area delimits the distribution pattern. **B.** *Curimata cyprinoides* (data from Vari, 1989a). **C.** *Cyphocharax helleri* (data from Vari, 1992b) with additional records from MZUSP). **D.** *Polycentrus schomburgkii* (see data from Coutinho and Wosiacki, 2014).

parae, *P. picta*, *Poptella longipinnis*, *Polycentrus schomburgkii* (see fig. 13D; Coutinho and Wosiacki, 2014), *Pristella maxillaris*, *Pseudauchenipterus nodosus*, *Rhinossardina amazonica* (see Whitehead, 1985), and *Tomeurus gracilis* (see Myers, 1960).

It seems unlikely that nonrheophilic species such as those listed above have the pattern of distribution they do as a result of sequential stream capture events or that they represent relictual distributions of ancient and more widely distributed populations. Instead, their distribution pattern seems to be strongly correlated with events of marine transgression and regression.

An immense freshwater plume is formed by the discharge of the Amazon in the Atlantic (Goulding et al., 2003; Rocha, 2003). Such volume of freshwater floats above the heavier saltwater and spreads northwestward carried by the southern equatorial current (Jégu and Keith,

1999; Albert et al., 2006), resulting in turbid waters and largely unconsolidated substrates between the mouths of the Amazon and Orinoco (Curtin, 1986; Rocha, 2003). The effect of that plume varies seasonally and according to changes in sea level over time (Rocha, 2003). The first authors to propose the effect of the Amazonian plume on freshwater fish distribution were Jegú and Keith (1999). In their model, the plume serves as a corridor permitting the advance of species from the lower Amazon toward Guiana coastal drainages, thus explaining the common elements between those regions (see the distribution of *Brachyhyppopomus pinnicaudatus* in Crampton et al., 2016, for another example). It is also likely that events of marine transgression and regression have altered the hydrogeological dynamics of the region affected by the plume, isolating or uniting different coastal drainages.

It is not yet known whether the matching distributions of strictly freshwater (as listed above) and marine-tolerant species (e.g., *Aspredinichthys filamentosus*, *Aspredinichthys tibicen*, *Aspredo aspredo*, *Platystacus cotylephorus*, *Pseudochanna nodosus*, *Rhinosardina amazonica*, and *Stictorhinus potamius*) are congruent or pseudocongruent (*sensu* Donoghue and Moore, 2003). Myers (1960) notes that *Tomeurus* and *Anableps* have the same distribution pattern as Aspredininae, even though the two former taxa are not as tolerant to saltwater.

The salt-tolerant species are restricted to lower portions of rivers, close to their mouths. Their tolerance to marine water may have allowed their range expansions without the need of transgression-regression events. Population phylogeographical studies may bring light to this question, by comparing divergence times between populations in the lower Amazon and those in the Guiana coastal drainages, both in strictly freshwater and marine-tolerant lineages. Regardless of salt-tolerance considerations, it is expected that the biogeographical pattern described above is at most ~11 Ma, i.e., as old as the age of the present connection between the Amazonas and the Atlantic (Hoorn, 1994a, 1994b, 1996; Potter, 1997) and also coinciding with the corresponding Andean uplift at that latitude (Hoorn et al., 1995).

EASTERN AMAZON (EAST OF THE PURUS ARCH)

Structural arches like the Purus Arch are basement structures located under sediments of different ages that are not exposed superficially in the eastern Amazon (Rossetti et al., 2005). As a consequence, such structures cannot have acted as biogeographical barriers from the end of the Miocene to the present (Campbell et al., 2006; Lima and Ribeiro, 2011). The Purus Arch is thought to have acted as a crucial barrier until the late Miocene, dividing the Eastern and Western Amazon (Figueiredo et al., 2009; Hoorn et al., 2017), although its role in the formation of the Amazon and its influence in the distribution

of the biota remain controversial (see Wesselingh and Salo, 2006). Why and how two previously disconnected aquatic systems, the eastern and the western Amazon, merged is still unclear (Hoorn, 1994a, 1994b; Wesselingh, 2006; Figueiredo et al., 2009; Hoorn et al., 2017). Such uncertainty impedes proper understanding of the consequences of the event for the biogeography of Amazonian fishes. It is certain nonetheless that several lineages of fishes display distributions spatially congruent with a western/eastern Amazon divide, with their limit coinciding exactly with the Purus Arch.

The Eastern Amazon pattern may represent the distribution of species historically associated with the region lying east to the Purus Arch, for the most part cratonic and draining clear or black waters (Harris and Mix, 2002; Wesselingh and Hoorn, 2011). This pattern comprises the drainages of the Rio Negro, Orinoco, Essequibo, and Amazonian versants of the Brazilian and Guianan shields (fig. 14A). Some examples of this pattern are: *Aphanotorulus emarginatus* (see fig. 14B; Ray and Armbruster, 2016), *Baryancistrus* spp., *Bivibranchia fowleri*, *Colomesus tocantinensis* (see Ruiz, 2015), *Caquetaia spectabilis*, *Geophagus altifrons*, *Gnathodolus bidens*, *Hydrolycus tatauaia* (see Toledo-Piza et al., 1999), *Leporinus brunneus* (see Lima and Ribeiro, 2011), *Pachyurus junki* (fig. 14C) and *Synaptolaemus latofasciatus* (see fig. 14D; Britski et al., 2011). There are at least two examples of lineages distributed also in parts of the Atlantic drainages in the Guiana Shield, *Brycon* gr. *pesu* (see Planquette et al., 1996) and *Hoplias curupira* (see Oyakawa and Mattox, 2009).

Water type and drainage relief are not enough to explain why the Rio Negro basin, for example, shares such a great number of lineages with highland drainages, despite the Negro's small shield coverage. The existence of so many shared taxa exclusively between the Negro and shield rivers indicates a shared history.

The East of the Purus Arch pattern may be directly related to the hydrogeological dynamics of the Amazon basin during the Miocene.



FIG. 14. Eastern Amazon. **A.** Yellow area delimits the distribution pattern (wavy line represents position of Purus Arch). **B.** *Aphanorhodus emarginatus* (data from Ray and Armbruster, 2016). **C.** *Pachyurus junki* (records from MZUSP). **D.** *Synaptolaemus latofasciatus* (data from Britski et al., 2011).

The uplift of the central and north portions of the Andes created an overload on the South American plate that caused a lithospheric flexion, which in turn opened space for the formation of a sub-Andean Foreland basin (Sacek, 2014). Between ~24 and 16 Ma, this foreland basin received sediments from rivers draining west of the Purus Arch and east of the Andes, carrying them northward toward the Caribbean (Crampton, 2011; Sacek, 2014). At least since the Eocene, the Purus Arch (fig. 14A) was a divide between the basins draining east (eastern Amazon basin) and those draining westward (Lundberg et al., 1998; Costa et al., 2001; Crampton, 2011; Lujan and Armbruster, 2011). At that time, the eastern Amazon basin was formed by rivers draining shield areas, sediment poor and probably clear- or blackwater (Harris and Mix, 2002; Wesselingh and

Hoorn, 2011). That phase was followed by the formation of an immense lacustrine system known as Pebas (~16 to 10.5 Ma), probably separated from the eastern Amazon system also by the Purus Arch (Figueiredo et al., 2009; Crampton, 2011; Sacek, 2014). The accumulation of sediments, mostly Andean in origin, in the foreland basin and the continuing Andean uplift (Crampton, 2011; Lima and Ribeiro, 2011) resulted in a breaching of the Purus Arch and a connection between that drainage and the eastern Amazon, forming a transcontinental basin and starting the Andean sedimentary deposition in the Brazilian equatorial margin, which extends to the present (Figueiredo et al., 2009; Sacek, 2014).

Andean sediments in large amounts in the mouth of the Amazon begin approximately by 7 Ma, indicating that the west-east water divide

was effective until that date (Hoorn, 1994b; Figueiredo et al., 2009; Crampton, 2011; for more recent estimates, see Roddaz et al., 2005; Rossetti et al., 2005; Campbell et al., 2006; Espurt et al., 2007). As a consequence, the pattern East of the Purus Arch pattern described herein is at least between 2.6 and 7 Ma, but in reality, it is probably far older because that time interval marks only the last instant before lineages south and north of the Amazonian tributaries were separated. A biogeographical pattern similar to the one described here was mentioned by both Eigenmann (1909) and Lima and Ribeiro (2011) under the highlands designation. However, for both authors relief is the decisive factor explaining the spatial distribution of fish species, rather than the past influence of the Purus Arch as proposed here. It is important to note that the Purus Arch today has no influence as a barrier on species distributions. Its role is relevant as a past barrier, when it formed the water divide between eastern and western Amazon. The reason why most lineages on each side of the divide do not expand their distributions is a mystery, perhaps related to historical-ecological factors independent of any present-day physical remains of the Purus Arch. The fish lineages east of the Purus arch are mostly ecologically restricted to fast-flowing and sediment-poor tributaries, not entering the main Amazonian channel. The westward dispersion of those species was once limited by the Purus Arch when it was an effective barrier. The demise of the Purus Arch as a significant barrier is synchronous with the formation of the main channel of the Amazon. Slightly upstream of the mouth of the Rio Negro, approximately at the site of the ancient Purus Arch barrier, the main channel of the Amazon becomes significantly deeper (Gerritana and Paiva, 2013). That factor, in combination with the simultaneous massive input of acidic waters from the Rio Negro, probably makes the region impervious to many taxa narrowly adapted to conditions of western Amazon waters.

This region then started acting as an ecological barrier to those species west of the former Purus Arch, effectively replacing it. This provides an example that distributional patterns may have been determined by past barriers having no relation to current geographical boundaries, but nonetheless linked by a causal chain of different yet overlapping barriers. Of course, the number of fish species showing this pattern may seem small in view of the potential importance of the Purus Arch. However, the congruent distributions of unrelated lineages despite the absence of any apparent physical or ecological barriers cannot be ignored and may represent the last remnants of a common biogeographical history.

AMAZON-CORE UPLANDS

This pattern comprises species endemic to basins that drain the Brazilian and Guiana shields both in Atlantic and Amazonian versants. As mentioned above in South American Lowlands, Eigenmann (1909) was the first author to identify faunistic differences between South American lowlands and highlands. That author also inferred ages for those regions, implying that they have distinct biogeographical histories. Eigenmann (1909: 318) correctly proposes that both the Guianan and Brazilian shields are older than lowland regions: "The parts that first arose out of the sea and became populated with freshwater fishes were probably two land areas. The one embraces the highlands of Guiana and Northern Brazil, the other the highlands of Brazil east of the Araguay and south of the falls of the Tapajos." The pattern described here is very similar to the one described by Eigenmann (1909) and differs from the Eastern Amazon pattern in excluding predominantly lowland drainages such as the Rio Negro and by including Guiana coastal basins (fig. 15A). Fishes displaying the Amazon-Core Highlands pattern are in general rheophilic: *Acnodon* spp., *Anostomus teretzi* (see Lima and Ribeiro, 2011), *Cetopsisidium* spp. (also in upper Rio Negro, see fig. 15B; Vari



FIG. 15. Amazon-core uplands. A. Yellow area delimits the distribution pattern. (B) *Cetopsidium* spp. (data from Vari et al., 2005, with additional records from MZUSP and LIRP). C. *Hemigrammus ora* (data from Jerep et al., 2011, with additional records from MZUSP). D. *Hoplias aimara* (data from Mattox et al., 2006).

et al., 2005), *Centromochlus schultzi*, *Hemibrycon surinamensis* (see Bertaco and Malabarba, 2010), *Hemigrammus ora* (see fig. 15C; Jerep et al., 2011), *Hoplias aimara* (see fig. 15D; Mattox et al., 2006), *Jupiaba essequibensis*, *J. gr. meunieri* and *J. polylepis*, *Krobia* spp., *Leporinus maculatus*, *Leporinus* gr. *granti*, *Moenkhausia grandisquamis*, *Mylesinus* spp., *Petulanos* spp., *Retroculus* spp., *Roeboexodon guianensis* (see Lima and Ribeiro, 2011), and *Tometes* spp. (see Andrade, 2013; Andrade et al., 2016). The five categories described below are sub-patterns within the larger Highland Amazon Core pattern.

Amazonian Uplands

This pattern comprises exclusively Amazonian rivers draining both shields, Brazilian and Guianan

(fig. 16A). Exact limits of this pattern are yet somewhat vague because known examples are species or lineages that occur in very narrow sectors of rivers, forming fragmented distributions based on sparse records. Species following this pattern are typically rheophilic and include: *Archolaemus luciae* (see Vari et al., 2012), *Baryancistrus niveatus*, *Cetopsidium orientale* (see Vari et al., 2005), *Doras higuchii* (see Sabaj Pérez et al., 2008), *Hypomasticus julii*, *Leporinus britskii* (see Feitosa et al., 2011), *Leporinus microphysus* (see Birindelli and Britski, 2013), *Leporinus pachycheilus* (also in Rio Araguari basin, see Santos et al., 1996), *Metynniss anisurus* (also in upper Rio Paraná basin, see Ota, 2015), *Moenkhausia celibela* (see Marinho and Langeani, 2010), *Mylesinus schomburgkii*, *Sartor* spp. (fig. 16B), and *Teleocichla* spp. (fig. 16C) and *Tocantinsia piresi* (fig. 16D).



FIG. 16. Amazonian uplands. **A.** Yellow area delimits the distribution pattern. **B.** *Sartor* spp. (records from MZUSP). **C.** *Teleocichla* spp. (records from MZUSP). **D.** *Tocantinsia piresi* (records from MZUSP).

Guiana Shield
(Atlantic and Amazonian Versants)

This pattern includes lineages shared exclusively between Amazonian and Atlantic versants of rivers draining the Guiana Shield (fig. 17A). It possibly results from ichthyofaunistic exchange caused by stream capture events (see Cardoso and Montoya-Burgos, 2009). The pattern as a whole is probably not temporally congruent, but instead formed by independent events that caused faunistic mixing in the region, a common phenomenon between neighboring headwaters in shield rivers. Nijssen (1970) was the first author to propose that the headwater regions of north and south Guianan rivers might serve as a corridor for fish distribution. Subsequent authors, such as Cardoso and Montoya-Burgos (2009) and Lujan and Armbruster (2011), proposed additional examples of this pattern and its

role as a faunistic connection between the Guianas and the Amazon.

There are few examples of this pattern, in part as a result of the yet incipient knowledge on the fish fauna of upper reaches of Amazonian versants of the Guiana Shield. Some examples include: *Corydoras baderi* (Paru do Oeste and Maroni, see Nijssen and Isbrücker, 1980), *Cteniloricaria* spp. (Paru do Oeste, Maroni, Suriname, Corentyne, and Essequibo, see Covain et al., 2012), *Hypomasticus megalepis* (Trombetas, Uatumã and Guianese rivers, see Mol et al., 2012; J. Birindelli, personal commun.), *Lithoxus* spp. (Fisch-Muller, 2003), *Microglanis secundus* (Trombetas and Saramacca, see Ruiz and Shibatta, 2010), *Parodon guyanensis* (Paru do Oeste, Maroni, Suriname, Corentyne, and Essequibo), *Parotocinclus halbothi* (Trombetas and Maroni,



FIG. 17. Guiana Shield (Atlantic and Amazonian versants). **A.** Yellow area delimits the distribution pattern. **B.** *Pseudancistrus brevispinis* (data from Cardoso and Montoya-Burgos, 2009).

see Lehmann et al., 2014), *Pseudancistrus brevispinis* (Paru do Oeste, Jari and Guianese rivers, see fig. 17B; Cardoso and Montoya-Burgos, 2009), *Stenolicmus ix* (Curuá and Maroni, see Wosiacki et al., 2011; G. Dutra, personal commun.), and the clade *Hypomasticus despaxi* + *H. lineomaculatus* (Paru, Jari, and Maroni, see Birindelli et al., 2013).

Longitudinal Shield Correspondence among Amazonian Shield Versants

This pattern is characterized by lineages that are present in both shields and follow a longitudinal correspondence among basins (fig. 18A). The pattern is expressed as lineages shared among the westernmost and easternmost parts of the cratonic region. In the western basins (Trombetas and Tapajós) examples include *Sartor gr. elongatus* (fig. 18B), *Bryconexodon* spp. (fig. 18C), *Laimosemion dibaphus* (see Costa, 2006) and *Hypoptopoma elongatum* (see Aquino and Schaefer, 2010). In the eastern basins, as the Jari, Xingu, and Tocantins, some examples are *Acnodon* spp., *Anablepsoides urophthalmus* (see Costa, 2006), *Bivibranchia velox* (Fig 18D), *Hypomasticus multimaculatus* (see Birindelli et al., 2016), and *Sternarchella sima* (Ivanyisky III and Albert, 2014). The first author to recognize

this pattern was Jégu (1992a), on the basis of some shared characiform taxa.

Brazilian Shield

This distribution pattern is defined by lineages occurring exclusively in the area corresponding to Amazon-draining Brazilian Shield rivers, formed by the Tocantins, Xingu, Tapajós basins, and some shield tributaries of the Rio Madeira (fig. 19A). Those are all highland rivers draining the ancient crystalline basement of the Brazilian Shield and most of them possess major rapids and/or waterfalls (Innocencio, 1989; Lima and Ribeiro, 2011). This pattern is recovered, in part, in the analyses of Dagosta and de Pinna (2017).

Known examples of this pattern are typically rheophilic species. Probably the ecological conditions prevailing in lowland Amazonian environments act as barriers to their distributions (Géry, 1969). Géry (1962) proposes the circumferential pattern (lateral interbasin migration) for some species, suggesting that this pattern (encircling lowland South American lands, but never entering them) results from the ecological limitations of taxa restricted to fast-flowing rivers with high oxygen levels. This seems to be the explanation for the distributions of many Amazonian taxa restricted to the Brazilian Shield.



FIG. 18. Longitudinal correspondence among Amazonian Shield versants. A. Red area delimits the distribution pattern of western basins (Trombetas and Tapajós); yellow area the western basins pattern (Jari, Xingu, and Tocantins). B. *Sartor gr. elongatus* (records from MZUSP). C. *Bryconexodon* spp. (records from MZUSP). D. *Bivibranchia velox* (records from MZUSP).

Géry (1962) used a dispersalist paradigm to explain lateral movements between basins. The author, however, actually adopted the notion of biotic dispersal (sensu Platnick and Nelson, 1978) rather than a true dispersalist framework. In that sense, his argument was essentially correct, because elements shared between neighboring basins have been associated with rearrangements of the hydrographic network (e.g., stream capture) resulting from neotectonic activity (see Lima and Ribeiro, 2011; Ribeiro et al., 2013). This interpretation of Géry's hypothesis is clear in the following passage, where he proposes that the suppression of a barrier, even if momentarily, would have allowed the spread of a lineage: "Characids show a tendency to invade laterally their adjacent basins (by means of these temporary or permanent connections)" (Géry,

1962: 68). Another instance that demonstrates that the author did not follow pure dispersalism is: "The speciation (or subspeciation) occurred after the passage of the forms from one basin to another in 'circumferential' progression, rather than after having propagated along each great river" (Géry, 1962: 78).

Examples of this pattern include: *Acestrocephalus nigrofasciatus* (Xingu, Juruena, and Jamanxim), *Acestrocephalus stigmatus* (Tocantins, Xingu, and Tapajós), *Ancistrus ranunculus* (Tocantins, Xingu, and Tapajós), *Baryancistrus longipinnis* (Tocantins, Xingu, and Tapajós), *Bryconadenos tanaothoros* (Xingu, Teles Pires, and Juruena), *Caiapobrycon* spp. (Tocantins, Xingu, and Tapajós, fig. 19B), *Crenicichla acutirostris* (Xingu, Tapajós, and shield portions of the Madeira; see Ploeg, 1991), *Jupiaba apenima*



FIG. 19. Brazilian Shield. **A.** Yellow area delimits the distribution pattern. **B.** *Caiapobrycon* spp. (records from MZUSP). **C.** *Jupiaba apenima* (records from MZUSP). **D.** *Moenkhausia* gr. *pankilopteryx/pirauba* (records from MZUSP).

(Tocantins, Xingu, and Tapajós, fig. 19C), *Jupiaba iasy* (Xingu, Tapajós, and shield portions of the Madeira), *Leporinus tristriatus* (Tocantins, Xingu, and Tapajós; see Birindelli and Britski, 2013), *Moenkhausia* gr. *pankilopteryx/pirauba* (Tocantins, Xingu, Tapajós, and shield tributaries of the Rio Madeira, fig. 19D), *Panaque armbrusteri* (Tocantins, Xingu, and Tapajós; see Lujan et al., 2010), *Petulanos intermedius* (Xingu, Tapajós, and shield portions of the Madeira), *Thayeria boehlkei* (Tocantins, Xingu and, Tapajós; see Lima and Ribeiro, 2011), *Rhinopetitia* spp. (Tocantins, Xingu, and Tapajós) and *Scobinancistrus* spp. (Tocantins, Xingu, and Tapajós). Some species occur both in the Amazonian sector of the Brazilian Shield and in the headwaters of the Rio Paraguay, a pattern discussed by Ribeiro et al. (2013) for *Jupiaba acanthogaster*.

Additional examples include: *Hyphessobrycon* gr. *vilmae*, *Moenkhausia* gr. *phaeonota*, *Moenkhausia* gr. *lopesi*, and the genus *Utiaritichthys*.

Barring the unlikely possibility that all the taxa listed above became extinct in the Guiana Shield, then their age of diversification is maximally ~12–10 Ma. (Dobson et al., 2001; Figueiredo et al., 2009; Mora et al., 2010), when the Amazon river began depositing sediments on the Brazilian equatorial margin (Sacek, 2014), thus impeding rheophilic lineages from spreading their ranges to Guiana Shield regions.

Extreme Shield: Chapada dos Parecis

The Chapada dos Parecis is an elevated geomorphological formation located in the western portion of the Brazilian Shield, in central South

America. It includes headwaters of various drainages, such as Rio Machado, Rio Guaporé, Paraguay, and mostly the Juruena. Many papers have proposed the Chapada dos Parecis as an area of endemism (Carvalho and Bertaco, 2006; Britski and Lima, 2007; Lima et al., 2007; Pastana and Dagosta, 2014; Ohara and Lima, 2015a). Yet, there are other noteworthy characteristics that must be noted for the ichthyofauna in that region. The portion of the Chapada dos Parecis drained (mostly) by the Juruena is the extreme case of the pattern expected for shield composition, with an extremely high level of endemism (Carvalho and Bertaco, 2006; Britski and Lima, 2007). Cases of closely related lineages coexisting are rare, diversity is low and there are very few taxa broadly distributed in the rest of the Amazon.

East of the Rio Juruena in the Chapada dos Parecis, through the basins of the Rio Arinos, Rio Teles Pires, Rio Xingu, and Rio Tocantins-Araguaia, there is a trend toward reduction in endemism and an increase in the number of sympatric congeneric species, in species diversity, and in widely distributed species. The Rio Juruena, like other basins in that formation, contains no members of typically marine lineages (Myers' 1938 peripheral division) (figs. 12A–E) and very few lowland Amazonian components. For example, *Arapaima*, *Osteoglossum*, *Colossoma*, and large pimelodids (*Brachyplatystoma*, see Barthem et al., 2017; *Phractocephalus*) are all absent. More relevant still is the fact that dozens of lineages present in other Brazilian Shield drainages are absent in the Rio Juruena at Chapada dos Parecis, such as *Acestrocephalus acutus*, *Acestrorhynchus micropeilis* (see González, 2015), *Anostomoides passionis*, *Archolaemus luciae* (see Vari et al., 2012), *Argonectes robertsi*, *Astyanax multidentis* (see Marinho and Birindelli, 2013), *Bivibranchia notata*, *Bryconadenos tanaothoros* (present only in Rio Arinos basin), *Cyphocharax stilbolepis*, *Electrophorus electricus*, *Harttia dissidens*, *Hemigrammus levis*, *H. ora* (see Jerep et al., 2011), *Hyphessobrycon loweae* + *H. pegeouti* clade (see Ingenito et al., 2013), *H. moniliger*, *H. vilmae*, *H. pulchripinnis*, *Jupiaba apenima*, *J. anteroides*, *J. apenima*, *J. iasy*,

J. paranatinga, *J. polylepis*, *Laetacara araguaiaiae*, *Leporinus britskii*, *L. julii*, *L. microphysus*, *Leptodoras oyakawai*, *Leptorhamdia schultzi*, *Macropso-brycon xinguensis*, *Megadontognathus kaitukaensis*, *Moenkhausia celibela*, *M. collettii*, *Otocinclus hasemani*, *Panaque armbrusteri*, *Petulanos intermedius*, *Pseudanos* spp. (see Birindelli et al., 2012), *Pimelodus tetramerus*, *Rhinopetitia* spp., *Roeboexodon guyanensis*, *Serrasalmus rhombeus*, *Sorubim trigonocephalus*, *Spectracanthicus murinus*, *Teleocichla* spp. (fig. 16C), and *Tocantinsia piresi* (fig. 16D).

Among all basins of the Amazonian versant of the Brazilian Shield, the portion of the Rio Juruena draining the Chapada dos Parecis has the most rapids and waterfalls. Britski and Lima (2007) suggest this factor as the reason for the high endemism in the region. We add that the same factor may serve as barriers in the opposite direction and explains also the absence of many lineages common in other Brazilian Shield basins. Thus, the abundance of rapids and waterfalls provides a threefold explanation: for the lack of specific lineages, for reduced sympatry and for decreased species richness. The Rio Iriri and Rio Teles Pires draining the Serra do Cachimbo and the upper Tocantins at the Chapada dos Veadeiros are two additional regions that can be classified as Extreme Shield. Both of them also drain the ancient crystalline basement of the Brazilian Shield and are dotted with rapids and waterfalls. Thus, they show pronounced faunal regionalization and are very poor in diversity when compared to other sectors of the Tapajós, Xingu e Tocantins basins.

Exclusive Faunal Sharing between Neighboring Basins

The sharing of exclusive faunal elements between two basins does not imply that such lineages are broadly distributed in both basins. This fact is evident in the eastern Amazon basins. Geographical distributions tend to be more restricted in highlands (see Albert and Crampton, 2005; Ribeiro, 2006; Maxime and

Albert, 2009), where species have smaller ranges and most cases of broader distributions involve species or clades shared with neighboring basins. Such faunal similarities are in most instances associated with river captures caused by reactivation of faults or headward erosion (Ribeiro, 2006; Lima, 2017). Below we list and discuss stereotypical cases of exclusive faunal sharing between neighboring basins in the Amazon:

TAPAJÓS AND PARAGUAY

The fish fauna shared between Tapajós and Paraguay basins has been repeatedly recognized in the literature (see Lima et al., 2007; Carvalho and Albert, 2011a; Ribeiro et al., 2013) and some examples include: *Aequidens rondoni* (see Lima et al., 2007), *Leporinus octomaculatus* (fig. 20, see Birindelli and Britski, 2009), and *Crenicichla ploegi*. Additional examples are: *Moenkhausia cosmops* (also present in Guaporé basin, fig. 20), *Moenkhausia* gr. *lopesi* (also present in Rio Araguaia basin) and the genus *Utiaritchthys* (also present in shield tributaries of the Madeira).

TAPAJÓS AND XINGU

Taxa shared between the Tapajós and Xingu basins are: *Anostomoides passionis*, *Archolaemus janeae* (see Vari et al., 2012), *Bryconadenos* spp. (fig. 20, see Menezes et al., 2009), *Cichla miriana* (fig. 20, see Kullander and Ferreira, 2006), *Creagrutus cracentis* (see Dagosta and Pastana, 2014), *Hopliancistrus* spp., *Hyphessobrycon cachimbensis* (fig. 20), *Hyphessobrycon cyanotaenia* (fig. 20, see Dagosta et al., 2016; also in Guaporé basin), *Leptodoras oyakawai* (see Birindelli et al., 2008), *Lebiasina melanoguttata* (fig. 20), *Leporinus villasboasorum* (see Burns et al., 2017), *Leptorhamdia schultzi*, *Megadontognathus kaitukaensis* (see Campos-da-Paz, 1999), *Peckoltia feldbergae*, *Pyrrhulina marilynae* (fig. 20, see Netto-Ferreira and Marinho, 2013), *Retroculus xinguensis*, *Spatuloricaria taira* (see Fichberg et al., 2014), and *Teleocichla prionogenys*.

TAPAJÓS AND MADEIRA

Different subdrainages that compose the Rio Madeira basin variably share exclusive ichthyofaunistic elements with the Rio Tapajós. Most shared elements are between the Aripuanã and the Juruena, such as *Ancistrus parecis* (see De Oliveira et al., 2016), *Hemigrammus silimoni* (fig. 20, see Dagosta, 2016), *Inpaichthys* spp. (fig. 20, see Dagosta, 2016), *Moenkhausia levidorsa* (fig. 20, see Dagosta, 2016), the clade *Crenicichla chicha* + *C. hemera* (see Varella et al., 2012), and genus *Utiaritchthys* (also present in upper Paraguay, fig. 20). There are also at least four examples of exclusive sharing between the Rio Juruena and the Rio Guaporé basin (*Hyphessobrycon psittacus*, fig. 20; *Hyphessobrycon hexastichos*, fig. 20; *Moenkhausia rubra*, fig. 20; *Moenkhausia uirapuru*, fig. 20) and three with the Rio Machado: *Bryconops piracolina* and *Hyphessobrycon melanostichos* (see Dagosta, 2016), and *Corydoras hephaestus*. Some taxa have wider distributions in the Tapajós and the Madeira, but are shared exclusively between the two basins (*Steindachnerina fasciata*, see Netto-Ferreira and Vari, 2011).

Most importantly, virtually all cases listed above involve shield tributaries of the Madeira, and no known case of a species or clade that occurs in the main channel of the Madeira that is also shared exclusively with the Rio Tapajós basin.

Recently, Tencatt and Ohara (2016) proposed a distribution pattern of Amazonian fishes delimited by interfluvial region between the Rio Madeira and the Rio Tapajós. Their arguments on fish species distributed in both systems are the same examples previously listed in Dagosta (2016) as evidence for the historical connections between the Tapajós and Madeira basins. However, Tencatt and Ohara claim the existence of congruence between the distribution of freshwater fishes and terrestrial organisms (birds, butterflies, primates and vascular plants) in the region between the Rio Madeira and the Rio Tapajós. However, freshwater fish distributions are limited by land tracts (save rare exceptions, e.g., Géry, 1964; 1969, for the Rio Amazonas and Goulding et al., 1988, for the Rio



Negro). The ichthyofaunal sharing between the Madeira and Tapajós results from a recent and localized history, influenced by geomorphological processes that resulted in stream capture events across the region that separates those basins and which caused biotic dispersal. Stream capture is a phenomenon entirely independent of the geographical isolation of terrestrial animals as inferred by Tencatt and Ohara. The rivers Tapajós and Madeira are the obvious barriers for the distribution of other terrestrial animals (e.g., birds, see Fernandes et al., 2014; Oppenheimer and Silveira, 2009). Species of fish are limited by waterfalls and land tracts. The patterns result from entirely different biogeographical phenomena and we believe there is no spatial or temporal homology between such apparent coincidences.

XINGU AND PARAGUAY

There are few examples of species or clades shared exclusively between these basins: *Hypoptopoma inexpectatum* (see Aquino and Schaefer, 2010), *Steindachnerina brevipinna* (see Netto-Ferreira and Vari, 2011), and the clade *Characidium nupelia* + *C. xavante* (see da Graça et al., 2008).

XINGU AND TOCANTINS

Examples of this pattern here recognized are: *Acnodon normani*, *Aspidoras poecilus* (see Nijssen and Isbrücker, 1976), *Astyanax argyrimarginatus*, *Bivibranchia velox* (see Langeani, 1996), *Centromochlus simplex*, *Creagrutus britskii* (see Meza-Vargas, 2015), *Creagrutus mucipu* (see Meza-Vargas,

2015), *Hemiancistrus spilomma*, *Hemiodus tocantinnensis*, *Hyphessobrycon loweae* (see Ingenito et al., 2013), *Hypostomus faveolus* (see Zawadzki et al., 2008), *Laemolyta fernandezi*, *Melanocharacidium auroradiatum*, *Mesonauta acora* (see Kullander and Silfvergrip, 1991), *Moenkhausia loweae* (see Marinho, 2009), *Moenkhausia pyrophthalma*, *Rhynchodoras xingui* (see Birindelli et al., 2007), *Semaprochilodus brama* (see Castro and Vari, 2004), *Sternopygus xingu*, and *Tometes ancylorhynchus* (see Andrade et al., 2016).

TOCANTINS AND PARAGUAY

Only *Cyphocharax vanderi* (see Claro-García and Shibatta, 2013), *Hasemanianus hansenii*, and *Knodus chapadae* (see Ferreira, 2007) are exclusively shared between these basins.

TOCANTINS AND SÃO FRANCISCO

Although examples of taxa shared exclusively between the Tocantins and São Francisco are few, they have received considerable attention in the literature (see Lima and Caires, 2011; Dagosta et al., 2014). The cases recognized here are: *Cichlasoma sanctifranciscense* (see Lima and Caires, 2011; Dagosta et al., 2014), *Hyphessobrycon diastatos* (see Dagosta et al., 2014), and some lineages of *Cynolebias* and *Hypsolebias* (see Costa, 2010). The species *Astyanax novae* was previously considered as one more example of this pattern (Garutti and Venere, 2009; Lima and Caires, 2011; Dagosta et al., 2014), but in reality has a wider distribution (see Freitas et al., 2015).

FIG. 20. Distribution of some lineages in Rio Tapajós basin and neighboring drainages. Dots are records in Rio Tapajós basin; stars are records in neighboring drainages. Data from MZUSP with additional records from literature. Each color represents a different lineage: light blue (*Hemigrammus silimoni*, see Dagosta et al., 2016); dark blue (*Hyphessobrycon cyanotaenia*, see Dagosta et al., 2016); light violet (*Hyphessobrycon hexastichos*); dark violet (*Hyphessobrycon cachimbensis*); white (*Hyphessobrycon melanostichos*); light yellow (*Hyphessobrycon psittacus*, see Dagosta et al. 2016); dark yellow (*Moenkhausia levidorsa*, see Dagosta et al., 2016); light green (*Bryconadeno tanaothoros*); dark green (*Inpaichthys* spp., see Dagosta et al., 2016); red (*Moenkhausia cosmops*, see Ohara and Lima, 2015b); orange (*Moenkhausia rubra*); dark pink (*Moenkhausia uirapuru*, see Ohara and Lima, 2015b); light pink (*Utiaritchthys* spp.); light brown (*Leporinus octomaculatus*, see Birindelli and Britski, 2009); dark brown (*Pyrrhulina marylinae*, see Netto-Ferreira and Marinho, 2013); black (*Cichla mirianae*, see Kullander and Ferreira, 2006); grey (*Lebiasina melanoguttata*).

TOCANTINS AND UPPER PARANÁ

Some confirmed examples of lineages shared between those regions are: *Characidium xanthopteron* (see Silveira et al., 2008), *Corumbataia* spp. (see Britski, 1997; Carvalho, 2008), *Hasemania crenuchoides* (see Serra and Langeani, 2015), and *Rhinolekos* spp. (see Martins and Langeani, 2011; Roxo et al., 2015). Additional species are shared exclusively between the Tocantins and upper Paraná plus the São Francisco: *Brycon nattereri* (see Lima, 2017), *Moenkhausia aurantia*, *Hyphessobrycon coelestinus* (see Aquino and Carvalho, 2014), and *Cetopsorhamdia iheringi*.

MADEIRA AND PARAGUAY

As discussed above in South American Lowlands, there are many events of biotic dispersal between the Amazon and the upper Paraguay, with all cases involving only part of the Rio Madeira basin. It is therefore not surprising that several taxa are shared between the Madeira and the Paraguay and that such congruent distributions are for the most part temporally decoupled, i.e., pseudocongruences (sensu Donoghue and Moore, 2003). Different subbasins of the Rio Madeira drainage share taxa exclusively with the Paraná-Paraguay, with most of such cases being from the Rio Guaporé and the Rio Mamoré. Many studies have discussed a common biogeographical history between those two regions (see Pearson, 1937; Hubert and Renno, 2006; Carvalho and Albert, 2011b; Ota et al., 2014). Some examples are: *Aequidens plagiozonatus*, *Aphyocharax anisitsi* (see Souza-Lima, 2003), *Apistogramma trifasciata* (see Kullander, 2003), *Astyanacinus moorii*, *Astyanax lineatus*, *Cetopsis starnesi* (see Vari et al., 2005), *Corydoras polystictus*, *Gymnogeophagus balzanii* (see Reis and Malabarba, 1988), *Hemigrammus machadoi* (see Ota et al., 2014), *H. mahnerti* (see Ota, 2010), *H. tridens*, *Hyphessobrycon elachys*, *H. megalopterus* (see Lima and Malabarba, 2003), *Imparfinis guttatus* (see Queiroz et al., 2013), *Laetacara dorsigera* (see Linke and Staack, 1994), *Markiana*

nigripinnis, *Megalonema platanum* (see Queiroz et al., 2013), *Odontostilbe paraguayensis* (see Bührnheim, 2006), *Oligosarcus pintoii* (see Ribeiro and Menezes, 2015), *Parodon carrikeri* (see Schaefer, 2011), *Piabucus melanostomus* (see Britski et al., 1999; Queiroz et al., 2013), *Pimelodella mucosa* (see Queiroz et al., 2013), *Psectrogaster curviventris* (see Vari, 1989b), *Rineloricaria aurata* (see Vera-Alcaraz et al., 2012), *Scoloplax empousa* (see Schaefer et al., 1989), and *Trachydoras paraguayensis* (see Sabaj and Arce, 2017).

BRANCO AND ESSEQUIBO

Those two basins have a common geomorphological history resulting from a series of capture events of the proto-Berbice by the Rio Branco drainage during the Pleistocene (Crawford et al., 1985; Gibbs and Barron, 1993; Souza et al., 2012). Such events may account for the conspicuous elements shared between the two basins (see Lujan and Armbruster, 2011; Souza et al., 2012). Some examples include: *Apistogramma rupununi* (see Kullander, 2003), *Astyanax rupununi* (see Souza et al., 2012), *Cetopsidium roae* (see Souza et al., 2012), *Denticetopsis iwokrama* (see Souza et al., 2012), *Guianacara dacrya* (Arbour and López-Fernández, 2011), *Hypostomus macushi* (see Armbruster and Souza, 2005), *Parodon bifasciatus* (see Souza et al., 2012), *Pseudancistrus nigrescens* (see Souza et al., 2012), *Rhinodoras armbrusteri* (Sabaj Pérez et al., 2008), and *Sturisoma monopelte* (see Souza et al., 2012).

NEGRO AND ORINOCO

A number of contributions have explored the common biogeographical history of these two basins (see Winemiller et al., 2008; Willis et al., 2010; Winemiller and Willis, 2011). Examples of fish species shared exclusively between the Negro and the Orinoco are numerous and include: *Acestridium dichromum* (see Retzer et al., 1999), *Acestridium martini* (see Retzer et al., 1999), *Creagrutus phasma* (see Vari and Harold, 2001), *Creagrutus runa*, *C. vexillapinnus* and *C.*

zephyrus (see Vari and Harold, 2001), *Geophagus abalios* and *G. dicrozoster* (see López-Fernández and Taphorn, 2004), *Hemiancistrus subviridis* (see Wernecke et al., 2005), *Hemigrammus barrigonae*, *Hemigrammus bleheri* (see Géry and Mahnert, 1986), *Heterocharax leptogrammus* (see Toledo-Piza, 2000b), *Hoplarchus psittacus*, *Hyphessobrycon epicharis* (see Weitzman and Palmer, 1997), *Hypostomus sculpodon* (see Armbruster, 2003), *Laetacara fulvipinnis* (see Staeck and Schindler, 2007), *Leporinus enyae* (see Burns et al., 2017), *Microcharacidium gnomus* (see Buckup, 1993), *Neblichthys pilosus* (see Ferraris et al., 1986), *Odontostilbe pulchra* (see Bührnheim and Malabarba, 2007), *Phenacogaster prolatus* (see Lucena and Malabarba, 2010), *Prochilodus mariae* (see Castro and Vari, 2004), *Pseudancistrus pectegenitor* (see Lujan et al., 2007), *Pseudancistrus sidereus* (see Armbruster, 2004), *Pseudanos varii* (see Birindelli et al., 2012), *Pseudolithoxus nicoi* (see Lujan and Birindelli, 2011), *Pterophyllum altum* (see Schultz, 1967), *Ptychocharax rhyacophila* (see Weitzman et al., 1994), *Racenisia fimbriipinna* (see Mago-Leccia, 1994), *Rhinobrycon negrensis* (see Lasso et al., 2004), *Serrabrycon magoi* (see Lasso et al., 2004), and *Tometes makue* (see Andrade, 2013).

The Casiquiare Canal is a portion of the Rio Orinoco that was redirected to flow part of the year to the Rio Negro basin (Albert and Carvalho, 2011) and that now connects the two drainages by a permanent waterway with minimal gradient. Such a connection was mentioned by Eigenmann (1909) in his description of his Amazon Province in a dispersalist context and later proposed by Vari (1988) as the factor responsible for some curimatid species shared between the Amazon and Orinoco. Albert et al. (2006) and Winemiller et al. (2008) questioned the relevance of the physical Casiquiare connection as a species-dispersal route, because there are rapids on both sides of the divide (e.g., in Porto Ayacucho and in São Gabriel da Cachoeira) and possible chemical barriers (pH, temperature, and conductivity). It is possible

that part of the fish fauna shared between the Orinoco and Negro is in fact derived from the proto-Amazon-Orinoco and predates their hydrological separation.

NEGRO AND BRANCO

The Rio Negro basin provides a clear example that hydrographic limits do not necessarily imply historical connections. Although the Rio Branco is the largest tributary of the Negro and the two are not separated by any physical barriers, each of them shares more species with adjoining non-Amazonian basins than with each other (with the Orinoco in the case of the Negro and with the Essequibo in the case of the Branco). In addition to the different geomorphological history of each basin, markedly different physicochemical parameters may also in part explain the small number of taxa exclusively shared between them. As pointed out by Ferreira et al. (2006), the Rio Negro predominantly drains lowland soils poor in cations with exceptionally low rates of mineral erosion, while the Rio Branco drains highland soils of an older landscape, richer in cations derived from the erosion of relatively stable igneous rocky beds. There are very few examples of species reliably restricted to the Negro and Branco: *Physopyxis cristata* (see Sousa and Py-Daniel, 2005), *Apistogramma gibbiceps* (see Kullander, 1980), and *Crenicichla virgatula* (see Ito, 2013).

NEGRO TO TROMBETAS

This pattern refers to the fish fauna common to the left-bank Amazonian tributaries east of the Rio Negro: Urubu, Uatumã, Nhamundá, and Trombetas. Together, they share some taxa exclusively with the Rio Negro or with the Negro-Orinoco: *Acestridium discus* (Negro, Branco, and Trombetas), *Ageneiosus polystictus* (Negro, Urubu, and Trombetas; see Ribeiro et al., 2017), *Asterophysus batrachus* (Orinoco-Negro and Uatumã), *Anduzedoras oxyrhynchus* (Orinoco-Negro, Branco, Urubu, and Trombetas),

Auchenipterichthys punctatus (Negro, Branco, and Urubu), *Nemuroglanis pauciradiatus* (Negro, Branco, Urubu, and Trombetas), *Pygidianops amphioxus* (Negro and Nhamundá; see de Pinna and Kirovsky, 2011), and *Poecilocharax weitzmani* (Orinoco-Negro, Branco, Urubu).

POORLY SAMPLED NEIGHBORING BASINS IN THE GUIANA SHIELD

Some basins draining the Guiana Shield into the Amazon, such as the Urubu, Uatumã, Trombetas, and Paru, are relatively poorly known as to their ichthyofaunal composition, with comparatively few reported species, rare cases of endemism and few species shared among each other. Such precarious knowledge precludes a clear understanding of the connections of the fish faunas in those basins and few relevant examples deserve note: the Uatumã and Trombetas exclusively share *Cetopsidium ferreirai* (see Vari et al., 2005) and *Cichla vazzoleri* (see Kullander and Ferreira, 2006), while the Paru and Jari exclusively have *Hypomasticus lineomaculatus* (see Birindelli et al., 2013).

CIS-ANDEAN FOOTHILLS

Another pattern related with the circumferential pattern of Géry (1962) is the cis-Andean Foothills distribution. The name refers to the highland region surrounding the cis-Andean lowlands, mostly around the Western Amazon (fig. 21A). As in the Brazilian Shield pattern, the present one comprises rheophilic species, restricted to fast-flowing, highly oxygenated waters. This pattern was first identified by Vari (1988: 360): "Other species ranges appear to be associated with the more swiftly flowing piedmont streams of the western margins of the Amazon basin, and those species extend north into the western and northern margins of the Río Orinoco system." Shortly thereafter, a similar pattern was described by Ibarra and Stewart (1989) for the Rio Napo, where the altitudinal gradient decisively influenced species com-

position (see Lujan et al., 2013, for a more complex scenario). The pattern described here differs from the shield patterns in being not only wider, but also associated with rivers draining the eastern versant of the Andean range, and sometimes the western versant as well. Because the examples known are absent in the Amazonian versants of the Brazilian and Guiana shields, this pattern seems to be strictly associated with the history of the foreland basin and with the Andean uplift.

Some of the known examples include species with both narrow and wide distributions. Examples in the former category include *Acrobrycon ipanquianus* (see Arcila et al., 2013), *Attonitus* (see Vari and Ortega, 2000), *Creagrutus flavescens*, *C. gephyrus*, *C. kunturus*, and *C. muelleri* (see Vari and Harold, 2001). Cases of wide distributions in the Andean Foothills pattern comprise the family Astroblepidae (see Schaefer and Arroyave, 2010), *Astyanacinus* spp. (see fig. 21B; Dagosta, 2011), *Ernstichthys* spp. (see Stewart, 1985), *Rhyacoglanis* (see Shibatta and Vari, 2017), *Xyliphius* spp. (see Carvalho et al., 2017), *Leporinus striatus* (see fig. 21C; Birindelli and Britski, 2013), *Steindachnerina dobula* (fig. 21D) and *S. guentheri* (see Vari, 1991), a clade composed of *Creagrutus muelleri*, *C. ouranonastes*, and *C. peruanus* (see Vari and Harold, 2001), and putative sister relationship between *Brycon hilarii* and *B. whitei* (see Lima, 2017). Another notable example is the entire genus *Hemibrycon* (excepting *H. surinamensis*, sole species in the genus with an Amazon-core Highlands pattern; see Bertaco and Malabarba, 2010).

Lima and Ribeiro (2011) discuss a pattern similar to the one described here, in which lineages are restricted to upper portions of the foreland basin due to ecological requirements. As done here, those authors also distinguish this highland of the Foreland Basin pattern from that of the Brazilian Shield highland pattern. Wilkinson et al. (2010), in a discussion of the action of the megafans, also propose a pattern similar to the one advanced here, although not distinguishing shield highlands from the foreland-basin highlands.



FIG. 21. Cis-Andean foothills. **A.** Yellow area delimits the distribution pattern. **B.** *Astyanacinus* spp. (data from Dagosta, 2011). **C.** *Leporinus striatus* (data from Birindelli and Britski, 2013). **D.** *Steindachmerina dobula* (data from Vari, 1991).

CENTRAL BLACKWATER AMAZON

The name of this pattern refers to the most common (although by no means exclusive) water type of the rivers within its limits. Its position is approximately at the central portion of the Amazon (fig. 22A), although its western limits are not precisely defined. The distribution of most examples extends to the mouth of the Rio Negro, with some going farther, to the lower Japurá, lake Tefé, or into Peru. To the east, the pattern is almost always delimited by the mouth of the Rio Tapajós. Northward, most examples are restricted to the Negro/Orinoco, with some lineages found also in the Essequibo. To the south, species extend to the middle portion of the Tapajós, but may be more broadly distributed in the Rio Madeira, to tributaries of Mamoré/Guaporé.

The first author to propose this pattern of distribution was Kullander (1986), in discussing congruent areas between species of cichlids and characids of the genus *Paracheirodon* (see Kullander, 1986: figs. 5, 6). Independently, Vari (1988: fig. 7) inferred that a then-undescribed species of *Curimata* had a pattern of distribution indicative of a preference for acidic waters, not exclusively in the Rio Negro basin, but also in other Central Amazonian localities.

This biogeographical pattern also has surfaced occasionally in the literature, where it has been indicative of possible taxonomic problems. The first paper to notice something noteworthy in such distributions was Vari and Harold (2001), in the redescription of *Creagrutus maxillaris*. That species is broadly distributed in the Orinoco and the upper Rio Negro. The authors then had only a single lot with few poorly preserved

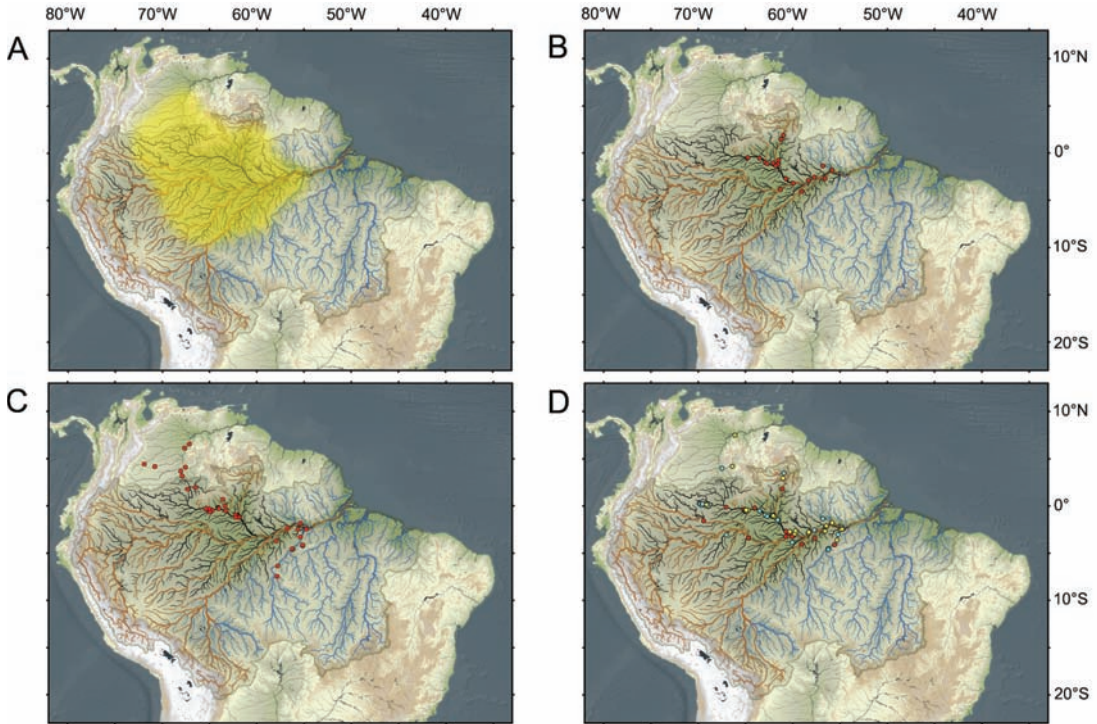


FIG. 22. Central Blackwater Amazon. **A.** Yellow area delimits the distribution pattern. **B.** *Biotococcus* spp. (data from Kullander, 1989). **C.** *Dicrossus* spp. (data from Kullander, 2011). **D.** *Hemigrammus analis* (blue dots; records from MZUSP), *Hemigrammus coeruleus* (red dots; records from MZUSP), *Hemigrammus stictus* (yellow dots; records from MZUSP).

specimens from the Rio Madeira (AMNH 39855) and stated that the presence of *C. maxillaris* in that basin required confirmation by additional material (later reported by Queiroz et al., 2013).

A similar situation happened with *Chalceus macrolepidotus* in Zanata and Toledo-Piza (2004), whose sole sample from the Madeira basin was considered questionable because of its location widely disjunct from that of other known lots of the species. Likewise, Kullander and Ferreira (2006: 377) disregarded two samples of *Cichla temensis* from the Rio Madeira, not including them in the map or material examined of the species because “there is nearly no other *Cichla* material available from the Brazilian portion of the Madeira drainage to permit an understanding of the distribution of *C. temensis* in this region.” Clearly, in all examples the odd disjunct

nature of such distributions influenced the respective authors’ hesitation about their own results. Our recognized pattern, however, shows that such distributions joining the Negro and Madeira are not at all abnormal. This pattern of distribution is recovered, in part, in the analyses of Dagosta and de Pinna (2017).

Examples of lineages with a Central Blackwater Amazon pattern include: *Aequidens mauessanus* (Madeira and Tapajós, see Kullander, 2003), *Acestridium* spp. (Orinoco/Negro, Madeira, and Tapajós), *Astyanax ajuricaba* (Negro, Tapajós, see Marinho and Lima, 2009), *Boulengerella lucius* (Orinoco/Negro, Tapajós, and Trombetas, see Vari, 1995), *Brachyhypopomus hendersoni* (Tefé, Negro, and Essequibo, see Crampton et al., 2016), *Bryconops inpai* (Orinoco/Negro, Tapajós, Madeira, and Trombetas), *Chalceus spilogyros*

(Madeira, Tapajós, and Trombetas, see Zanata and Toledo-Piza, 2004), *C. macrolepidotus* (Orinoco/Negro/Essequibo and Madeira, see Zanata and Toledo-Piza, 2004), *Charax condei* (Negro and Tapajós, see Menezes and Lucena, 2014), *Cichla temensis* (Orinoco/Negro and Madeira, see Kullander and Ferreira, 2006), clade *Creagrutus maxillaris* + *C. cracentis* (Orinoco/Negro, Madeira, and Tapajós, see Vari and Harold, 2001), *Copella nattereri* (Orinoco/Negro, Tapajós, Madeira, Trombetas, and some records in the Amazon above the mouth of Rio Negro, see Marinho and Menezes, 2017), *Cynodon septenarius* (Essequibo/Orinoco/Negro, Uatumã, Tapajós, Trombetas, and Tefé), *Curimata incompta* (Orinoco/Negro, Madeira, see Vari, 1988), *Cyphocharax abramoides* (Negro, Tapajós, and Trombetas, see Vari, 1992b), *C. nigripinnis* (Negro, Tapajós, and Amazonas, see Vari, 1992b), *Elachocharax junki* (Negro and Madeira, see Weitzman and Géry, 1981), *Biotoecus* spp. (Orinoco/Negro, Uatumã, and Trombetas, fig. 22B; see Kullander, 1989), *Dicrossus* spp. (Orinoco/Negro, Madeira, Tapajós, and Trombetas, fig. 22C; see Kullander, 2011), *Gnathocharax* (Orinoco/Negro/Essequibo, Madeira, Tapajós, and Trombetas), *Hemigrammus analis* (Purus, Jutai, Negro, Madeira, Tapajós, and Trombetas, fig. 22D), *H. coeruleus* (Orinoco/Negro/Essequibo, Madeira, Tapajós, and Trombetas, fig. 22D), *H. hanyary* (Orinoco/Negro, Madeira, and Tapajós), *H. stictus* (Orinoco/Negro, Madeira, and Tapajós, fig. 22D), *H. vorderwinkleri* (Orinoco/Negro, Madeira, Tapajós, and Trombetas), *Heterocharax virgulatus* (Orinoco/Negro, Madeira, and Tapajós, see Toledo-Piza, 2000b), *Hoplocharax goethei* (Orinoco/Negro, Madeira, Tapajós, and Trombetas), *Hyphessobrycon sweglesi* (lower Purus, Negro, and Madeira), *Iguanodectes geisleri* (Orinoco/Negro and Madeira), *Jupiaba* gr. *atypindi* (Negro and Madeira), *Leporinus altipinnis* (Orinoco/Negro, Madeira, and Tapajós, see Britski and Birindelli, 2016), *L. aripuanaensis* (Branco, Madeira, and Trombetas), *Leporinus gomesi* (Madeira and Negro), *L. klausewitzi* (Negro and Madeira), *Metynniss hypsauchen*

(Orinoco/Negro/Essequibo, Madeira, Tapajós, and Trombetas, see Ota, 2015), *M. melanogrammus* (Orinoco/Negro, Uatumã, Trombetas, Tapajós, and Sucunduri (Madeira), see Ota et al., 2016), *Moenkhausia hemigrammoides* (Maroni, Suriname, Corentyne, Negro, Madeira, Tapajós, and Trombetas), *M. lata* (Orinoco/Negro, Madeira, and Tapajós, M. Marinho personal commun.), *Nannostomus marilynae* (Orinoco/Negro and Madeira), *Oxyropsis acutirostra* (Orinoco/Negro and Tapajós), *Poecilocharax* spp. (Orinoco/Negro and Madeira), *Pygidianops* spp. (Orinoco/Negro and Madeira), *Rhinobrycon negrensis* (Orinoco/Negro and Madeira), *Satanoperca lilith* (Negro, Uatumã, Trombetas, and Madeira, see Ota, 2013), *Steindachnerina planiventris* (Negro, Japurá, and Madeira, see Vari, 1991), *Symphysodon discus* (Negro, Madeira, and Trombetas, see Bleher et al., 2007; Farias and Hrbek, 2008; Amado et al., 2011), *Taeniacara candidi* (Negro, Tapajós, and Trombetas) and Hypoptopomatinae new genus (Negro, Madeira, and Tapajós, see Delapieve, 2014). Other potential examples are *Moenkhausia diktyota* (Madeira) and *Hemigrammus pretoensis* (Amazonas and Negro), which despite their current separate generic assignments are actually close relatives, perhaps even synonyms (F.C.P.D., personal obs.).

The sharing of so many lineages clearly indicates strong historical connections among the Orinoco/Negro, Madeira and Tapajós. More importantly, all lineages with this distribution pattern are absent in the Brazilian Shield (except for some rare cases in the middle to lower Tapajós, at the periphery of the Shield, see fig. 22C). Despite such strong signal, no independent geomorphological history was identified that could explain this pattern. While Cretaceous deposits from those regions are well known, the Cenozoic sedimentary history is still very poorly known (Soares, 2007). The lack of such critical data does not allow a more precise evaluation of the biogeographically relevant processes and events in the region. It is clear that the lower sectors of those rivers (Negro, Purus, and Madeira), and even the portion of the Rio Amazonas in that

region, underwent course changes during the Pleistocene as demonstrated by paleochannels (Latrubesse and Franzinelli, 2002; Almeida-Filho and Miranda, 2007; Irion et al., 2010; Teixeira and Soares, 2011; Hayakawa and Rossetti, 2015; but see Albert et al., 2018, for reservations about the accuracy of optically stimulated luminescence, or OSL, method for dating sediments of this type and age). However, details about the dynamics and timing of those events are unavailable at present.

One exception is the work of Ruokolainen et al. (2018). The authors present evidence of river captures and avulsions during the late Pleistocene–Holocene in central Amazon, involving rivers Negro, Madeira, Purus and Juruá. Ruokolainen et al. demonstrate that the river network in the region has been anything but stable. According to them, during the past 50,000 years there have been many cases of river avulsions, with consequent changes in the historical connections among major tributary rivers of the central Amazon. The latest major river capture event converted the Japurá from a tributary of the Rio Negro to a tributary of the Amazon, only 1000 years ago. Such broad-scale lability implies that lowland rivers cannot have been efficient biogeographical dispersal barriers to terrestrial biota, and even less so for fishes. In such a scenario, river captures and avulsions in that region may have contributed, at least in part, to the origin of the pattern of distribution discussed here.

As another relevant point, the Central Blackwater Amazon pattern follows remarkably closely the range of blackwater Amazonian rivers recently compiled by Venticinque et al. (2016) (see fig. 20A–D). Those authors demonstrate that there are numerous blackwater rivers scattered throughout the central Amazon, confirming Fink and Fink (1979: 18): “the Rio Negro is the major ‘black’ water river in Amazonia; however, similar conditions have a spotty distribution through much of central Amazonia and many *igarapés* and rios of the terra firma consist of this type of water.” Such a network provides ample opportunity for species

restricted to blackwater to inhabit regions of the upper Amazon, approximately up to the mouth of the Rio Marañón in the Ucayali. A hypothesis that blackwater is the determining factor in the pattern herein described must be tested against a refinement of the species’ locality data. The small-scale mosaic physical distribution of blackwater tributaries in that region makes it very difficult to extract such information from usual museum data. For example, the Rio Madeira, although widely recognized as a whitewater river, is abundantly irrigated by tributaries of all water types (fig. 20). Therefore, the provenance of a sample from the Madeira says little about water type preferences unless associated with very precise locality information. Despite such limitations, it is remarkable that many of the species in the Central Blackwater Amazon pattern that occur in the Rio Madeira or Tapajós are restricted to the lower sectors of those basins, exactly where their blackwater tributaries are most abundant. Again, we highlight the fact that water type is not a random variable, but instead closely related to the geological history of the terrain it drains. Therefore, a distribution pattern determined by water type is also indirectly associated with a historical component and cannot be taken at face value as a purely ecological determinant.

ALLOPATRIC BRANCO-TOCANTINS

There are few examples of Amazonian fish species with disjunct distributions. Five unrelated species display an intriguing pattern of congruent disjunct distributions: *Creagrutus menezesi* (see Vari and Harold, 2001), *Exodon paradoxus*, *Leporacanthicus galaxias*, *Leporinus desmotes* (see Burns et al., 2017), and *Leptorhamdia essequibensis* (see Bockmann, 2003). Those species are found in the Branco and Tocantins basins, with some also having records in the Essequibo and Orinoco. All five species are well known in their taxonomy and geographical distribution, thus reducing the possibility of sampling gaps.

The Branco and Tocantins basins are widely separated, making such allopatric disjunctions all

the more noteworthy, but no geomorphological evidence has been associated with such pattern (the explanations in Eigenmann's Eastern Highlands [cf. also Albert et al., 2011: 50–52] do not account for the specific pattern discussed here, because in the present case the lineages involved are not present in the rest of the shield, i.e., the Tapajós, Xingu, Madeira, Trombetas, Jari, etc.). The geomorphological history of the Rio Branco is related to the proto-Berbice (Lujan and Armbruster, 2011), where the former had courses preferentially flowing from southwest to northeast toward the Caribbean Sea. Erosion of the rocky basement of the Guiana Shield caused the reorganization of the proto-Berbice drainage network and the southward reversal of its main course, making the Rio Branco a tributary of the Rio Negro (Schaefer and Dalrymple, 1996). The geomorphological history of the Rio Tocantins, in turn, is mostly associated with the geological evolution of the Brazilian Shield and with other large rivers such as the Tapajós, Xingu, Paraná-Paraguay, and São Francisco (Lima and Caires, 2011; Lima and Ribeiro, 2011). Of course, before 10 Ma there were no large whitewater rivers or floodplains separating clear-water tributaries of the Guiana and Brazilian shields, which might seem like a possible explanation. However, we again emphasize that the lineages constituting this pattern are not widely present in shield drainages, thus invalidating this broader paleoscenario as a causal factor. Of course, this scenario would hold in case the present disjunct pattern is a relict of a broader pattern that comprised other shield rivers, a hypothesis for which there is no evidence.

The savannahs of the Rio Branco and Essequibo are biogeographically distinct from those of central Brazil, even though they share some fish species (Ferreira et al., 2006). As noted by López-Fernández and Albert (2011), the importance of savannas for the evolution of the modern fish fauna of the Neotropics cannot be overemphasized. In the absence of any geological evidence that might explain the exclusive sharing of species between the Branco and Tocantins, the presence of savannah systems may offer clues for a possible ecological explanation.

ABSENCE PATTERNS

Among the most curious distributional phenomena in the Amazon is the absence of some fish taxa in regions where they were expected to occur on the basis of the distribution of their close relatives and higher groups. Those absences are often associated with some clearly identifiable barriers of physical (e.g., waterfalls) or physico-ecological (e.g., water type) nature.

The most conspicuous Absence pattern is seen in the upper Juruena river, a pattern described in detail in Chapada dos Parecis: Extreme Shield. Another remarkable example is the upper Rio Tocantins. Upriver from the region of Imperatriz (in the Brazilian state of Maranhão) and Itaguatins (in the Brazilian state of Tocantins), the channel of the Rio Tocantins has rapids in sectors that may help explain the absence of various groups otherwise distributed in the entire Amazon that are present in the Araguaia or in lower Tocantins basins. Some examples are: *Acestrorhynchus falcirostris* (see González, 2015), *Apistogramma* spp., *Chaetobranchius* spp., *Hydrolycus tatauaia* (see Toledo-Piza et al., 1999), *Hypophthalmus marginatus*, *Hypselecara* spp., *Mastiglanis asopos*, *Megalechis thoracata* (see Reis, 1997), *Moenkhausia cotinho*, *Mylossoma* spp. (see Mateussi, 2015), *Ochmacanthus* spp. (see Neto, 2014), *Pellona* spp. (see Melo, 2001), *Potamorhaphis* spp. (see Collette, 1982), and *Semaprochilodus brama* (see Castro and Vari, 2004). Other examples of biogeographically isolated Amazonian regions are the mid- and upper Rio Madeira, separated by the rapids in the region of Porto Velho, which block the upriver distribution of, for example, *Arapaima*.

The absence of certain lineages is also influenced by other factors such as tidal effects. Goulding et al. (2003) showed that downstream from the region of Óbidos (in the Brazilian state of Amazonas), the tidal regime starts to influence the circadian rhythm of the Amazon, probably affecting the distribution of fish lineages (Jégu and Keith, 1999; Lima and Ribeiro, 2011), especially those with feeding and breeding periods narrowly associated with drought-flood cycles. Some examples of fishes that

do not occur in the lower Amazon are: *Acestrorhynchus granducolis* (see González, 2015), *Brycon amazonicus* (see Lima, 2017), *Colossoma macropomum* (see Araujo-Lima and Goulding, 1997; Lima and Ribeiro, 2011), *Copella nattereri* (see Marinho and Menezes, 2017), *Piaractus brachypomus* (see Jégu and Keith, 1999), *Potamorhina altamazonica* (see Vari, 1984), and *Serrasalmus elongatus* (see Jégu and Keith, 1999).

As seen above, water type has a major influence on biogeochemical processes and on the distribution and dynamics of aquatic habitats and associated biota (Venticque et al., 2016). Expectedly, it is an important factor in the geographical distribution of Amazonian fish lineages. As widely reported in the literature (see Sioli, 1984; Goulding et al., 2003), Amazonian rivers display enormous differences in pH and concentration of dissolved solutes, according to the type of soil they drain. Wallace (1889) was the first to note that water type influenced the composition of fish assemblages in the Amazon (Dagosta and de Pinna, 2018), an observation repeatedly confirmed in subsequent studies (see Roberts, 1972; Kullander, 1986; Goulding et al., 1988; Vari, 1988; Araujo-Lima and Goulding, 1997; Saint-Paul et al., 2000; Lima and Ribeiro, 2011). The extremely acidic water of the Rio Negro, in particular, may be a deterrent to many fish lineages. Some examples of fishes absent in the Negro, yet present in neighboring basins and widely distributed in the Amazon include: the subfamily Stethaprioninae (see Dagosta and Pinna, 2017; Reis, 1989), the genera *Galeocharax* (see Giovannetti et al., 2017) and *Hypoptopoma* (see Aquino and Schaefer, 2010), and several species such as *Anostomus ternetzi* (see Lima and Ribeiro, 2011), *Brachyplatystoma juruense*, *Cheirocerus goeldii* (see Stewart and Pavlik, 1985), *Copella stigmatemion* (see Marinho and Menezes, 2017), *Curimatella dorsalis* (see Vari, 1992a), *Hemiodus microlepis* (see Langeani, 1996), *Hemisorubim platyrhynchos*, *Jupiaba polylepis*, *Limatulichthys griseus* (see Ohara, 2010), *Megalodoras uranoscopus*, *Oxydoras niger*, *Pimelodus blochii*, *Prochilodus nigri-*

cans (see Castro and Vari, 2004), *Pygocentrus nattereri*, *Semaprochilodus insignis* (see Castro and Vari, 2004), and *Tympanopleura atronasus* (see Walsh et al., 2015).

It is possible to go beyond the mere identification of absence biogeographical patterns. Our earlier biogeographic analyses have demonstrated that some absences are the result of extinctions rather than primitive absences (Dagosta and de Pinna, 2017); moreover, we found that the absence of several lineages in the Rio Negro are autapomorphic for the basin, i.e., their ancestral areas (historically related) have the respective taxa. Therefore, their absence in present-day Rio Negro may be the result of extinctions (discarding cases of pseudo-absences). Recently, Ruokolainen et al. (2018) provided convincing evidence that the Rio Japurá was a tributary to the lower Rio Negro and that a river capture event diverted it to flow into the Amazon (Solimões). The connection between the Rio Japurá and the Rio Negro may have been broken as recently as 1000 years ago. According to these authors, until that time the lower Rio Negro was not a blackwater river, as it presently is, and it carried a much larger load of sediments. Such evidence further corroborates the hypothesis of Dagosta and de Pinna (2017) that the lower Rio Negro basin was not always as hostile to some otherwise ubiquitous Amazonian lineages as it is today and may have had a less extreme type of water earlier in its history. At least for the lower part of its course, the Rio Negro did not have waters as acidic and nutrient poor as today, and did not impede the existence of some lineages that are now absent in the basin.

ENDEMISM

Although a majority of 2716 species of Amazonian fishes examined here occur in more than one subdrainage, there are numerous examples of basin-specific endemics. With the regions defined by Dagosta and de Pinna (2017) as background, at least 831 Amazonian fish species are found in a single drainage or subregion

thereof (fig. 4, appendix 1). An additional 196 species are also basin specific, given a wider definition of basin (e.g., species restricted to the Tapajós but occurring in more than one sub-basin therein). The latter data are also included in appendix 1, with indications of their respective basins of endemism.

CONCLUSIONS

Distribution patterns decay over time as new ones are superimposed (Grande, 1985; Hunn and Upchurch, 2001; Upchurch and Hunn, 2002; Upchurch et al., 2002; Morrone, 2009), making the disentanglement of their history a complex procedure. More studies on Amazonian fishes are necessary, both on phylogeny, paleontology, phylogeography, and molecular dating in order to empirically test the temporal congruences of the distributional patterns described here. New data on geological history are needed to better understand the effect of riverine configurations in the biogeography of fishes in the basin. Our findings support the conclusion that the biogeographical history of a river is associated less with its size than with its stability through geological time. The mosaic of patterns shown herein demonstrates that the river network in the Amazon has been anything but stable, and that this instability has been a major factor in fish distributions. Different overlapping geomorphological processes, at different times, have left diffuse marks on the composition and distribution of the fish fauna and this process continues to the present. The recent work by Stokes et al. (2018) directly demonstrates the intense dynamism of the region, showing that the Amazon river is capturing headwaters of the Río Orinoco, another step in the continuing reorganization of South American river systems.

Freshwater fishes are physically restricted to hydrographical basins, but in the Amazon basin their distributions often transcend modern hydrographical limits. This is a result of a complex and reticulated history of drainages, a view

that has been corroborated by several authors (see Lima and Ribeiro, 2011; Dagosta, 2016; Dagosta and Pinna, 2017). This fact in itself does not disqualify basins as historical agents. Rather, rivers are historically bound areas, even though they are far more complex than hydrographically limited units. Data presented in this paper demonstrate that each hydrographic drainage in the Amazon basin participates simultaneously in various biogeographical patterns and that no single basin is a historically cohesive unit. Likewise, the entire Amazon basin itself does not form a single historical unit. All such conclusions corroborate the hypothesis that hydrographical basins should not be considered a priori as historical units. They are demonstrably reticulate areas that received portions of their biotas at different ages, under the influence of disjunct events. Thus, past geomorphological processes are more informative for understanding the distribution of the Amazonian fishes than present-day basin divides.

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APPENDIX 1

TAXONOMIC LIST OF AMAZONIAN FISH SPECIES

Definition of Amazonian regions follows Dagosta and de Pinna (2017). List updated by the end of 2018.
 Symbols: *species exclusive to the Amazon basin; ** species poorly known or with vague distribution records.

| Taxon | Species | Occurrence |
|------------------------------------|-----------|---|
| Carcharhiniformes | 1 | |
| Carcharhinidae | 1 | |
| <i>Carcharhinus leucas</i> | | Lower Xingu, Amazonas main channel, lower Orinoco |
| Pristiformes | 2 | |
| Pristidae | 2 | |
| <i>Pristis pectinata</i> | | Amazonas Estuary, Essequibo, lower Orinoco, Cauca-Magdalena-Sinu |
| <i>Pristis perotteti</i> | | Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Maracaibo, Cauca-Magdalena-Sinu, Atrato |
| Myliobatiformes | 27 | |
| Potamotrygonidae | 27 | |
| <i>Heliotrygon gomesi</i> * | | Endemic – Amazonas main channel |
| <i>Heliotrygon rosai</i> * | | Purus, Amazonas main channel, Amazonas Estuary |
| <i>Paratrygon aiereba</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Teles Pires, Tapajós, Guaporé, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Plesiostrygon iwamae</i> * | | Middle-lower Madeira, Napo-Ambiacu, Amazonas main channel |
| <i>Plesiostrygon nana</i> * | | Ucayali, Amazonas main channel |
| <i>Potamotrygon adamastor</i> * | | Endemic – Branco |
| <i>Potamotrygon albimaculata</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Potamotrygon amandae</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Potamotrygon amazona</i> * | | Juruá, Jutai, Negro |
| <i>Potamotrygon constellata</i> ** | | Amazonas main channel |
| <i>Potamotrygon falkneri</i> | | Guaporé, Beni-Madre de Dios, Madeira Shield Tributaries, Trombetas, Paraná-Paraguay |
| <i>Potamotrygon garmani</i> * | | Upper Tocantins, Teles Pires |
| <i>Potamotrygon henlei</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Potamotrygon humerosa</i> | | Tapajós, middle-lower Madeira, Jutai, Negro, Amazonas main channel, Capim |
| <i>Potamotrygon jabuti</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós, Jamaxim) |
| <i>Potamotrygon leopoldi</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Potamotrygon limai</i> * | | Endemic – Middle-lower Madeira |
| <i>Potamotrygon motoro</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Potamotrygon ocellata</i> ** | | |

| Taxon | Species | Occurrence |
|-----------------------------------|-----------|--|
| <i>Potamotrygon orbignyi</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Potamotrygon pantanensis</i> | | Guaporé, Paraná-Paraguay |
| <i>Potamotrygon rex</i> * | | Endemic – upper Tocantins |
| <i>Potamotrygon schroederi</i> | | Japurá, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Potamotrygon scobina</i> * | | Lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Urubu-Uatumã, Amazonas main channel, Amazonas Estuary |
| <i>Potamotrygon tatiánae</i> * | | Beni-Madre de Dios, Madeira Shield Tributaries |
| <i>Potamotrygon tigrina</i> * | | Endemic – Amazonas main channel |
| <i>Potamotrygon wallacei</i> * | | Endemic – Negro |
| Osteoglossiformes | 5 | |
| Arapaimidae | 3 | |
| <i>Arapaima agassizii</i> ** | | |
| <i>Arapaima gigas</i> | | Araguaia, lower Tocantins, lower Xingu, middle-lower Madeira, Purus, Juruá, Putumayo, Japurá, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Essequibo |
| <i>Arapaima leptosoma</i> * | | Amazonas main channel |
| Osteoglossidae | 2 | |
| <i>Osteoglossum bicirrhosum</i> | | Araguaia, lower Tocantins, lower Xingu, Teles Pires, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Osteoglossum ferreirai</i> | | Branco, upper Orinoco |
| Anguiliformes | 1 | |
| Ophichthidae | 1 | |
| <i>Stictorhinus potamius</i> | | Lower Tocantins, lower Orinoco |
| Clupeiformes | 18 | |
| Clupeidae | 1 | |
| <i>Rhinosardinia amazonica</i> | | Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| Engraulidae | 12 | |
| <i>Amazonsprattus scintilla</i> * | | Lower Xingu, Teles Pires, Tapajós, Madeira Shield Tributaries, Purus, Negro, Branco, Urubu-Uatumã |
| <i>Anchovia surinamensis</i> | | Lower Tocantins, upper Xingu, lower Xingu, Teles Pires, middle-lower Madeira, Branco, Parnaíba, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Anchoviella alleni</i> * | | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Coari-Urucu, Ucayali |
| <i>Anchoviella carrikeri</i> | | Araguaia, upper Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Marañon-Nanay, Negro, Branco, Amazonas main channel, Capim |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Anchoviella guianensis</i> | | Araguaia, Anapu, Teles Pires, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Parnaíba, Capim, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Anchoviella hernanni</i> * | | Beni-Madre de Dios, Ucayali, Marañon-Nanay |
| <i>Anchoviella jamesi</i> | | Araguaia, lower Tocantins, Teles Pires, Tapajós, Jamanxim, middle-lower Madeira, Tefé, Negro, Branco, Trombetas, Amazonas main channel, Capim, Essequibo, lower Orinoco, upper Orinoco |
| <i>Anchoviella juruasanga</i> * | | Lower Tocantins, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Negro, Trombetas, Jari, Amazonas main channel |
| <i>Anchoviella nattereri</i> ** | | |
| <i>Jurengraulis juruensis</i> | | Mamoré, middle-lower Madeira, Juruá, Putumayo, Branco, Trombetas, Amazonas main channel, Essequibo |
| <i>Lycengraulis batesii</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Japurá, Branco, Trombetas, Amazonas main channel, Parnaíba, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco, upper Orinoco, Apure |
| <i>Pterengraulis atherinoides</i> * | | Lower Tocantins, lower Xingu, Trombetas, Parnaíba, Itapicuru-Mearim, Corentyne-Demerara, lower Orinoco, upper Orinoco, Apure |
| Pristigasteridae | 5 | |
| <i>Ilisha amazonica</i> * | | Upper Xingu, Iri, lower Xingu, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Pellona castelnaeana</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco |
| <i>Pellona flavipinnis</i> | | Lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Tefé, Putumayo, Japurá, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Parnaíba, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco, upper Orinoco, Paraná-Paraguay |
| <i>Pristigaster cayana</i> * | | Upper Tocantins, Araguaia, lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Pristigaster whiteheadi</i> | | Middle-lower Madeira, Purus, Juruá, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Araguari-Macari-Amapá |
| Characiformes | 1063 | |
| Acestrorhynchidae | 10 | |
| <i>Acestrorhynchus abbreviatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Javari, Ucayali, Napo-Ambyiacu, Amazonas main channel, Amazonas Estuary, Araguari-Macari-Amapá, Paraná-Paraguay |
| <i>Acestrorhynchus falcatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Acestrorhynchus falcirostris</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Acestrorhynchus grandoculis</i> | | Teles Pires, middle-lower Madeira, Madeira Shield Tributaries, Napo-Ambyiacu, Putumayo, Negro, Branco, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Acestrorhynchus heterolepis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Itapicuru-Mearim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Acestrorhynchus isalineae</i> * | | Middle-lower Madeira, Madeira Shield Tributaries |
| <i>Acestrorhynchus maculipinna</i> * | | Negro, Amazonas main channel |
| <i>Acestrorhynchus microlepis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Tefé, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Acestrorhynchus minimus</i> | | Upper Xingu, Teles Pires, Tapajós, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Acestrorhynchus nasutus</i> | | Teles Pires, Tapajós, middle-lower Madeira, Negro, Branco, Amazonas main channel, Capim, Essequibo, upper Orinoco |
| Alestidae | 5 | |
| <i>Chalceus epakros</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Chalceus erythrurus</i> * | | Middle-lower Madeira, Purus, Coari-Urucu, Juruá, Ucayali, Putumayo, Japurá, Negro, Amazonas main channel |
| <i>Chalceus guaporensis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel |
| <i>Chalceus macrolepidotus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Negro, Urubu-Uatumã, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Chalceus spilogyros</i> * | | Tapajós, middle-lower Madeira, Trombetas |
| Anostomidae | 91 | |
| <i>Abramites hypselonotus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Anostomoides laticeps</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco |
| <i>Anostomoides passionis</i> * | | Lower Xingu, Teles Pires |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Anostomus anostomus</i> * | | Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Anostomus longus</i> ** | | Marañon-Nanay |
| <i>Anostomus ternetzi</i> * | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Madeira Shield Tributaries, Japurá, Branco, Urubu-Uatumã, Trombetas, Capim, Maroni-Approuague, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Gnathodolus bidens</i> | | Lower Xingu, Teles Pires, Urubu-Uatumã, lower Orinoco, upper Orinoco |
| <i>Hypomasticus julii</i> * | | Araguaia, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Jamanxim, Trombetas, Jari |
| <i>Hypomasticus lineomaculatus</i> * | | Paru, Jari |
| <i>Hypomasticus megalepis</i> | | Upper Tocantins, lower Tocantins, upper Xingu, Iriri, lower Xingu, Branco, Jari, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Hypomasticus multimaculatus</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Jari, Araguari-Macari-Amapá |
| <i>Hypomasticus pachycheilus</i> | | Upper Tocantins, lower Tocantins, Jamanxim, Madeira Shield Tributaries, Urubu-Uatumã, Trombetas, Araguari-Macari-Amapá |
| <i>Hypomasticus torrenticola</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Laemolyta fasciata</i> ** | | Endemic – Mamoré |
| <i>Laemolyta fernandezi</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, lower Orinoco, upper Orinoco |
| <i>Laemolyta garmani</i> | | Araguaia, Guaporé, Madeira Shield Tributaries, Tefé, Jutáí, Javari, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel, Capim |
| <i>Laemolyta proxima</i> | | Lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Napo-Ambyiacu, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Corentyne-Demerara, Essequibo |
| <i>Laemolyta taeniata</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Leporellus vittatus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Branco, Jari, Essequibo, lower Orinoco, upper Orinoco, Apure, Cauca-Magdalena-Sinu, Paraná-Paraguay |
| <i>Leporinus acutidens</i> ** | | |
| <i>Leporinus affinis</i> | | Araguaia, lower Tocantins, lower Xingu, Japurá, Capim, lower Orinoco |
| <i>Leporinus agassizii</i> | | Mamoré, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, Upper Orinoco |
| <i>Leporinus altipinnis</i> | | Tapajós, middle-lower Madeira, Negro, Amazonas main channel, upper Orinoco |
| <i>Leporinus amazonicus</i> * | | Mamoré, Guaporé, middle-lower Madeira, Juruá, Japurá, Amazonas main channel |
| <i>Leporinus arimaspi</i> | | Branco, lower Orinoco, upper Orinoco |
| <i>Leporinus aripuanaensis</i> * | | Madeira Shield Tributaries, Branco, Urubu-Uatumã, Trombetas |
| <i>Leporinus bimaculatus</i> * | | Upper Tocantins, Amazonas main channel |
| <i>Leporinus bistriatus</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |

| Taxon | Species | Occurrence |
|------------------------------------|---------|---|
| <i>Leporinus bleheri</i> * | | Guaporé, Negro, Amazonas Estuary |
| <i>Leporinus britskii</i> * | | Teles Pires, Jamanxim, Jari |
| <i>Leporinus brunneus</i> | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Madeira Shield Tributaries, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, lower Orinoco, upper Orinoco |
| <i>Leporinus cylindrifformis</i> * | | Lower Xingu, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel |
| <i>Leporinus desmotes</i> | | Upper Tocantins, lower Tocantins, Branco, Essequibo |
| <i>Leporinus enyae</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Leporinus fasciatus</i> | | Upper Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Ucayali, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Leporinus frederici</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Leporinus geminis</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Leporinus gomesi</i> * | | Madeira Shield Tributaries, Negro |
| <i>Leporinus granti</i> | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Madeira Shield Tributaries, Branco, Trombetas, Oiapoque, Maroni-Approuague, Corentyne-Demerara, Essequibo |
| <i>Leporinus guttatus</i> * | | Endemic – Iriri |
| <i>Leporinus jamesi</i> * | | Mamoré, middle-lower Madeira, Purus, Ucayali, Amazonas main channel |
| <i>Leporinus jatuncochi</i> * | | Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Marañon-Nanay, Napo-Ambyiacu, Urubu-Uatumã, Jari, Amazonas main channel |
| <i>Leporinus klausewitzii</i> * | | Middle-lower Madeira, Japurá, Negro, Branco, Urubu-Uatumã, Amazonas main channel |
| <i>Leporinus maculatus</i> | | Lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Branco, Trombetas, Jari, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Leporinus melanostictus</i> | | Jari, Oiapoque, Maroni-Approuague |
| <i>Leporinus microphysus</i> * | | Teles Pires, Jamanxim, Jari |
| <i>Leporinus moralesi</i> | | Putumayo, Japurá, Amazonas main channel, lower Orinoco |
| <i>Leporinus multifasciatus</i> ** | | |
| <i>Leporinus nattereri</i> | | Araguaia, middle-lower Madeira, Putumayo, Trombetas, Amazonas main channel, upper Orinoco, Apure |
| <i>Leporinus niceforoi</i> | | Japurá, upper Orinoco |
| <i>Leporinus nigrotaeniatus</i> | | Negro, Branco, Corentyne-Demerara, Essequibo |
| <i>Leporinus octomaculatus</i> | | Teles Pires, Juruena, Tapajós, Paraná-Paraguay |
| <i>Leporinus ortomaculatus</i> | | Upper Tocantins, Araguaia, Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Leporinus pachyurus</i> ** | | |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Leporinus parae</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco |
| <i>Leporinus parvulus</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Leporinus pearsoni</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Madeira Shield Tributaries, Purus, Juruá, Ucayali |
| <i>Leporinus pellegrinii</i> | | Upper Xingu, Branco, Trombetas, Maroni-Approuague, Essequibo |
| <i>Leporinus pitingai</i> ** | | Urubu-Uatumã |
| <i>Leporinus reticulatus</i> * | | Endemic – Juruena |
| <i>Leporinus santosi</i> * | | Endemic – lower Tocantins |
| <i>Leporinus sexstriatus</i> * | | Endemic – Juruena |
| <i>Leporinus steyermarki</i> | | Putumayo, lower Orinoco, upper Orinoco |
| <i>Leporinus striatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Juruá, Marañon-Nanay, Napo-Ambyiacu, Putumayo, upper Orinoco, Apure, Cauca-Magdalena-Sinu, Atrato, Paraná-Paraguay |
| <i>Leporinus subniger</i> * | | Japurá, Amazonas main channel |
| <i>Leporinus taeniofasciatus</i> * | | Endemic – upper Tocantins |
| <i>Leporinus tigrinus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Paraná-Paraguay |
| <i>Leporinus trimaculatus</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Leporinus tristriatus</i> * | | Upper Tocantins, upper Xingu, Teles Pires, Juruena, Jamanxim |
| <i>Leporinus unitaeniatus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Tapajós |
| <i>Leporinus vanzoi</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena, Tapajós) |
| <i>Leporinus venerei</i> * | | Endemic – Araguaia |
| <i>Leporinus villasboasorum</i> * | | Upper Xingu, Iriiri, lower Xingu, Teles Pires, Juruena |
| <i>Leporinus y-ophorus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Purus, Juruá, lower Orinoco, upper Orinoco |
| <i>Megaleporinus trifasciatus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Ucayali, Putumayo, Japurá, Negro, Trombetas, Amazonas main channel |
| <i>Petulanos intermedius</i> * | | Upper Xingu, lower Xingu, Teles Pires, Jamanxim, Madeira Shield Tributaries |
| <i>Petulanos plicatus</i> | | Mamoré, Guaporé, Branco, Trombetas, Coarentyne-Demerara, Essequibo |
| <i>Pseudanos gracilis</i> | | Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Pseudanos trimaculatus</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Juruá, Napo-Ambyiacu, Putumayo, Negro, Branco, Urubu-Uatumã, Jari, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Pseudanos varii</i> | | Negro, upper Orinoco |
| <i>Pseudanos winterbottomi</i> | | Juruena, Tapajós, Jamanxim, lower Orinoco, upper Orinoco |
| <i>Rhytiodus argenteofuscus</i> * | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Putumayo, Branco, Trombetas, Amazonas main channel |
| <i>Rhytiodus elongatus</i> ** | | Purus |
| <i>Rhytiodus lauzannei</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) |

| Taxon | Species | Occurrence |
|---|---------|--|
| <i>Rhytiodus microlepis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Amazonas main channel |
| <i>Sartor elongatus</i> * | | Teles Pires, Juruena, Trombetas |
| <i>Sartor respectus</i> * | | Endemic – upper Xingu |
| <i>Sartor tucuriense</i> * | | Endemic – lower Tocantins |
| <i>Schizodon fasciatus</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Javari, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Jari, Amazonas main channel, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, Maracaibo |
| <i>Schizodon vittatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Essequibo |
| <i>Synaptolaemus latofasciatus</i> | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Madeira Shield Tributaries, Branco, Urubu-Uatumã, Trombetas, Essequibo, lower Orinoco, upper Orinoco, Apure |
| Characidae | 635 | |
| <i>Acestrocephalus acutus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires |
| <i>Acestrocephalus boehlkei</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo |
| <i>Acestrocephalus maculosus</i> * | | Endemic – upper Tocantins |
| <i>Acestrocephalus nigrifasciatus</i> * | | Iriri, Teles Pires, Juruena, Jamanxim |
| <i>Acestrocephalus pallidus</i> * | | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries |
| <i>Acestrocephalus sardina</i> | | Madeira Shield Tributaries, Jutá, Negro, Branco, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Acestrocephalus stigmatus</i> * | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Teles Pires |
| <i>Acrobrycon ipanquianus</i> | | UcayaliParaná-Paraguay |
| <i>Acrobrycon starnesi</i> * | | Endemic – Guaporé |
| <i>Agoniatés anchovia</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Agoniatés halecinus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Capim, Araguari-Macari-Amapá, Essequibo, upper Orinoco |
| <i>Amazonspinther dalmata</i> * | | Middle-lower Madeira, Purus |
| <i>Aphyocharacidium bolivianum</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Aphyocharacidium melandetum</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Aphyocharax agassizii</i> ** | | Amazonas main channel |
| <i>Aphyocharax anisitsi</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Aphyocharax avary</i> ** | | Middle-lower Madeira |
| <i>Aphyocharax erythrurus</i> | | Branco, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Maracaibo |
| <i>Aphyocharax nattereri</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Amazonas main channel, Paraná-Paraguay |
| <i>Aphyocharax pusillus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Coari-Urucu, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|------------------------------------|---------|---|
| <i>Aphyocharax rathbuni</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Aphyodite apiaka</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Aphyodite grammica</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Branco, Amazonas main channel, Essequibo |
| <i>Aphyodite tupebas</i> * | | Tefé, Amazonas main channel |
| <i>Astyanacinus boliviensis</i> * | | Mamoré, Beni-Madre de Dios |
| <i>Astyanacinus gandhiae</i> * | | Ucayali, Marañon-Nanay |
| <i>Astyanacinus multidentis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Ucayali |
| <i>Astyanacinus villwocki</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Astyanax abramis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Putumayo, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Astyanax ajuricaba</i> * | | Araguaia, Tapajós, Negro, Amazonas main channel |
| <i>Astyanax anterior</i> * | | Upper Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Astyanax argyrimarginatus</i> * | | Araguaia, upper Xingu |
| <i>Astyanax bimaculatus</i> | | Upper Tocantins, Araguaia, upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Branco, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Cauca-Magdalena-Sinu, Atrato |
| <i>Astyanax bourgeti</i> * | | Endemic – Amazonas main channel |
| <i>Astyanax chaparae</i> * | | Endemic – Mamoré |
| <i>Astyanax clavitaeniatus</i> * | | Endemic – Branco |
| <i>Astyanax courensis</i> * | | Endemic – upper Tocantins |
| <i>Astyanax elachylepis</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires |
| <i>Astyanax fasciatus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Ucayali, Putumayo, Branco, Parnaíba, Essequibo, lower Orinoco, upper Orinoco, Cauca-Magdalena-Sinu, Atrato, Paraná-Paraguay |
| <i>Astyanax goyacensis</i> | | Araguaia, Paraná-Paraguay |
| <i>Astyanax goyanensis</i> * | | Endemic – upper Tocantins |
| <i>Astyanax gracilior</i> ** | | Amazonas main channel |
| <i>Astyanax guaporensis</i> * | | Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries |
| <i>Astyanax guianensis</i> | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Branco, Jari, Capim, Essequibo |
| <i>Astyanax integer</i> | | Napo-Ambyiacu, Japurá, lower Orinoco, upper Orinoco, Apure, Maracaibo |
| <i>Astyanax joaovitori</i> * | | Endemic – Araguaia |
| <i>Astyanax kullanderi</i> * | | Endemic – Araguaia |
| <i>Astyanax lineatus</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Astyanax longior</i> * | | Endemic – Marañon |
| <i>Astyanax maculisquamis</i> * | | Endemic – Guaporé |
| <i>Astyanax maximus</i> | | Beni-Madre de Dios, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, upper Orinoco |

| Taxon | Species | Occurrence |
|----------------------------------|---------|--|
| <i>Astyanax multidentis</i> * | | Araguaia, upper Xingu, lower Xingu, Teles Pires, Jamanxim, Amazonas main channel |
| <i>Astyanax novae</i> * | | Upper Tocantins, Araguaia, upper Xingu |
| <i>Astyanax poetzschkei</i> ** | | |
| <i>Astyanax rupununi</i> | | Branco, Essequibo |
| <i>Astyanax saltor</i> * | | Iriri, Teles Pires |
| <i>Astyanax siapae</i> | | Negro, upper Orinoco, Apure |
| <i>Astyanax symmetricus</i> * | | Endemic – Amazonas main channel |
| <i>Astyanax unitaeniatus</i> * | | Endemic – upper Tocantins |
| <i>Astyanax utiariti</i> * | | Endemic – Juruena |
| <i>Astyanax validus</i> | | Japurá, Oiapoque, Maroni-Approuague |
| <i>Astyanax xavante</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Atopomesus pachyodus</i> * | | Endemic – Negro |
| <i>Attonitus bounites</i> * | | Endemic – Beni-Madre de Dios |
| <i>Attonitus ephimeros</i> * | | Endemic – Ucayali |
| <i>Attonitus irisae</i> * | | Endemic – Ucayali |
| <i>Axelrodia lindeae</i> * | | Teles Pires, middle-lower Madeira, Negro, Branco, Amazonas main channel |
| <i>Axelrodia stigmatias</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Amazonas main channel |
| <i>Bario steindachneri</i> | | Tapajós, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Putumayo, Amazonas main channel, Capim |
| <i>Boehlkea fredcochui</i> * | | Japurá, Amazonas main channel |
| <i>Boehlkea orcesi</i> * | | Endemic – Marañon |
| <i>Boehlkea weitzmani</i> * | | Endemic – Japurá |
| <i>Brachyhalcinus copei</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Trombetas, Amazonas main channel |
| <i>Brachyhalcinus nummus</i> * | | Mamoré, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Brachyhalcinus parnaíbae</i> | | Lower Tocantins, Parnaíba |
| <i>Brachyhalcinus reisi</i> * | | Endemic – Iriri |
| <i>Brittanichthys axelrodi</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Brittanichthys myersi</i> | | Negro, Branco, Corentyne-Demerara, Essequibo |
| <i>Brycon amazonicus</i> | | Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Brycon atrocaudatus</i> ** | | Endemic – Marañon |
| <i>Brycon coxeyi</i> * | | Endemic – Marañon |
| <i>Brycon falcatus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Guaporé, Madeira Shield Tributaries, Negro, Branco, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Brycon gouldingi</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Brycon hilarii</i> | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Paraná-Paraguay |
| <i>Brycon melanopterus</i> * | | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Brycon nattereri</i> | | Upper Tocantins, Parana-Paraguay, São Francisco |
| <i>Brycon pesu</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Guaporé, Madeira Shield Tributaries, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Brycon polylepis</i> | | Upper Tocantins, lower Tocantins, Beni-Madre de Dios, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel, upper Orinoco, Maracaibo |
| <i>Brycon stolzmanni</i> * | | Endemic – Marañon |
| <i>Bryconacidnus ellisi</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Ucayali, Napo-Ambyiacu |
| <i>Bryconacidnus hemigrammus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Bryconacidnus paipayensis</i> * | | Endemic – Marañon |
| <i>Bryconadenos tanaothoros</i> * | | Upper Xingu, Teles Pires, Juruena |
| <i>Bryconadenos weitzmani</i> * | | Endemic – Iriri |
| <i>Bryconamericus alfredae</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Bryconamericus bolivianus</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Bryconamericus carlosi</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Bryconamericus deuterodonoides</i> | | Japurá, lower Orinoco, upper Orinoco, Apure, Maracaibo |
| <i>Bryconamericus diaphanus</i> * | | Beni-Madre de Dios, Marañon-Nanay |
| <i>Bryconamericus galvisi</i> * | | Putumayo, Japurá |
| <i>Bryconamericus grosvenori</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Bryconamericus hypheoson</i> | | Branco, Essequibo |
| <i>Bryconamericus macrophthalmus</i> | | Negro, upper Orinoco |
| <i>Bryconamericus novae</i> * | | Endemic – upper Tocantins |
| <i>Bryconamericus orinocoense</i> | | Teles Pires, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, upper Orinoco |
| <i>Bryconamericus oroensis</i> * | | Endemic – Marañon |
| <i>Bryconamericus orteguasae</i> * | | Beni-Madre de Dios, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Bryconamericus osgoodi</i> * | | Endemic – Marañon |
| <i>Bryconamericus pachacuti</i> * | | Beni-Madre de Dios, middle-lower Madeira, Ucayali, Japurá |
| <i>Bryconamericus pectinatus</i> * | | Beni-Madre de Dios, Madeira Shield Tributaries, Ucayali |
| <i>Bryconamericus peruanus</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Bryconamericus phoenicopterus</i> * | | Endemic – Napo-Ambyiacu |
| <i>Bryconamericus pinnavittatus</i> * | | Endemic – Teles Pires |
| <i>Bryconamericus zamorensis</i> * | | Endemic – Marañon |
| <i>Bryconella pallidifrons</i> * | | Middle-lower Madeira, Purus, Juruá, Putumayo, Amazonas main channel |
| <i>Bryconexodon juruena</i> * | | Endemic – Juruena |
| <i>Bryconexodon trombetasi</i> * | | Teles Pires, Trombetas |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|--|
| <i>Bryconops affinis</i> | | Upper Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, Putumayo, Japurá, Branco, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Bryconops alburnoides</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Bryconops caudomaculatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Guaporé, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Bryconops disruptus</i> * | | Endemic – Negro |
| <i>Bryconops durbinae</i> ** | | |
| <i>Bryconops giacopinii</i> | | Araguaia, upper Xingu, lower Xingu, Teles Pires, middle-lower Madeira, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Bryconops gracilis</i> * | | Araguaia, upper Xingu, Trombetas |
| <i>Bryconops humeralis</i> | | Negro, upper Orinoco |
| <i>Bryconops inpai</i> | | Middle-lower Madeira, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Bryconops melanurus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, Putumayo, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Bryconops munduruku</i> * | | Endemic – Tapajós |
| <i>Bryconops piracolina</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Bryconops tocantinensis</i> * | | Endemic – upper Tocantins |
| <i>Bryconops transitorius</i> ** | | |
| <i>Caiaopobrycon tucurui</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Ceratobranchia binghami</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Ceratobranchia delotaenia</i> * | | Endemic – Beni-Madre de Dios |
| <i>Ceratobranchia elatior</i> * | | Endemic – Marañon |
| <i>Ceratobranchia obtusirostris</i> * | | Ucayali, Japurá |
| <i>Charax caudimaculatus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Charax condei</i> * | | Tapajós, Negro, Amazonas main channel |
| <i>Charax delimai</i> * | | Endemic – Negro |
| <i>Charax gibbosus</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Charax hemigrammus</i> | | Negro, Amazonas main channel, Essequibo |
| <i>Charax leticiae</i> | | Upper Tocantins, Araguaia, lower Tocantins, Paraná-Paraguay |
| <i>Charax macrolepis</i> * | | Restricted to Madeira basin (Guaporé, middle-lower Madeira) |
| <i>Charax michaeli</i> * | | Tefé, Negro, Branco, Jari, Amazonas main channel |
| <i>Charax niger</i> | | Upper Tocantins, Negro, Araguari-Macari-Amapá |
| <i>Charax pauciradiatus</i> | | Amazonas main channel, Capim |

| Taxon | Species | Occurrence |
|---|---------|---|
| <i>Charax rupununi</i> | | Trombetas, Essequibo |
| <i>Charax tectifer</i> * | | Ucayali, Napo-Ambyiacu, Amazonas main channel |
| <i>Cheirodon luelingi</i> * | | Endemic – Ucayali |
| <i>Cheirodon ortegai</i> * | | Endemic – Ucayali |
| <i>Cheirodon stenodon</i> | | Mamoré, Beni-Madre de Dios, Paraná-Paraguay |
| “ <i>Cheirodon</i> ” <i>troemmeri</i> * | | Restricted to Madeira basin (Mamoré, middle-lower Madeira) |
| <i>Chrysobrycon eliasi</i> * | | Endemic – Beni-Madre de Dios |
| <i>Chrysobrycon hesperus</i> * | | Middle-lower Madeira, Napo-Ambyiacu |
| <i>Chrysobrycon mojicae</i> * | | Endemic – Amazonas main channel |
| <i>Chrysobrycon myersi</i> * | | Endemic – Ucayali |
| <i>Chrysobrycon yoliae</i> * | | Endemic – Ucayali |
| <i>Clupeacharax anchoveoides</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Paraná-Paraguay |
| <i>Creagrutus amoenus</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Creagrutus anary</i> * | | Middle-lower Madeira, Madeira Shield Tributaries |
| <i>Creagrutus atrisignum</i> * | | Endemic – upper Tocantins |
| <i>Creagrutus barrigai</i> * | | Purus, Juruá, Javari, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel |
| <i>Creagrutus beni</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Japurá |
| <i>Creagrutus britskii</i> * | | Upper Tocantins, lower Tocantins, Iriri |
| <i>Creagrutus cerritulus</i> * | | Endemic – Marañon |
| <i>Creagrutus changae</i> * | | Purus, Juruá, Ucayali |
| <i>Creagrutus cochui</i> * | | Ucayali, Amazonas main channel |
| <i>Creagrutus cracentis</i> * | | Lower Xingu, Tapajós |
| <i>Creagrutus ephippiatus</i> | | Negro, lower Orinoco |
| <i>Creagrutus figueiredoi</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Creagrutus flavescens</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Creagrutus gephyrus</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Creagrutus gracilis</i> * | | Endemic – Marañon |
| <i>Creagrutus holmi</i> * | | Endemic – Marañon |
| <i>Creagrutus ignotus</i> | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Jamanxim, Paraná-Paraguay |
| <i>Creagrutus kunturus</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Creagrutus manu</i> * | | Endemic – Beni-Madre de Dios |
| <i>Creagrutus maxillaris</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Creagrutus melanzonus</i> | | Branco, Maroni-Approuague, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Creagrutus menezesi</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Negro, Branco |
| <i>Creagrutus molinus</i> * | | Endemic – Araguaia |
| <i>Creagrutus mucipu</i> * | | Upper Tocantins, upper Xingu |
| <i>Creagrutus muelleri</i> * | | Endemic – Marañon |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Creagrutus nigrotaeniatus</i> * | | Restricted to Tapajós basin (Juruena, Tapajós, Jamanxim) |
| <i>Creagrutus occidaneus</i> * | | Beni-Madre de Dios, Purus |
| <i>Creagrutus ortegai</i> * | | Ucayali, Marañon-Nanay |
| <i>Creagrutus ouranonastes</i> * | | Endemic – Ucayali |
| <i>Creagrutus pearsoni</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Creagrutus peruanus</i> * | | Endemic – Ucayali |
| <i>Creagrutus petilus</i> * | | Middle-lower Madeira, Madeira Shield Tributaries |
| <i>Creagrutus phasma</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Creagrutus pila</i> * | | Endemic – Ucayali |
| <i>Creagrutus runa</i> | | Negro, upper Orinoco |
| <i>Creagrutus saxatilis</i> * | | Endemic – upper Tocantins |
| <i>Creagrutus seductus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Creagrutus tuyuka</i> * | | Endemic – Negro |
| <i>Creagrutus unculus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Creagrutus vexillapinnus</i> | | Negro, upper Orinoco |
| <i>Creagrutus yanatili</i> * | | Endemic – Ucayali |
| <i>Creagrutus yudja</i> * | | Iriri, lower Xingu |
| <i>Creagrutus zephyrus</i> | | Negro, upper Orinoco |
| <i>Ctenobrycon hauxwellianus</i> | | Upper Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Branco, Amazonas main channel, Parnaíba |
| <i>Ctenobrycon multiradiatus</i> ** | | Tefé |
| <i>Ctenobrycon spilurus</i> | | Upper Tocantins, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Ctenocheirodon pristis</i> * | | Endemic – upper Tocantins |
| <i>Cyanogaster noctivaga</i> * | | Endemic – Negro |
| <i>Cynopotamus amazonum</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Branco, Amazonas main channel |
| <i>Cynopotamus essequibensis</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Cynopotamus gouldingi</i> * | | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries |
| <i>Cynopotamus juruena</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Cynopotamus tocantinensis</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Cynopotamus xinguano</i> * | | Endemic – upper Xingu |
| <i>Dectobrycon armeniacus</i> ** | | |
| <i>Engraulisoma taeniatum</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Napo-Ambyiacu, Putumayo, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Erythrocharax altipinnis</i> * | | Endemic – Iriri |
| <i>Exodon paradoxus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Branco, Essequibo, lower Orinoco, upper Orinoco |

| Taxon | Species | Occurrence |
|------------------------------------|---------|---|
| <i>Galeocharax goeldii</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Galeocharax gulo</i> | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires, Juruena, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Gephyrocharax major</i> * | | Mamoré, Beni-Madre de Dios, Juruá, Ucayali, Marañon-Nanay |
| <i>Gnathocharax steindachneri</i> | | Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Grundulus bogotensis</i> | | Putumayo, Cauca-Magdalena-Sinu |
| <i>Grundulus cochae</i> * | | Endemic – Putumayo |
| <i>Gymnocorymbus flaviolimai</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Gymnocorymbus thayeri</i> | | Purus, Juruá, Ucayali, Napo-Ambyiacu, Negro, Trombetas, Amazonas main channel, Parnaíba, Gurupi-Turiaçu, Corentyne-Demerara |
| <i>Hasemania crenuchooides</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Hasemania hanseni</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Hasemania kalunga</i> * | | Endemic – upper Tocantins |
| <i>Hasemania nambiquara</i> * | | Endemic – Juruena |
| <i>Hemibrycon beni</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Hemibrycon divisorensis</i> * | | Endemic – Ucayali |
| <i>Hemibrycon helleri</i> * | | Ucayali, Marañon-Nanay |
| <i>Hemibrycon huambonicus</i> * | | Beni-Madre de Dios, Marañon-Nanay |
| <i>Hemibrycon inambari</i> * | | Beni-Madre de Dios, Madeira Shield Tributaries |
| <i>Hemibrycon jelskii</i> * | | Mamoré, Beni-Madre de Dios, Purus, Juruá, Ucayali, Marañon-Nanay |
| <i>Hemibrycon metae</i> | | Japurá, lower Orinoco, upper Orinoco, Apure |
| <i>Hemibrycon mikrostiktos</i> * | | Endemic – Ucayali |
| <i>Hemibrycon polyodon</i> * | | Endemic – Marañon |
| <i>Hemibrycon surinamensis</i> | | Upper Tocantins, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Maroni-Approuague, Coppename-Suriname-Saramacca |
| <i>Hemibrycon tridens</i> * | | Endemic – Ucayali |
| <i>Hemigrammus aguaruna</i> * | | Marañon-Nanay, Amazonas main channel |
| <i>Hemigrammus analis</i> | | Teles Pires, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Jutai, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, upper Orinoco, Apure |
| <i>Hemigrammus arua</i> * | | Endemic – Amazonas main channel |
| <i>Hemigrammus ataktos</i> * | | Endemic – upper Tocantins |
| <i>Hemigrammus barrigonae</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Hemigrammus bellottii</i> | | Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hemigrammus bleheri</i> | | Negro, upper Orinoco |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|---|
| <i>Hemigrammus coeruleus</i> * | | Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Hemigrammus cupreus</i> * | | Endemic – Amazonas main channel |
| <i>Hemigrammus cylindricus</i> | | Negro, Branco, Essequibo, upper Orinoco |
| <i>Hemigrammus diagonicus</i> * | | Jari, Amazonas main channel |
| <i>Hemigrammus durbinae</i> | | Guaporé, middle-lower Madeira, Purus, Amazonas main channel, Paraná-Paraguay |
| <i>Hemigrammus elegans</i> | | Amazonas main channel, upper Orinoco, Apure |
| <i>Hemigrammus erythrozonus</i> | | Branco, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hemigrammus falsus</i> ** | | |
| <i>Hemigrammus filamentosus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Hemigrammus geisleri</i> * | | Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel |
| <i>Hemigrammus gracilis</i> | | Putumayo, Japurá, Branco, Amazonas main channel, Essequibo, upper Orinoco |
| <i>Hemigrammus guyanensis</i> * | | Lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel, Amazonas Estuary, Gurupi-Turiaçu, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hemigrammus haraldi</i> * | | Purus, Tefé, Ucayali, Japurá, Negro, Amazonas main channel |
| <i>Hemigrammus hyanuary</i> | | Tapajós, Mamoré, middle-lower Madeira, Negro, Amazonas main channel, upper Orinoco |
| <i>Hemigrammus iota</i> | | Japurá, Branco, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Hemigrammus levis</i> | | upper Tocantins, Araguaia, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hemigrammus luelingi</i> * | | Ucayali, Putumayo, Japurá, Amazonas main channel |
| <i>Hemigrammus lunatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Corentyne-Demerara, Paraná-Paraguay |
| <i>Hemigrammus machadoi</i> | | Mamoré, Guaporé, middle-lower Madeira, Paraná-Paraguay |
| <i>Hemigrammus mahnerti</i> | | Guaporé, Paraná-Paraguay |
| <i>Hemigrammus megaceps</i> * | | Endemic – Ucayali |
| <i>Hemigrammus melanochrous</i> * | | Teles Pires, middle-lower Madeira, Juruá, Putumayo, Japurá |
| <i>Hemigrammus microstomus</i> | | Teles Pires, Putumayo, Japurá, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hemigrammus mimus</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Hemigrammus neptunus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Branco, Trombetas, Paraná-Paraguay |
| <i>Hemigrammus newboldi</i> | | Upper Xingu, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hemigrammus ocellifer</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Jutai, Ucayali, Maraõon-Nanay, Napo-Ambiyacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Hemigrammus ora</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Teles Pires, Juruena, Tapajós, Amazonas Estuary, Maroni-Approuague |
| <i>Hemigrammus orthus</i> | | Tapajós, Corentyne-Demerara, Essequibo |

| Taxon | Species | Occurrence |
|--------------------------------------|--|------------|
| <i>Hemigrammus parana</i> | Araguaia, Paraná-Paraguay | |
| <i>Hemigrammus pretoensis</i> * | Negro, Urubu-Uatumã, Amazonas main channel | |
| <i>Hemigrammus pulcher</i> * | Putumayo, Amazonas main channel | |
| <i>Hemigrammus rodwayi</i> | Araguaia, lower Tocantins, Branco, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco | |
| <i>Hemigrammus schmardae</i> | Juruá, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Essequibo | |
| <i>Hemigrammus silimoni</i> * | Juruena, Madeira Shield Tributaries | |
| <i>Hemigrammus skolioplatus</i> * | Endemic – Juruena | |
| <i>Hemigrammus stictus</i> | Tapajós, Mamoré, Guaporé, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, Apure | |
| <i>Hemigrammus tocantinsi</i> * | Endemic – upper Tocantins | |
| <i>Hemigrammus tridens</i> | Guaporé, Paraná-Paraguay | |
| <i>Hemigrammus unilineatus</i> | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Amazonas Estuary, Gurupi-Turiação, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure | |
| <i>Hemigrammus vorderwinkleri</i> | Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Trombetas, lower Orinoco, upper Orinoco, Apure | |
| <i>Hemigrammus yinyang</i> * | Endemic – Negro | |
| <i>Heterocharax leptogrammus</i> | Negro, upper Orinoco | |
| <i>Heterocharax macrolepis</i> | Upper Xingu, lower Xingu, Tapajós, middle-lower Madeira, Maraion-Nanay, Napo-Ambyiacu, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure | |
| <i>Heterocharax virgulus</i> | Tapajós, middle-lower Madeira, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure | |
| <i>Hoplocharax goethei</i> | Tapajós, middle-lower Madeira, Negro, Urubu-Uatumã, Amazonas main channel, upper Orinoco | |
| <i>Hyphessobrycon agulha</i> * | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Jutai, Ucayali, Putumayo, Negro, Urubu-Uatumã, Amazonas main channel | |
| <i>Hyphessobrycon amandae</i> * | Endemic – Araguaia | |
| <i>Hyphessobrycon amaronensis</i> * | Endemic – Putumayo | |
| <i>Hyphessobrycon bentosi</i> | Lower Tocantins, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure | |
| <i>Hyphessobrycon cachimbensis</i> * | Endemic – Teles Pires | |
| <i>Hyphessobrycon catableptus</i> | Branco, Essequibo | |
| <i>Hyphessobrycon clavatus</i> ** | | |
| <i>Hyphessobrycon coelestinus</i> | Upper Tocantins, Paraná-Paraguay, São Francisco | |
| <i>Hyphessobrycon copelandi</i> | Araguaia, lower Xingu, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Jutai, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, upper Orinoco | |
| <i>Hyphessobrycon cyanotaenia</i> * | Juruena, Guaporé, Paraná-Paraguay | |
| <i>Hyphessobrycon delimai</i> * | Endemic – Jamanxim | |

| Taxon | Species | Occurrence |
|--|---------|--|
| <i>Hyphessobrycon diancistrus</i> | | Upper Xingu, Iriri, Teles Pires, Tapajós, middle-lower Madeira, Purus, Tefé, Japurá, Negro, Amazonas main channel, upper Orinoco |
| <i>Hyphessobrycon diastatos</i> * | | Upper Tocantins, São Francisco |
| <i>Hyphessobrycon dorsalis</i> * | | Teles Pires, Negro, Branco |
| <i>Hyphessobrycon eilyos</i> * | | Endemic – Araguaia |
| <i>Hyphessobrycon elachys</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Hyphessobrycon epicharis</i> | | Negro, upper Orinoco |
| <i>Hyphessobrycon eques</i> | | Upper Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Amazonas main channel, Paraná-Paraguay |
| <i>Hyphessobrycon ericae</i> * | | Tapajós, middle-lower Madeira, Trombetas |
| <i>Hyphessobrycon erythrostigma</i> * | | Purus, Tefé, Marañon-Nanay, Putumayo, Japurá, Branco, Amazonas main channel |
| <i>Hyphessobrycon eschwartzae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Hyphessobrycon frankei</i> * | | Endemic – Ucayali |
| <i>Hyphessobrycon gracilior</i> * | | Beni-Madre de Dios, middle-lower Madeira, Ucayali, Japurá, Amazonas main channel |
| <i>Hyphessobrycon hamatus</i> * | | Endemic – upper Tocantins |
| <i>Hyphessobrycon haraldschultzi</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Hyphessobrycon hasemani</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Hyphessobrycon heliacus</i> * | | Endemic – Teles Pires |
| <i>Hyphessobrycon heterorhabdus</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Capim |
| <i>Hyphessobrycon hexastichos</i> * | | Juruena, Guaporé |
| <i>Hyphessobrycon inconstans</i> ** | | |
| <i>Hyphessobrycon jackrobertsi</i> * | | Endemic – Marañon |
| <i>Hyphessobrycon juruna</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Hyphessobrycon kayabi</i> * | | Endemic – Teles Pires |
| <i>Hyphessobrycon khardinae</i> * | | Middle-lower Madeira, Purus |
| <i>Hyphessobrycon krenakore</i> * | | Endemic – Iriri |
| <i>Hyphessobrycon langeanii</i> * | | Endemic – Araguaia |
| <i>Hyphessobrycon loretoensis</i> * | | Purus, Putumayo, Japurá, Amazonas main channel |
| <i>Hyphessobrycon loweae</i> * | | Araguaia, upper Xingu |
| <i>Hyphessobrycon lucenorum</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hyphessobrycon margitae</i> * | | Endemic – Marañon |
| <i>Hyphessobrycon megalopterus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Hyphessobrycon melanostichos</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Hyphessobrycon melasemeion</i> ** | | |
| <i>Hyphessobrycon melazonatus</i> * | | Japurá, Amazonas main channel |
| <i>Hyphessobrycon minor</i> | | Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hyphessobrycon moniliger</i> | | Upper Tocantins, Araguaia, upper Xingu, Teles Pires, Juruena, Paraná-Paraguay |
| <i>Hyphessobrycon montagi</i> * | | Endemic – Amazonas main channel |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|---|
| <i>Hyphessobrycon mutabilis</i> * | | Endemic – upper Xingu |
| <i>Hyphessobrycon myrmex</i> * | | Endemic – Juruena |
| <i>Hyphessobrycon nigricinctus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Hyphessobrycon notidanos</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Hyphessobrycon oritoensis</i> * | | Endemic – Putumayo |
| <i>Hyphessobrycon paepkei</i> * | | Endemic – Negro |
| <i>Hyphessobrycon pando</i> * | | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) |
| <i>Hyphessobrycon peruvianus</i> * | | Putumayo, Japurá, Amazonas main channel |
| <i>Hyphessobrycon petricolus</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hyphessobrycon peugeoti</i> * | | Endemic – Juruena |
| <i>Hyphessobrycon pinnistriatus</i> * | | Endemic – Teles Pires |
| <i>Hyphessobrycon piranga</i> * | | Endemic – Juruena |
| <i>Hyphessobrycon platyodus</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hyphessobrycon procyon</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hyphessobrycon psittacus</i> * | | Juruena, Guaporé |
| <i>Hyphessobrycon pulchripinnis</i> * | | Lower Xingu, Teles Pires, Tapajós, Urubu-Uatumã |
| <i>Hyphessobrycon pyrrhonotus</i> * | | Endemic – Negro |
| <i>Hyphessobrycon robustulus</i> * | | Endemic – Amazonas main channel |
| <i>Hyphessobrycon rosaceus</i> | | Trombetas, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Hyphessobrycon scholzei</i> * | | Japurá |
| <i>Hyphessobrycon scutulatus</i> * | | Endemic – Teles Pires |
| <i>Hyphessobrycon socolofi</i> * | | Negro, Branco, Amazonas main channel |
| <i>Hyphessobrycon stegemanni</i> * | | Endemic – upper Tocantins |
| <i>Hyphessobrycon stramineus</i> ** | | Amazonas main channel |
| <i>Hyphessobrycon sweglesi</i> | | Mamoré, middle-lower Madeira, Purus, Negro, Branco, Amazonas main channel, upper Orinoco, Apure |
| <i>Hyphessobrycon taguae</i> | | Putumayo, upper Orinoco |
| <i>Hyphessobrycon taphorni</i> * | | Endemic – Beni-Madre de Dios |
| <i>Hyphessobrycon tenuis</i> * | | Endemic – Ucayali |
| <i>Hyphessobrycon tropis</i> * | | Endemic – Negro |
| <i>Hyphessobrycon tukunai</i> * | | Putumayo, Amazonas main channel |
| <i>Hyphessobrycon vanzolinii</i> * | | Endemic – Tapajós |
| <i>Hyphessobrycon vilmae</i> | | Upper Xingu, Teles Pires, Juruena, Madeira Shield Tributaries, Paraná-Paraguay |
| <i>Hyphessobrycon wadai</i> * | | Endemic – Juruena |
| <i>Hyphessobrycon weitzmanorum</i> * | | Endemic – Araguaia |
| <i>Hyphessobrycon wosiackii</i> * | | Endemic – Middle-lower Madeira |
| <i>Iguanodectes adujai</i> | | Negro, upper Orinoco |
| <i>Iguanodectes geisleri</i> | | Middle-lower Madeira, Madeira Shield Tributaries, Japurá, Negro, Branco, lower Orinoco, upper Orinoco |

| Taxon | Species | Occurrence |
|---------------------------------|---------|---|
| <i>Iguanodectes gracilis</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Iguanodectes polylepis</i> * | | Purus |
| <i>Iguanodectes purusii</i> * | | Teles Pires, Guaporé, middle-lower Madeira, Amazonas main channel |
| <i>Iguanodectes rachovii</i> | | Amazonas main channel, Capim |
| <i>Iguanodectes spilurus</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Iguanodectes variatus</i> * | | Mamoré, Branco |
| <i>Inpaichthys kerri</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Jupiaba abramoides</i> | | Iri, Negro, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Jupiaba acanthogaster</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Trombetas, Paraná-Paraguay |
| <i>Jupiaba anteroides</i> | | Lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, middle-lower Madeira, Javari, Japurá, Negro, Trombetas, Amazonas main channel, Capim, lower Orinoco, upper Orinoco |
| <i>Jupiaba apenima</i> * | | Upper Tocantins, Araguaia, upper Xingu, Iri, lower Xingu, Teles Pires, Tapajós |
| <i>Jupiaba asymmetrica</i> * | | Jutaí, Putumayo, Japurá, Amazonas main channel |
| <i>Jupiaba atypindi</i> | | Negro, Branco, Trombetas, Essequibo, upper Orinoco |
| <i>Jupiaba citrina</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Jupiaba elassonaktis</i> * | | Endemic – upper Tocantins |
| <i>Jupiaba essequibensis</i> | | Lower Xingu, Madeira Shield Tributaries, Jari, Essequibo |
| <i>Jupiaba iasy</i> * | | Lower Xingu, Teles Pires, Tapajós, Jamanxim, Madeira Shield Tributaries |
| <i>Jupiaba kurua</i> * | | Endemic – Iri |
| <i>Jupiaba meunieri</i> | | Iri, Teles Pires, Juruena, Jamanxim, Trombetas, Jari, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Jupiaba minor</i> * | | Endemic – Teles Pires |
| <i>Jupiaba ocellata</i> | | Curuá-Paru do Oeste, Oiapoque |
| <i>Jupiaba paranatinga</i> * | | Restricted to Tapajós basin (Teles Pires, Jamanxim) |
| <i>Jupiaba pinnata</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Jupiaba pirana</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Jupiaba poekotero</i> * | | Endemic – Negro |
| <i>Jupiaba polylepis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Tapajós, Branco, Jari, Parnaíba, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Jupiaba poranga</i> * | | Teles Pires, Juruena, Madeira Shield Tributaries |
| <i>Jupiaba scologaster</i> | | Negro, Branco, lower Orinoco, upper Orinoco |
| <i>Jupiaba yarina</i> * | | Endemic – Juruena |
| <i>Jupiaba zonata</i> | | Lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Amazonas main channel, Capim, lower Orinoco |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Knodus borki</i> * | | Endemic – Amazonas main channel |
| <i>Knodus breviceps</i> ** | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, lower Orinoco, upper Orinoco |
| <i>Knodus chapadae</i> | | Upper Tocantins, Guaporé, Paraná-Paraguay |
| <i>Knodus delta</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo |
| <i>Knodus dorsomaculatus</i> * | | Endemic – Teles Pires |
| <i>Knodus figueiredoi</i> * | | Endemic – Araguaia |
| <i>Knodus gamma</i> * | | Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu |
| <i>Knodus heteresthes</i> | | Araguaia, Tapajós, Jamanxim, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Trombetas, Amazonas main channel, Maroni-Approuague, upper Orinoco |
| <i>Knodus hypopterus</i> | | Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, lower Orinoco, upper Orinoco, Apure |
| <i>Knodus jacunda</i> ** | | |
| <i>Knodus longus</i> ** | | Endemic – Beni-Madre de Dios |
| <i>Knodus megalops</i> * | | Ucayali, Marañon-Nanay |
| <i>Knodus mizquae</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Knodus moenkhausii</i> | | Iriri, Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Knodus pasco</i> * | | Endemic – Ucayali |
| <i>Knodus savannensis</i> | | Upper Tocantins, Araguaia, Itapicuru-Mearim, Capim |
| <i>Knodus septentrionalis</i> ** | | Putumayo |
| <i>Knodus shinahota</i> * | | Endemic – Mamoré |
| <i>Knodus smithi</i> * | | Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali |
| <i>Leptagoniates steindachneri</i> * | | Upper Tocantins, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Leptobrycon jatuaranae</i> * | | Endemic – Negro |
| <i>Lonchogenys ilisha</i> | | Putumayo, Negro, Amazonas main channel, upper Orinoco, Apure |
| <i>Macropsobrycon xinguensis</i> * | | Araguaia, upper Xingu, Teles Pires |
| <i>Markiana geayi</i> | | Japurá, lower Orinoco, upper Orinoco, Apure |
| <i>Markiana nigripinnis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Microgenys lativirgata</i> * | | Endemic – Marañon |
| <i>Microgenys weyrauchi</i> ** | | Ucayali |
| <i>Microschemobrycon callops</i> | | Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Jutáí, Japurá, Negro, Branco, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Microschemobrycon casiquire</i> | | Iriri, lower Xingu, Teles Pires, Jamanxim, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Japurá, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Microschemobrycon elongatus</i> | | Araguaia, upper Xingu, Teles Pires, Beni-Madre de Dios, middle-lower Madeira, Itapicuru-Mearim, Capim, Paraná-Paraguay |
| <i>Microschemobrycon geisleri</i> | | Araguaia, Teles Pires, Tapajós, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Negro, Capim, Essequibo |
| <i>Microschemobrycon guaporensis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Microchemobrycon melanotus</i> | | Teles Pires, Mamoré, Guaporé, middle-lower Madeira, Coari-Urucu, Jutai, Japurá, Negro, Amazonas main channel, Essequibo |
| <i>Microchemobrycon meyburgi</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Moenkhausia abyss</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Tapajós, middle-lower Madeira, Negro, Trombetas, Paru, Jari, Amazonas main channel |
| <i>Moenkhausia affinis</i> * | | Endemic – Negro |
| <i>Moenkhausia agnesae</i> * | | Endemic – Amazonas main channel |
| <i>Moenkhausia alesi</i> * | | Endemic – upper Xingu |
| <i>Moenkhausia atahualpiana</i> ** | | |
| <i>Moenkhausia aurantia</i> * | | Upper Tocantins, Araguaia, Parará-Paraguay, São Francisco |
| <i>Moenkhausia barbouri</i> * | | Endemic – Amazonas main channel |
| <i>Moenkhausia beninei</i> * | | Endemic – Negro |
| <i>Moenkhausia bonita</i> | | Middle-lower Madeira, Paraná-Paraguay |
| <i>Moenkhausia britskii</i> * | | Endemic – Putumayo |
| <i>Moenkhausia celibela</i> * | | Iri, lower Xingu, Teles Pires, Tapajós, Jamanxim, middle-lower Madeira, Branco, Jari, Amazonas main channel |
| <i>Moenkhausia ceros</i> | | Teles Pires, Tapajós, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Tefé, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo |
| <i>Moenkhausia chlorophthalma</i> * | | Endemic – Iri |
| <i>Moenkhausia chrysargyrea</i> | | Lower Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Moenkhausia colletii</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Moenkhausia comma</i> | | Lower Tocantins, lower Xingu, Tapajós, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Moenkhausia conspicua</i> * | | Endemic – Tapajós |
| <i>Moenkhausia copei</i> | | Napo-Ambyiacu, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Moenkhausia cosmops</i> | | Juruena, Paraná-Paraguay |
| <i>Moenkhausia cotinho</i> | | Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Moenkhausia crisnejas</i> * | | Endemic – Maraón |
| <i>Moenkhausia dasalmas</i> * | | Endemic – upper Tocantins |
| <i>Moenkhausia dichroua</i> | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| <i>Moenkhausia diktyota</i> * | | Middle-lower Madeira, Negro |
| <i>Moenkhausia dorsinuda</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Moenkhausia eurystaenia</i> * | | Endemic – upper Xingu |
| <i>Moenkhausia goya</i> * | | Endemic – upper Tocantins |
| <i>Moenkhausia gracilima</i> | | Araguaia, Juruena, Tapajós, middle-lower Madeira, Japurá, Negro, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Moenkhausia grandisquamis</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Branco, Amazonas main channel, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Moenkhausia hasemani</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Negro, Amazonas main channel, Capim |
| <i>Moenkhausia heikoi</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Moenkhausia hemigrammoides</i> | | Tapajós, Negro, Branco, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Moenkhausia hysterosticta</i> | | Upper Tocantins, middle-lower Madeira, Purus, Trombetas, Apure |
| <i>Moenkhausia icae</i> * | | Putumayo, Japurá, Amazonas main channel |
| <i>Moenkhausia intermedia</i> | | Upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Amazonas main channel, Maroni-Approuague, lower Orinoco, upper Orinoco, Paraná-Paraguay |
| <i>Moenkhausia ischyognatha</i> * | | Endemic – upper Tocantins |
| <i>Moenkhausia jamesi</i> * | | Purus, Juruá, Amazonas main channel, Amazonas Estuary |
| <i>Moenkhausia justae</i> * | | Araguaia, Japurá, Negro, Amazonas main channel |
| <i>Moenkhausia lata</i> | | Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Negro, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco |
| <i>Moenkhausia latissima</i> * | | Endemic – Amazonas main channel |
| <i>Moenkhausia lepidura</i> | | Araguaia, lower Tocantins, Tapajós, Guaporé, middle-lower Madeira, Purus, Putumayo, Negro, Trombetas, Amazonas main channel, upper Orinoco, Apure |
| <i>Moenkhausia levidorsa</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Moenkhausia lineomaculata</i> * | | Endemic – Juruena |
| <i>Moenkhausia lopesi</i> | | Araguaia, Juruena, Paraná-Paraguay |
| <i>Moenkhausia loweae</i> * | | Upper Tocantins, Araguaia, upper Xingu, Iriri |
| <i>Moenkhausia margitae</i> * | | Endemic – Ucayali |
| <i>Moenkhausia megalops</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Jamanxim, middle-lower Madeira, Putumayo, Japurá, Branco, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Moenkhausia melogramma</i> | | Putumayo, Amazonas main channel, upper Orinoco |
| <i>Moenkhausia miangi</i> | | Putumayo, Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Moenkhausia mikia</i> | | Lower Xingu, Teles Pires, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Coari-Urucu, Ucayali, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Moenkhausia monicae</i> * | | Endemic – Juruena |
| <i>Moenkhausia mutum</i> * | | Endemic – Juruena |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Moenkhausia naponis</i> * | | Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Moenkhausia newtoni</i> ** | | Upper Xingu |
| <i>Moenkhausia nigromarginata</i> * | | Endemic – Juruena |
| <i>Moenkhausia oligolepis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Jutaí, Ucayali, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Moenkhausia orteguasae</i> * | | Endemic – Japurá |
| <i>Moenkhausia ovalis</i> * | | Japurá |
| <i>Moenkhausia pankilopteryx</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Moenkhausia parecis</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Moenkhausia petymbuaba</i> * | | Endemic – Iriri |
| <i>Moenkhausia phaeonota</i> | | Araguaia, upper Xingu, Teles Pires, Juruena, Paraná-Paraguay |
| <i>Moenkhausia pirauba</i> * | | Upper Xingu, Iriri, Teles Pires, Juruena, Jamanxim |
| <i>Moenkhausia plumbea</i> * | | Endemic – Teles Pires |
| <i>Moenkhausia pyrophthalma</i> * | | Araguaia, upper Xingu |
| <i>Moenkhausia robertsi</i> * | | Japurá, Amazonas main channel |
| <i>Moenkhausia rubra</i> * | | Juruena, Guaporé |
| <i>Moenkhausia sthenosthoma</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) |
| <i>Moenkhausia surinamensis</i> | | Trombetas, Araguari-Macari-Amapá, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, upper Orinoco |
| <i>Moenkhausia tergimacula</i> * | | Endemic – upper Tocantins |
| <i>Moenkhausia tridentata</i> ** | | |
| <i>Moenkhausia uirapuru</i> * | | Juruena, Guaporé |
| <i>Moenkhausia veneri</i> * | | Endemic – Araguaia |
| <i>Moenkhausia xinguensis</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Monotocheirodon drilos</i> * | | Endemic – Beni-Madre de Dios |
| <i>Monotocheirodon kontos</i> * | | Endemic – Beni-Madre de Dios |
| <i>Monotocheirodon pearsoni</i> * | | Endemic – Beni-Madre de Dios |
| <i>Odontostilbe dierythrura</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Odontostilbe ecuadorensis</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo |
| <i>Odontostilbe euspilurus</i> * | | Beni-Madre de Dios, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Odontostilbe fugitiva</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Amazonas main channel |
| <i>Odontostilbe gracilis</i> | | Branco, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Odontostilbe nareuda</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus |
| <i>Odontostilbe paraguayensis</i> | | Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|--------------------------------------|--|------------|
| <i>Odontostilbe parecis</i> * | Endemic – Guaporé | |
| <i>Odontostilbe pulchra</i> | Negro, lower Orinoco, upper Orinoco, Apure | |
| <i>Oligosarcus bolivianus</i> | Mamoré, Guaporé, Paraná-Paraguay | |
| <i>Oligosarcus pintoii</i> | Guaporé, Paraná-Paraguay | |
| <i>Oligosarcus schindleri</i> * | Endemic – Mamoré | |
| <i>Othonocheirodus eigenmanni</i> * | Endemic – Marañon | |
| <i>Oxybrycon parvulus</i> * | Middle-lower Madeira, Ucayali | |
| <i>Paracheirodon axelrodi</i> | Negro, Coppename-Suriname-Saramacca, upper Orinoco | |
| <i>Paracheirodon innesi</i> * | Middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Amazonas main channel | |
| <i>Paracheirodon simulans</i> | Negro, Branco, upper Orinoco | |
| <i>Paragoniates alburnus</i> | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco, Apure | |
| <i>Parapristella aubyni</i> | Branco, Corentyne-Demerara, Essequibo, upper Orinoco | |
| <i>Parapristella georgiae</i> | Araguaia, Branco, lower Orinoco, upper Orinoco, Apure | |
| <i>Parecbasis cyclolepis</i> * | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali | |
| <i>Petitella georgiae</i> * | Middle-lower Madeira, Purus, Marañon-Nanay, Negro | |
| <i>Phallobrycon adenacanthus</i> * | Restricted to Xingu basin (upper Xingu, Iriiri) | |
| <i>Phallobrycon synarmacanthus</i> * | Endemic – lower Xingu | |
| <i>Phenacogaster beni</i> * | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries | |
| <i>Phenacogaster capitulata</i> * | Juruá, Ucayali | |
| <i>Phenacogaster eurytaenia</i> * | Endemic – upper Tocantins | |
| <i>Phenacogaster microstictus</i> * | Branco, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure | |
| <i>Phenacogaster naevata</i> * | Endemic – upper Tocantins | |
| <i>Phenacogaster napaotilis</i> * | Endemic – Napo-Ambyiacu | |
| <i>Phenacogaster ojitatus</i> * | Endemic – Iriiri | |
| <i>Phenacogaster pectinatus</i> * | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Putumayo, Japurá, Amazonas main channel | |
| <i>Phenacogaster prolatus</i> | Negro, upper Orinoco | |
| <i>Phenacogaster retropinnus</i> * | Upper Xingu, middle-lower Madeira, Madeira Shield Tributaries, Negro | |
| <i>Phycocharax rasbora</i> * | Endemic – Teles Pires | |
| <i>Piabucus caudomaculatus</i> * | Restricted to Madeira basin (Mamoré, Guaporé) | |
| <i>Piabucus dentatus</i> | Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco | |
| <i>Piabucus melanostoma</i> | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay | |
| <i>Poptella brevispina</i> | Lower Tocantins, Branco, Trombetas, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco | |
| <i>Poptella compressa</i> * | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Branco, Parnaíba, Itapicuru-Mearim, Essequibo, lower Orinoco, upper Orinoco, Apure | |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Poptella longipinnis</i> | | Lower Tocantins, Branco, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Priocharax ariel</i> | | Middle-lower Madeira, Negro, Amazonas main channel, upper Orinoco |
| <i>Priocharax nanus</i> * | | Endemic – Negro |
| <i>Priocharax pygmaeus</i> * | | Endemic – Amazonas main channel |
| <i>Prionobrama filigera</i> * | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Pristella maxillaris</i> | | Lower Tocantins, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Prodontocharax alleni</i> * | | Mamoré, middle-lower Madeira, Ucayali, Amazonas main channel |
| <i>Prodontocharax howesi</i> * | | Endemic – Mamoré |
| <i>Prodontocharax melanotus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Purus, Ucayali |
| <i>Protocheirolodon pi</i> * | | Middle-lower Madeira, Purus, Ucayali, Amazonas main channel |
| <i>Ptychocharax rhyacophila</i> | | Negro, upper Orinoco |
| <i>Rhinobrycon negrensis</i> | | Negro, upper Orinoco |
| <i>Rhinopetitia myersi</i> * | | Endemic – Araguaia |
| <i>Rhinopetitia potamorhachia</i> * | | Endemic – Teles Pires |
| <i>Roeboexodon guyanensis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Juruena, Tapajós, Jamanxim, Jari, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Roeboides affinis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Jutaí, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Roeboides biserialis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Amazonas main channel |
| <i>Roeboides descalvadensis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Trombetas, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay |
| <i>Roeboides dispar</i> * | | Mamoré, middle-lower Madeira, Juruá, Ucayali |
| <i>Roeboides myersi</i> | | Araguaia, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Trombetas, Amazonas main channel, lower Orinoco |
| <i>Roeboides oligistos</i> * | | Tapajós, Negro, Branco, Trombetas |
| <i>Salminus brasiliensis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Salminus hilarii</i> | | Upper Tocantins, Araguaia, lower Tocantins, Guaporé, Beni-Madre de Dios, Putumayo, Japurá, Branco, Paraná-Paraguay |
| " <i>Salminus iquitensis</i> " | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Branco, upper Orinoco, Apure |
| <i>Schultziates axelrodi</i> | | Negro, upper Orinoco |
| <i>Scopaeocharax atopodus</i> * | | Endemic – Marañon |
| <i>Scopaeocharax rhinodus</i> * | | Endemic – Marañon |
| <i>Serrabrycon magoi</i> | | Negro, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|---|
| <i>Serrapinnus aster</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Serrapinnus lucindai</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Serrapinnus malabarbai</i> * | | Endemic – Araguaia |
| <i>Serrapinnus microdon</i> | | Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Serrapinnus micropterus</i> * | | Araguaia, Teles Pires, Tapajós, Mamoré, middle-lower Madeira, Amazonas main channel |
| <i>Serrapinnus notomelas</i> | | Teles Pires, Paraná-Paraguay |
| <i>Serrapinnus sterbai</i> * | | Endemic – upper Tocantins |
| <i>Serrapinnus tocantinensis</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Stethaprion crenatum</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Amazonas main channel, Amazonas Estuary |
| <i>Stethaprion erythrops</i> * | | Ucayali, Marañon-Nanay, Amazonas main channel |
| <i>Stichonodon insignis</i> * | | Purus, Amazonas main channel |
| <i>Tetragonopterus anostomus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Tetragonopterus araguaiensis</i> * | | Endemic – Araguaia |
| <i>Tetragonopterus argenteus</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Beni-Madre de Dios, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel, Parnaíba, Essequibo, upper Orinoco, Paraná-Paraguay |
| <i>Tetragonopterus carvalhoi</i> * | | Endemic – Jari |
| <i>Tetragonopterus chalcus</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Teles Pires, Guaporé, Madeira Shield Tributaries, Napo-Ambyiacu, Negro, Branco, Amazonas main channel, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Tetragonopterus denticulatus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Tetragonopterus juruena</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Tetragonopterus kuluene</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Tetragonopterus manaoas</i> * | | Tefé, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Tetragonopterus ommatus</i> * | | Endemic – Tapajós |
| <i>Tetragonopterus rarus</i> | | Jari, Maroni-Approuague, Corentyne-Demerara |
| <i>Thayeria boehlkei</i> | | Araguaia, upper Xingu, Teles Pires, Guaporé, Putumayo, Japurá, upper Orinoco |
| <i>Thayeria obliqua</i> | | Mamoré, Guaporé, Putumayo, upper Orinoco |
| <i>Thayeria tapajonica</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Thrissobrycon pectinifer</i> | | Negro, Essequibo, upper Orinoco |
| <i>Triporthes albus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Triporthes angulatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo |
| <i>Triporthes auritus</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Purus, Javari, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Triporthesus brachipomus</i> | | Upper Xingu, lower Xingu, Juruena, Tapajós, Negro, Branco, Trombetas, Jari, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Triporthesus culter</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Napo-Ambyiacu |
| <i>Triporthesus curtus</i> * | | Purus, Ucayali, Amazonas Estuary |
| <i>Triporthesus pictus</i> * | | Jutaí, Japurá, Amazonas main channel, Amazonas Estuary |
| <i>Triporthesus rotundatus</i> | | Upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, Purus, Ucayali, Branco, Amazonas main channel, Amazonas Estuary, Corentyne-Demerara, Essequibo |
| <i>Triporthesus trifurcatus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Trochilocharax ornatus</i> ** | | |
| <i>Tucanoichthys tucano</i> * | | Endemic – Negro |
| <i>Tyttobrycon dorsimaculatus</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Tyttobrycon hamatus</i> * | | Endemic – Marañon |
| <i>Tyttobrycon marajoara</i> * | | Endemic – Amazonas Estuary |
| <i>Tyttobrycon spinosus</i> * | | Endemic – Mamoré |
| <i>Tyttobrycon xerui</i> * | | Tapajós, Negro, Branco |
| <i>Tytocharax cochui</i> * | | Endemic – Amazonas main channel |
| <i>Tytocharax madeirae</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Urubu-Uatumã, Amazonas main channel, Capim |
| <i>Tytocharax tambopatisensis</i> * | | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) |
| <i>Xenobrycon coracoralinae</i> * | | Endemic – Araguaia |
| <i>Xenobrycon heterodon</i> * | | Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá |
| <i>Xenobrycon polyancistrus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Xenobrycon pteropus</i> * | | Endemic – Amazonas main channel |
| <i>Xenobrycon varii</i> * | | Restricted to Tapajós basin (Tapajós, Jamanxim) |
| Chilodontidae | 7 | |
| <i>Caenotropus labyrinthicus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Coari-Urucu, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Parnaíba, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Caenotropus maculosus</i> | | Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Caenotropus mestomorgmatos</i> | | Japurá, Negro, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Caenotropus schizodon</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Chilodus fritillus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Chilodus gracilis</i> | | Madeira Shield Tributaries, Putumayo, Negro, Amazonas main channel, upper Orinoco |
| <i>Chilodus punctatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Jutaí, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|----------------------------------|---------|---|
| Crenuchidae | 47 | |
| <i>Ammocryptocharax elegans</i> | | Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Ammocryptocharax minutus</i> | | Negro, Branco, lower Orinoco, upper Orinoco |
| <i>Ammocryptocharax vintonae</i> | | Trombetas, Essequibo, lower Orinoco |
| <i>Characidium boaevistae</i> | | Branco, lower Orinoco, upper Orinoco, Apure, Maracaibo, Cauca-Magdalena-Sinu |
| <i>Characidium boehlkei</i> * | | Endemic – Napo-Ambyiacu |
| <i>Characidium bolivianum</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Characidium crandellii</i> * | | Endemic – Branco |
| <i>Characidium declivirostre</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Characidium etheostoma</i> * | | Endemic – Amazonas main channel |
| <i>Characidium fasciatum</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Juruá, Putumayo, Japurá, Amazonas main channel, Essequibo, Cauca-Magdalena-Sinu, Paraná-Paraguay |
| <i>Characidium hasemani</i> | | Branco, Essequibo |
| <i>Characidium heinianum</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Characidium longum</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Characidium mirim</i> * | | Endemic – Araguaia |
| <i>Characidium nana</i> * | | Iriri, Tapajós |
| <i>Characidium papachibe</i> * | | Endemic – Amazonas main channel |
| <i>Characidium pellucidum</i> | | Branco, Amazonas main channel, Maroni-Approuague, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Characidium pteroides</i> | | Branco, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Characidium purpuratum</i> * | | Guaporé, Ucayali, Napo-Ambyiacu |
| <i>Characidium roesseli</i> * | | Endemic – Amazonas main channel |
| <i>Characidium schindleri</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Characidium steindachneri</i> | | Guaporé, Ucayali, Napo-Ambyiacu, Japurá, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Characidium stigmosum</i> * | | Endemic – upper Tocantins |
| <i>Characidium summum</i> * | | Endemic – Middle-lower Madeira |
| <i>Characidium xanthopterum</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Characidium xavante</i> * | | Endemic – upper Xingu |
| <i>Characidium zebra</i> | | Upper Tocantins, Araguaia, Iriri, Mamoré, Guaporé, Beni-Madre de Dios, Japurá, Branco, Amazonas main channel, Parnaíba, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Crenuchus spilurus</i> * | | Lower Tocantins, lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Elachocharax geryi</i> | | Negro, Branco, lower Orinoco, upper Orinoco, Apure |
| <i>Elachocharax junki</i> | | Middle-lower Madeira, Negro, Branco, Amazonas main channel, Essequibo |
| <i>Elachocharax mitopterus</i> | | Negro, Branco, upper Orinoco |

| Taxon | Species | Occurrence |
|---|---------|--|
| <i>Elachocharax pulcher</i> | | Teles Pires, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Geryichthys sterbai</i> * | | Endemic – Ucayali |
| <i>Klausewitzia ritae</i> * | | Javari, Ucayali, Amazonas main channel |
| <i>Leptocharacidium omospilus</i> | | Negro, upper Orinoco |
| <i>Melanocharacidium auroradiatum</i> * | | Araguaia, upper Xingu, Iriri, Teles Pires |
| <i>Melanocharacidium depressum</i> | | Upper Xingu, Negro, Branco, Urubu-Uatumã, Amazonas main channel, upper Orinoco |
| <i>Melanocharacidium dispilomma</i> | | Upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Javari, Ucayali, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Melanocharacidium nigrum</i> * | | Endemic – Branco |
| <i>Melanocharacidium pectorale</i> | | Mamoré, Guaporé, Madeira Shield Tributaries, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Melanocharacidium rex</i> * | | Endemic – Marañon |
| <i>Microcharacidium eleotrioides</i> | | Mamoré, Guaporé, middle-lower Madeira, Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Microcharacidium geryi</i> * | | Endemic – Ucayali |
| <i>Microcharacidium gnomus</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Microcharacidium weitzmani</i> | | Lower Tocantins, Tapajós, Mamoré, Guaporé, Napo-Ambyiacu, Negro, Jari, Amazonas Estuary, Capim, upper Orinoco |
| <i>Odontocharacidium aphanes</i> | | Middle-lower Madeira, Purus, Juruá, Negro, Branco, Amazonas main channel, upper Orinoco |
| <i>Poecilocharax weitzmani</i> | | Negro, Branco, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco |
| Curimatidae | 74 | |
| <i>Curimata acutirostris</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Curimata aspera</i> * | | Mamoré, Guaporé, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Curimata cerasina</i> | | Japurá, lower Orinoco, Apure |
| <i>Curimata cisandina</i> * | | Ucayali, Branco, Amazonas main channel |
| <i>Curimata cyprinoides</i> | | Upper Tocantins, lower Tocantins, upper Xingu, lower Xingu, Branco, Trombetas, Jari, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Curimata incompta</i> | | Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Curimata inornata</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Branco, Trombetas, Amazonas main channel |
| <i>Curimata knerii</i> * | | Teles Pires, Tapajós, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Trombetas, Jari, Amazonas main channel |

| Taxon | Species | Occurrence |
|----------------------------------|---------|---|
| <i>Curimata ocellata</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco |
| <i>Curimata roseni</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Curimata vittata</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Curimatella alburnus</i> | | Lower Tocantins, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo |
| <i>Curimatella dorsalis</i> | | Araguaia, lower Tocantins, upper Xingu, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Curimatella immaculata*</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Parnaíba, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Curimatella meyeri*</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Curimatopsis cryptica</i> | | Araguaia, lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Curimatopsis evelynae</i> | | Tapajós, Japurá, Negro, Branco, Amazonas main channel, upper Orinoco, Apure |
| <i>Curimatopsis guaporensis*</i> | | Restricted to Madeira basin (Guaporé, middle-lower Madeira) |
| <i>Curimatopsis jaci*</i> | | Endemic – Teles Pires |
| <i>Curimatopsis macrolepis</i> | | Araguaia, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Curimatopsis maculosa*</i> | | Endemic – Tapajós |
| <i>Curimatopsis melanura*</i> | | Endemic – Trombetas |
| <i>Curimatopsis microlepis*</i> | | Purus, Amazonas main channel |
| <i>Curimatopsis pallida*</i> | | Endemic – Negro |
| <i>Cyphocharax abramoides</i> | | Lower Xingu, Tapajós, middle-lower Madeira, Branco, Urubu-Uatumã, Trombetas, Capim, upper Orinoco |
| <i>Cyphocharax aninha*</i> | | Endemic – Paru |
| <i>Cyphocharax biocellatus</i> | | Teles Pires, Maroni-Approuague |
| <i>Cyphocharax boiadeiro*</i> | | Endemic – Araguaia |
| <i>Cyphocharax derhami*</i> | | Ucayali, Marañon-Nanay |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Cyphocharax festivus</i> | | Upper Xingu, lower Xingu, Tapajós, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Cyphocharax gangamon</i> * | | Restricted to Tapajós basin (Juruena, Tapajós) |
| <i>Cyphocharax gouldingi</i> | | Araguaia, lower Tocantins, lower Xingu, Napo-Ambyiacu, Capim, Araguari-Macari-Amapá, Oiapoque, lower Orinoco |
| <i>Cyphocharax helleri</i> | | Jari, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Cyphocharax laticlavius</i> * | | Endemic – Napo-Ambyiacu |
| <i>Cyphocharax leucostictus</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Amazonas main channel, Araguari-Macari-Amapá, Essequibo, lower Orinoco, upper Orinoco |
| <i>Cyphocharax mestomyllon</i> * | | Endemic – Negro |
| <i>Cyphocharax microcephalus</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Cyphocharax multilineatus</i> | | Negro, Branco, upper Orinoco |
| <i>Cyphocharax muyrakytan</i> * | | Endemic – Tapajós |
| <i>Cyphocharax nigripinnis</i> * | | Tapajós, middle-lower Madeira, Putumayo, Japurá, Negro, Branco, Amazonas main channel |
| <i>Cyphocharax notatus</i> | | Araguaia, lower Tocantins, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Napo-Ambyiacu, Negro, Amazonas main channel, Capim |
| <i>Cyphocharax pantostictos</i> * | | Purus, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Cyphocharax plumbeus</i> * | | Araguaia, lower Tocantins, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Negro, Branco, Amazonas main channel |
| <i>Cyphocharax sanctigabrielis</i> * | | Endemic – Negro |
| <i>Cyphocharax signatus</i> * | | Endemic – Araguaia |
| <i>Cyphocharax spiluropsis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Amazonas main channel |
| <i>Cyphocharax spilurus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Jamanxim, Guaporé, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Cyphocharax stilbolepis</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Amazonas main channel |
| <i>Cyphocharax vanderi</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Cyphocharax vexillapinnus</i> * | | Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel |
| <i>Potamorhina altamazonica</i> | | Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Potamorhina latior</i> * | | Iriri, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Potamorhina pristigaster</i> | | Middle-lower Madeira, Purus, Ucayali, Napo-Ambyiacu, Japurá, Branco, Urubu-Uatumã, Amazonas main channel, Itapicuru-Mearim |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Psectrogaster amazonica</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Trombetas, Amazonas main channel |
| <i>Psectrogaster ciliata</i> | | Negro, Branco, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Psectrogaster curviventris</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Paraná-Paraguay |
| <i>Psectrogaster essequibensis</i> | | Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Branco, Amazonas main channel, Corentyne-Demerara, Essequibo |
| <i>Psectrogaster falcata</i> * | | Lower Xingu, Tapajós, Jamanxim, middle-lower Madeira, Amazonas main channel, Amazonas Estuary |
| <i>Psectrogaster rutiloides</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Steindachnerina amazonica</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu |
| <i>Steindachnerina argentea</i> | | Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Steindachnerina bimaculata</i> | | Upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Amazonas main channel, Essequibo, lower Orinoco |
| <i>Steindachnerina binotata</i> | | Mamoré, Beni-Madre de Dios, Amazonas main channel, Itapicuru-Mearim |
| <i>Steindachnerina brevipinna</i> | | Upper Tocantins, Iri, Paraná-Paraguay |
| <i>Steindachnerina dobula</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Steindachnerina fasciata</i> * | | Teles Pires, Juruena, Madeira Shield Tributaries |
| <i>Steindachnerina gracilis</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Steindachnerina guentheri</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Steindachnerina hypostoma</i> * | | Beni-Madre de Dios, middle-lower Madeira, Juruá, Javari, Ucayali, Marañon-Nanay, Putumayo, Branco, Amazonas main channel |
| <i>Steindachnerina leucisca</i> * | | Upper Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Coari-Uruco, Juruá, Javari, Ucayali, Marañon-Nanay, Trombetas, Amazonas main channel |
| <i>Steindachnerina notograptos</i> * | | Endemic – upper Tocantins |
| <i>Steindachnerina planiventris</i> | | Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Napo-Ambyiacu, Japurá, Negro, Branco, Amazonas main channel, Essequibo |
| <i>Steindachnerina quasimodoi</i> * | | Javari, Amazonas main channel |
| <i>Steindachnerina seriata</i> * | | Endemic – Jamanxim |
| Cynodontidae | 10 | |
| <i>Cynodon gibbus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Cynodon septenarius</i> | | Teles Pires, Tapajós, Madeira Shield Tributaries, Tefé, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |

| Taxon | Species | Occurrence |
|------------------------------------|---------|---|
| <i>Hydrolycus armatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hydrolycus scomberoides</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Hydrolycus tatauaia</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hydrolycus wallacei</i> | | Japurá, Negro, Branco, upper Orinoco |
| <i>Rhaphiodon vulpinus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Roestes itupiranga</i> * | | Endemic – lower Tocantins |
| <i>Roestes molossus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Essequibo |
| <i>Roestes ogilviei</i> | | Juruá, Marañon-Nanay, Negro, Branco, Essequibo |
| Ctenoluciidae | 5 | |
| <i>Boulengerella cuvieri</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Javari, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Boulengerella lateristriga</i> | | Japurá, Negro, Branco, upper Orinoco |
| <i>Boulengerella lucius</i> | | Upper Xingu, Tapajós, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Boulengerella maculata</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Boulengerella xyrekes</i> | | Tefé, Javari, Putumayo, Japurá, Negro, Branco, Trombetas, lower Orinoco, upper Orinoco, Apure |
| Erythrinidae | 5 | |
| <i>Erythrinus erythrinus</i> * | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Jutai, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hoplerythrinus unitaeniatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|---------------------------------|---------|---|
| <i>Hoplias aimara</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Urubu-Uatumã, Trombetas, Jari, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Hoplias curupira</i> | | Upper Tocantins, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Hoplias malabaricus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Maracaibo, Cauca-Magdalena-Sinu, Atrato, Paraná-Paraguay |
| Gasteropelecidae | 8 | |
| <i>Carnegiella marthae</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Carnegiella myersi</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Marañon-Nanay, Putumayo, Amazonas main channel, lower Orinoco |
| <i>Carnegiella schereri</i> * | | Endemic – Napo-Ambyiacu |
| <i>Carnegiella strigata</i> * | | Lower Tocantins, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Javari, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Gasteropelecus levis</i> * | | Amazonas main channel, Amazonas Estuary |
| <i>Gasteropelecus sternicla</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Thoracocharax securis</i> * | | Mamoré, Guaporé, Purus, Juruá, Putumayo, Amazonas main channel |
| <i>Thoracocharax stellatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| Hemiodontidae | 26 | |
| <i>Anodus elongatus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Anodus orinocensis</i> | | Araguaia, lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Argonectes longiceps</i> | | Tapajós, middle-lower Madeira, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Argonectes robertsi</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Capim |
| <i>Bivibranchia fowleri</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Bivibranchia notata</i> * | | Lower Tocantins, Teles Pires, Tapajós, Trombetas |
| <i>Bivibranchia velox</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriiri, lower Xingu |
| <i>Hemiodus amazonum</i> | | Teles Pires, middle-lower Madeira, Madeira Shield Tributaries, Marañon-Nanay, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hemiodus argenteus</i> | | Upper Xingu, Iriiri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, Japurá, Negro, Branco, Amazonas main channel, Itapicuru-Mearim, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hemiodus atranalis</i> * | | Middle-lower Madeira, Ucayali, Negro, Branco, Amazonas main channel |
| <i>Hemiodus goeldii</i> | | Araguaia, lower Tocantins, lower Xingu, Putumayo, Negro, Branco, Araguari-Macari-Amapá |
| <i>Hemiodus gracilis</i> | | Araguaia, Tapajós, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Hemiodus immaculatus</i> | | Upper Xingu, lower Xingu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Jutai, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Hemiodus iratapuru</i> * | | Endemic – Jari |
| <i>Hemiodus jatuarana</i> * | | Endemic – Trombetas |
| <i>Hemiodus langeanii</i> * | | Endemic – Amazonas main channel |
| <i>Hemiodus microlepis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Teles Pires, Juruena, Jamanxim, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hemiodus quadrimaculatus</i> | | Teles Pires, Branco, Trombetas, Araguari-Macari-Amapá, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Hemiodus semitaeniatus</i> | | Araguaia, upper Xingu, Iriiri, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Negro, Branco, Urubu-Uatumã, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Paraná-Paraguay |
| <i>Hemiodus sterni</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena, Jamanxim) |
| <i>Hemiodus ternetzi</i> | | Upper Tocantins, lower Tocantins, upper Xingu, lower Orinoco |
| <i>Hemiodus thayeria</i> | | Negro, Amazonas main channel, Essequibo, upper Orinoco |
| <i>Hemiodus tocantinensis</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Iriiri, lower Xingu |
| <i>Hemiodus unimaculatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriiri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Hemiodus vorderwinkleri</i> | | Upper Xingu, Iriiri, lower Xingu, Amazonas main channel, lower Orinoco |
| <i>Micromisichodus sugillatus</i> * | | Negro, Urubu-Uatumã, Trombetas, Amazonas main channel |
| Lebiasinidae | 49 | |
| <i>Copeina guttata</i> * | | Lower Xingu, Juruá, Putumayo, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Copeina osgoodi</i> * | | Putumayo, Amazonas main channel |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Copella arnoldi</i> * | | Jari, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, Atl. Coastal Drainages of Col. Ven. |
| <i>Copella callolepis</i> * | | Middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Putumayo, Trombetas, Jari, Amazonas main channel, Amazonas Estuary |
| <i>Copella compta</i> * | | Endemic – Negro |
| <i>Copella eigenmanni</i> | | Putumayo, Japurá, Negro, lower Orinoco, upper Orinoco, Apure, Atl. Coastal Drainages of Col. Ven. |
| <i>Copella nattereri</i> | | Tapajós, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, upper Orinoco |
| <i>Copella vilmae</i> * | | Endemic – Amazonas main channel |
| <i>Lebiasina bimaculata</i> * | | Endemic – Marañon |
| <i>Lebiasina elongata</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá |
| <i>Lebiasina erythrinoides</i> | | Japurá, upper Orinoco, Apure, Maracaibo |
| <i>Lebiasina intermedia</i> ** | | |
| <i>Lebiasina marilynae</i> * | | Endemic – Iriri |
| <i>Lebiasina melanoguttata</i> * | | Iriri, Teles Pires |
| <i>Lebiasina minuta</i> * | | Endemic – Iriri |
| <i>Lebiasina yepezi</i> | | Negro, Branco, upper Orinoco |
| <i>Nannostomus beckfordi</i> | | Tapajós, Amazonas main channel, Gurupi-Turiação, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Nannostomus bifasciatus</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca |
| <i>Nannostomus britskii</i> * | | Tapajós, Jamaxim, Madeira Shield Tributaries, Urubu-Uatumã, Amazonas main channel |
| <i>Nannostomus digrammus</i> | | Tapajós, Mamoré, Guaporé, middle-lower Madeira, Purus, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Nannostomus eques</i> | | Lower Tocantins, lower Xingu, Tapajós, middle-lower Madeira, Purus, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Nannostomus grandis</i> ** | | |
| <i>Nannostomus harrisoni</i> | | Guaporé, Putumayo, Branco, Trombetas, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Nannostomus limatus</i> * | | Endemic – Amazonas main channel |
| <i>Nannostomus marginatus</i> | | Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Nannostomus marilynae</i> | | Madeira Shield Tributaries, Negro, upper Orinoco |
| <i>Nannostomus mortenthaleri</i> * | | Endemic – Marañon |
| <i>Nannostomus nitidus</i> | | Amazonas Estuary, Capim |
| <i>Nannostomus rubrocaudatus</i> ** | | |
| <i>Nannostomus trifasciatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Amazonas main channel, Capim, Essequibo, upper Orinoco |

| Taxon | Species | Occurrence |
|-------------------------|----------------------------------|--|
| | <i>Nannostomus unifasciatus</i> | Lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| | <i>Pyrrhulina australis</i> | Araguaia, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Jari, Amazonas main channel, Paraná-Paraguay |
| | <i>Pyrrhulina beni</i> * | Beni-Madre de Dios |
| | <i>Pyrrhulina brevis</i> | Mamoré, Guaporé, Beni-Madre de Dios, Putumayo, Negro, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco |
| | <i>Pyrrhulina eleanorae</i> | Ucayali, Napo-Ambyiacu, upper Orinoco |
| | <i>Pyrrhulina elongata</i> * | Tapajós |
| | <i>Pyrrhulina filamentosa</i> | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| | <i>Pyrrhulina laeta</i> * | Putumayo, Amazonas main channel |
| | <i>Pyrrhulina lugubris</i> | Japurá, lower Orinoco, upper Orinoco, Apure |
| | <i>Pyrrhulina marilynae</i> * | Iriri, Teles Pires, Juruena, Tapajós |
| | <i>Pyrrhulina maxima</i> * | Amazonas main channel |
| | <i>Pyrrhulina melanostomus</i> * | Mamoré, Beni-Madre de Dios |
| | <i>Pyrrhulina obermulleri</i> * | Amazonas main channel |
| | <i>Pyrrhulina rachoviana</i> ** | |
| | <i>Pyrrhulina semifasciata</i> * | Purus, Juruá, Negro, Branco, Amazonas main channel, Amazonas Estuary |
| | <i>Pyrrhulina spilota</i> * | Mamoré, Guaporé |
| | <i>Pyrrhulina stoli</i> | Japurá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| | <i>Pyrrhulina vittata</i> * | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel |
| | <i>Pyrrhulina zigzag</i> * | Ucayali |
| Parodontidae | 10 | |
| | <i>Apareiodon argenteus</i> * | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| | <i>Apareiodon cavalcante</i> * | Endemic – upper Tocantins |
| | <i>Apareiodon machrisi</i> | Upper Tocantins, Araguaia, lower Tocantins, Parnaíba |
| | <i>Apareiodon tigrinus</i> * | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| | <i>Parodon bifasciatus</i> | Branco, Essequibo |
| | <i>Parodon buckleyi</i> * | Teles Pires, Juruena, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Jari |
| | <i>Parodon carrikeri</i> | Mamoré, Beni-Madre de Dios, Paraná-Paraguay |
| | <i>Parodon guyanensis</i> | Curuá-Paru do Oeste, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| | <i>Parodon nasus</i> | Beni-Madre de Dios, Branco, Paraná-Paraguay |
| | <i>Parodon pongoensis</i> * | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Amazonas main channel |
| Prochilodontidae | 8 | |
| | <i>Prochilodus britskii</i> * | Endemic – Juruena |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Prochilodus mariae</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Prochilodus nigricans</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Trombetas, Jari, Amazonas main channel, Amazonas Estuary |
| <i>Prochilodus rubrotaeniatus</i> * | | Japurá, Negro, Branco, Trombetas, Amazonas main channel, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Semaprochilodus brama</i> * | | Araguaia, lower Tocantins, upper Xingu, lower Xingu |
| <i>Semaprochilodus insignis</i> | | Lower Xingu, Juruena, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Purus, Coari-Urucu, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Essequibo, upper Orinoco |
| <i>Semaprochilodus kneri</i> | | Japurá, lower Orinoco, upper Orinoco, Apure |
| <i>Semaprochilodus taeniurus</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Japurá, Negro, Branco, Trombetas, Amazonas main channel |
| Serrasalmidae | 72 | |
| <i>Acnodon normani</i> * | | Upper Tocantins, lower Tocantins, upper Xingu, Iriri, lower Xingu |
| <i>Acnodon oligacanthus</i> | | Upper Tocantins, lower Tocantins, Maroni-Approuague, Coppename-Suriname-Saramacca |
| <i>Acnodon senai</i> * | | Endemic – Jari |
| <i>Catopryon mento</i> | | Araguaia, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Colossoma macropomum</i> | | Lower Tocantins, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Metynniss altidorsalis</i> * | | Tapajós, middle-lower Madeira, Juruá, Ucayali, Marañon-Nanay, Negro, Branco, Trombetas, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Metynniss anisurus</i> * | | Araguaia, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Jari |
| <i>Metynniss cuiaba</i> | | Araguaia, Mamoré, Guaporé, middle-lower Madeira, Capim |
| <i>Metynniss fasciatus</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, Amazonas main channel, Capim |
| <i>Metynniss guaporensis</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Marañon-Nanay, Negro, Urubu-Uatumã, Amazonas main channel, Capim, lower Orinoco, upper Orinoco, Apure |
| <i>Metynniss hypsauchen</i> | | Teles Pires, Tapajós, middle-lower Madeira, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Metynniss lippincottianus</i> | | Araguaia, lower Tocantins, Teles Pires, Mamoré, Guaporé, middle-lower Madeira, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, lower Orinoco, Paraná-Paraguay |
| <i>Metynniss longipinnis</i> | | Purus, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Metynniss luna</i> | | Araguaia, lower Tocantins, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Putumayo, Japurá, Branco, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|--|
| <i>Metynnis maculatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Marañon-Nanay, Putumayo, Negro, Branco, Trombetas, Essequibo, lower Orinoco, upper Orinoco, Paraná-Paraguay |
| <i>Metynnis melanogrammus</i> | | Madeira Shield Tributaries, Negro, Branco, Urubu-Uatumã, Trombetas, upper Orinoco |
| <i>Mylesinus paraschomburgkii</i> | | Urubu-Uatumã, Trombetas, Jari, Araguaia-Macari-Amapá |
| <i>Mylesinus paucisquamatus*</i> | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Myleus pachyodus*</i> | | Restricted to Tapajós basin (Teles Pires, Jamanxim) |
| <i>Myleus rhomboidalis</i> | | Upper Xingu, Putumayo, Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Myleus setiger</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Myleus torquatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, middle-lower Madeira, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Myloplus arnoldi*</i> | | Araguaia, upper Xingu, Teles Pires, Branco |
| <i>Myloplus asterias</i> | | Upper Tocantins, lower Tocantins, Teles Pires, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Branco, Parnaíba, lower Orinoco, upper Orinoco |
| <i>Myloplus lobatus*</i> | | Mamoré, middle-lower Madeira, Branco |
| <i>Myloplus lucienae*</i> | | Endemic – Negro |
| <i>Myloplus rubripinnis</i> | | Jari, Araguaia-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Myloplus schomburgkii</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Madeira Shield Tributaries, Marañon-Nanay, Putumayo, Japurá, Negro, Trombetas, lower Orinoco, upper Orinoco, Apure |
| <i>Myloplus zorroi*</i> | | Endemic – Madeira Shield Tributaries |
| <i>Mylossoma albiscopum</i> | | Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco |
| <i>Mylossoma aureum*</i> | | Mamoré, middle-lower Madeira, Purus, Juruá, Amazonas main channel |
| <i>Mylossoma unimaculatum*</i> | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Ossubtus xinguense*</i> | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Piaractus brachypomus</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Putumayo, Japurá, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Pristobrycon aureus</i> | | Upper Xingu, Putumayo, Japurá, Corentyne-Demerara, Essequibo |
| <i>Pristobrycon calmoni</i> | | Lower Tocantins, Putumayo, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Pristobrycon careospinus</i> | | Putumayo, Japurá, upper Orinoco |
| <i>Pristobrycon maculipinnis</i> | | Japurá, upper Orinoco |
| <i>Pristobrycon striolatus</i> | | Upper Xingu, Madeira Shield Tributaries, Putumayo, Japurá, Negro, Branco, Trombetas, Maroni-Approuague, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|---------------------------------|---------|---|
| <i>Pygocentrus nattereri</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Essequibo, Paraná-Paraguay |
| <i>Pygopristis denticulata</i> | | Lower Tocantins, Guaporé, Branco, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, Upper Orinoco, Apure |
| <i>Serrasalmus altispinis</i> * | | Endemic – Branco |
| <i>Serrasalmus altuvei</i> | | Japurá, Negro, Branco, lower Orinoco, upper Orinoco, Apure |
| <i>Serrasalmus compressus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel |
| <i>Serrasalmus eigenmanni</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Corentyne-Demerara, Essequibo |
| <i>Serrasalmus elongatus</i> | | Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Serrasalmus geryi</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Serrasalmus gibbus</i> * | | Araguaia, lower Tocantins, Trombetas |
| <i>Serrasalmus gouldingi</i> | | Putumayo, Negro, Branco, upper Orinoco |
| <i>Serrasalmus hastatus</i> * | | Negro, Branco, Amazonas main channel |
| <i>Serrasalmus hollandi</i> * | | Upper Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Trombetas, Amazonas main channel |
| <i>Serrasalmus humeralis</i> * | | Araguaia, upper Xingu, Iriri, lower Xingu, Madeira Shield Tributaries, Putumayo, Japurá, Amazonas main channel |
| <i>Serrasalmus irritans</i> | | Putumayo, lower Orinoco, upper Orinoco, Apure |
| <i>Serrasalmus maculatus</i> | | Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Urubu-Uatumã, Amazonas main channel, Araguari-Macari-Amapá, Oiapoque, Paraná-Paraguay |
| <i>Serrasalmus manuei</i> | | Upper Xingu, lower Xingu, Teles Pires, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Urubu-Uatumã, upper Orinoco |
| <i>Serrasalmus marginatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Serrasalmus medinai</i> | | Japurá, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Serrasalmus nigricans</i> ** | | |
| <i>Serrasalmus odyssei</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Serrasalmus rhombeus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Serrasalmus sanchezi</i> * | | Ucayali, Japurá |
| <i>Serrasalmus serrulatus</i> | | Lower Tocantins, upper Xingu, lower Xingu, Juruá, Branco, Corentyne-Demerara, Essequibo |
| <i>Serrasalmus spilopleura</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu |

| Taxon | Species | Occurrence |
|--|---------|--|
| <i>Tometes ancylorhynchus</i> * | | Araguaia, lower Tocantins, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Putumayo, Japurá, Trombetas, Amazonas main channel, Paraná-Paraguay |
| <i>Tometes camunani</i> * | | Endemic – Trombetas |
| <i>Tometes kranponhah</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Tometes makue</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Tometes siderocarajensis</i> * | | Endemic – lower Tocantins |
| <i>Tometes trilobatus</i> | | Jari, Araguari-Macari-Amapá, Oiapoque |
| <i>Utiaritchthys esguiceroi</i> * | | Endemic – Juruena |
| <i>Utiaritchthys longidorsalis</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Utiaritchthys sennaebraigai</i> * | | Juruena, Guaporé, Paraná-Paraguay |
| Tarumaniidae | 1 | |
| <i>Tarumania walkerae</i> * | | Endemic – Negro |
| Siluriformes | 956 | |
| Aspredinidae | 23 | |
| <i>Amaralia hypsiura</i> | | Lower Tocantins, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, middle-lower Madeira, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Essequibo |
| <i>Aspredo aspredo</i> | | Trombetas, Parnaíba, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Bunocephalus aleuropsis</i> | | Upper Tocantins, Araguaia, upper Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Japurá, Negro, Amazonas main channel, upper Orinoco, Apure |
| <i>Bunocephalus amaurus</i> * | | Branco, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Bunocephalus coracoideus</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo |
| <i>Bunocephalus knerii</i> * | | Iriri, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro |
| <i>Bunocephalus verrucosus</i> | | Tapajós, Purus, Tefé, Juruá, Ucayali, Putumayo, Branco, Amazonas main channel, Maroni-Approuague, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Ernstichthys intonsus</i> * | | Endemic – Napo-Ambyiacu |
| <i>Ernstichthys megistus</i> * | | Endemic – Marañon |
| <i>Hoplomyzon atrizona</i> | | Branco, Maracaibo |
| <i>Hoplomyzon papillatus</i> | | Mamoré, Napo-Ambyiacu, Apure |
| <i>Micromyzon akamai</i> * | | Middle-lower Madeira, Amazonas main channel, Amazonas Estuary |
| <i>Platystacus cotylephorus</i> | | Upper Xingu, lower Xingu, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Pseudobunocephalus amazonicus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Amazonas main channel |
| <i>Pseudobunocephalus bifidus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Amazonas main channel |
| <i>Pseudobunocephalus iheringii</i> | | Guaporé, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|--|---------|--|
| <i>Pseudobunocephalus quadriradiatus</i> * | | Endemic – Ucayali |
| <i>Pterobunocephalus depressus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Napo-Ambyiacu, Negro, Trombetas, Amazonas main channel |
| <i>Pterobunocephalus dolichurus</i> * | | Marañon-Nanay, Negro, Trombetas, Amazonas main channel |
| <i>Xylophius anachoretetes</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Xylophius lepturus</i> | | Beni-Madre de Dios, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, upper Orinoco, Apure |
| <i>Xylophius melanopterus</i> | | Beni-Madre de Dios, middle-lower Madeira, Purus, Marañon-Nanay, Napo-Ambyiacu, Putumayo, upper Orinoco, Apure |
| <i>Xylophius sofiae</i> * | | Endemic – Amazonas main channel |
| Astroblepidae | 17 | |
| <i>Astroblepus boulengeri</i> ** | | |
| <i>Astroblepus caquetae</i> * | | Endemic – Japurá |
| <i>Astroblepus festae</i> * | | Endemic – Marañon |
| <i>Astroblepus formosus</i> * | | Endemic – Ucayali |
| <i>Astroblepus labialis</i> * | | Endemic – Marañon |
| <i>Astroblepus longiceps</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Astroblepus longifilis</i> | | Marañon-Nanay, Cauca-Magdalena-Sinu |
| <i>Astroblepus mancoi</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Astroblepus peruanus</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Astroblepus pholeter</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Astroblepus praeliorum</i> * | | Endemic – Marañon |
| <i>Astroblepus prenadillus</i> * | | Endemic – Marañon |
| <i>Astroblepus sabalo</i> * | | Endemic – Ucayali |
| <i>Astroblepus supramollis</i> * | | Ucayali, Marañon-Nanay |
| <i>Astroblepus taczanowskii</i> * | | Endemic – Ucayali |
| <i>Astroblepus theresiae</i> * | | Endemic – Marañon |
| <i>Astroblepus vanceae</i> * | | Endemic – Ucayali |
| Auchenipteridae | 79 | |
| <i>Ageineiosus akamai</i> * | | Purus, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Ageineiosus apiaka</i> * | | Endemic – Teles Pires |
| <i>Ageineiosus dentatus</i> | | Araguaia, lower Tocantins, Tapajós, Mamoré, Purus, Negro, Trombetas, Amazonas main channel, Amazonas Estuary, Parnaíba, Araguari-Macari-Amapá, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Ageineiosus inermis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Ageineiosus intrusus</i> | | Beni-Madre de Dios, middle-lower Madeira, Purus, Negro, Trombetas, Amazonas main channel, Capim, Essequibo |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|--|
| <i>Ageneiosus lineatus</i> | | Lower Tocantins, lower Xingu, middle-lower Madeira, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Ageneiosus polystictus</i> * | | Negro, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Ageneiosus ucayalensis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Ageneiosus uranophthalmus</i> * | | Mamoré, middle-lower Madeira, Purus, Ucayali, Negro, Urubu-Uatumã, Amazonas main channel |
| <i>Ageneiosus vittatus</i> | | Lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Trombetas, Amazonas main channel, lower Orinoco, Apure |
| <i>Asterophysus batrachus</i> | | Negro, Urubu-Uatumã, lower Orinoco, upper Orinoco, Apure |
| <i>Auchenipterichthys coracoideus</i> | | Araguaia, lower Tocantins, Mamoré, middle-lower Madeira, Ucayali, Marañon-Nanay, Branco, Amazonas main channel, Essequibo |
| <i>Auchenipterichthys longimanus</i> | | Araguaia, lower Tocantins, Iri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Auchenipterichthys punctatus</i> | | Negro, Branco, Urubu-Uatumã, Amazonas main channel, upper Orinoco |
| <i>Auchenipterichthys thoracatus</i> | | Lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Amazonas main channel, upper Orinoco |
| <i>Auchenipterus ambyiacus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Marañon-Nanay, Napo-Ambyiacu, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Auchenipterus brachyurus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Urubu-Uatumã, Amazonas main channel |
| <i>Auchenipterus britskii</i> * | | Mamoré, middle-lower Madeira, Purus, Juruá, Amazonas main channel |
| <i>Auchenipterus demerarae</i> | | Branco, Amazonas main channel, Corentyne-Demerara, Essequibo |
| <i>Auchenipterus fordicei</i> * | | Endemic – Amazonas main channel |
| <i>Auchenipterus nigripinnis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Auchenipterus nuchalis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Auchenipterus osteomystax</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Tapajós, Trombetas, Amazonas main channel, Paraná-Paraguay |
| <i>Centromochlus altae</i> * | | Middle-lower Madeira, Japurá |
| <i>Centromochlus existimatus</i> * | | Madeira Shield Tributaries, Ucayali, Japurá, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Centromochlus heckelii</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Centromochlus macracanthus</i> * | | Endemic – Negro |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Centromochlus meridionalis</i> * | | Endemic – Teles Pires |
| <i>Centromochlus orca</i> * | | Urubu-Uatumã, Trombetas |
| <i>Centromochlus perugiae</i> | | Beni-Madre de Dios, middle-lower Madeira, Ucayali, Napo-Ambyiacu, Negro, Amazonas main channel, Paraná-Paraguay |
| <i>Centromochlus punctatus</i> | | Putumayo, Curuá-Paru do Oeste, Maroni-Approuague, Coppename-Suriname-Saramacca, Apure |
| <i>Centromochlus reticulatus</i> | | Purus, Branco, Amazonas main channel, Essequibo |
| <i>Centromochlus schultzi</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Jari, Essequibo |
| <i>Centromochlus simplex</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu |
| <i>Entomocorus benjamini</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Entomocorus melaphareus</i> * | | Endemic – Amazonas main channel |
| <i>Epapterus dispilurus</i> | | Mamoré, Guaporé, middle-lower Madeira, Juruá, Ucayali, Putumayo, Amazonas main channel, Paraná-Paraguay |
| <i>Gelanoglanis nanonocticolus</i> | | Negro, upper Orinoco |
| <i>Gelanoglanis pan</i> * | | Endemic – Teles Pires |
| <i>Gelanoglanis travieso</i> * | | Endemic – Marañon |
| <i>Gelanoglanis varii</i> * | | Endemic – upper Tocantins |
| <i>Glanidium leopardum</i> | | Branco, Maroni-Approuague, Essequibo |
| <i>Liosomadoras morrowi</i> * | | Purus, Jutá, Ucayali, Putumayo, Japurá, Amazonas main channel |
| <i>Liosomadoras oncinus</i> | | Negro, Branco, upper Orinoco |
| <i>“Parauchenipterus” porosus</i> | | Lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Ucayali, Urubu-Uatumã, Jari, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay |
| <i>Pseudauchenipterus nodosus</i> | | Lower Tocantins, Amazonas Estuary, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Pseudepapterus cucuhyensis</i> * | | Lower Xingu, Purus, Negro, Trombetas, Amazonas main channel |
| <i>Pseudepapterus hasemani</i> * | | Middle-lower Madeira, Purus, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Spinipterus acsi</i> * | | Endemic – Marañon |
| <i>Tatia aulopygia</i> | | Araguaia, lower Tocantins, upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, Apure |
| <i>Tatia brunnea</i> | | Negro, Branco, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca |
| <i>Tatia caxiuanensis</i> * | | Endemic – Amazonas Estuary |
| <i>Tatia dunni</i> * | | Purus, Napo-Ambyiacu, Japurá |
| <i>Tatia gyrina</i> | | Middle-lower Madeira, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Tatia intermedia</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Guaporé, Negro, Branco, Trombetas, Jari, Amazonas main channel, Capim, Araguari-Macari-Amapá, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Tatia melanoleuca</i> * | | Endemic – Teles Pires |
| <i>Tatia musaica</i> | | Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Tatia nigra</i> * | | Negro, Trombetas |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|--|
| <i>Tatia strigata</i> | | Negro, Amazonas main channel, upper Orinoco |
| <i>Tetranematchthys barthemi</i> * | | Endemic – Jari |
| <i>Tetranematchthys quadrifilis</i> | | Mamoré, Guaporé, middle-lower Madeira, Trombetas, lower Orinoco, upper Orinoco, Apure |
| <i>Tetranematchthys wallacei</i> | | Lower Tocantins, lower Xingu, Tapajós, Ucayali, Negro, Urubu-Uatumã, Amazonas main channel, Capim, upper Orinoco |
| <i>Tocantinsia piresi</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriiri, lower Xingu, Teles Pires, Jari |
| <i>Trachelyichthys decaradiatus</i> | | Amazonas main channel, Essequibo |
| <i>Trachelyichthys exilis</i> * | | Endemic – Marañon |
| <i>Trachelyopterichthys taeniatus</i> | | Guaporé, middle-lower Madeira, Purus, Javari, Negro, Branco, Urubu-Uatumã, Amazonas main channel, upper Orinoco |
| <i>Trachelyopterus breviparbis</i> ** | | |
| <i>Trachelyopterus ceratophysus</i> | | Upper Xingu, Guaporé, Beni-Madre de Dios, Negro, Branco, Trombetas, Essequibo |
| <i>Trachelyopterus coriaceus</i> | | Araguaia, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, Jari, Amazonas main channel, Amazonas Estuary, Oiapoque, Paraná-Paraguay |
| <i>Trachelyopterus isacanthus</i> ** | | |
| <i>Trachelyopterus galeatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamaxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Napo-Ambiyacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Gurupi-Turiação, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Trachycorystes menezesi</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Trachycorystes trachycorystes</i> | | Araguaia, upper Xingu, middle-lower Madeira, Purus, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Tympanopleura atronasus</i> * | | Mamoré, Guaporé, middle-lower Madeira, Purus, Juruá, Ucayali, Negro, Branco, Jari, Amazonas main channel |
| <i>Tympanopleura brevis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Marañon-Nanay, Putumayo, Negro, Amazonas main channel |
| <i>Tympanopleura cryptica</i> * | | Middle-lower Madeira, Ucayali, Amazonas main channel |
| <i>Tympanopleura longipinna</i> * | | Purus, Ucayali, Amazonas main channel |
| <i>Tympanopleura piperata</i> | | Middle-lower Madeira, Jutáí, Japurá, Negro, Branco, Amazonas main channel, Essequibo |
| <i>Tympanopleura rondoni</i> * | | Mamoré, Guaporé, middle-lower Madeira, Amazonas main channel |
| Callichthyidae | 133 | |
| <i>Aspidoras albater</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Aspidoras belenos</i> * | | Endemic – Araguaia |
| <i>Aspidoras brunneus</i> * | | Endemic – Araguaia |
| <i>Aspidoras eurycephalus</i> * | | Endemic – upper Tocantins |
| <i>Aspidoras gabrieli</i> * | | Endemic – lower Tocantins |
| <i>Aspidoras marianae</i> * | | Endemic – Iriiri |
| <i>Aspidoras mephisto</i> * | | Endemic – upper Tocantins |

| Taxon | Species | Occurrence |
|----------------------------------|---------|---|
| <i>Aspidoras microgalaesus*</i> | | Endemic – upper Xingu |
| <i>Aspidoras pauciradiatus*</i> | | Endemic – Negro |
| <i>Aspidoras poecilus*</i> | | Upper Tocantins, Araguaia, upper Xingu |
| <i>Aspidoras velites*</i> | | Endemic – Araguaia |
| <i>Callichthys callichthys</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Paru, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Callichthys serralabium</i> | | Negro, upper Orinoco |
| <i>Corydoras acrensis*</i> | | Endemic – Juruá |
| <i>Corydoras acutus*</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel |
| <i>Corydoras adolfoi*</i> | | Endemic – Negro |
| <i>Corydoras aeneus*</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Maroni-Approuague, Coppename-Suriname-Saramacca, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Corydoras agassizii*</i> | | Putumayo, Amazonas main channel |
| <i>Corydoras albolineatus*</i> | | Endemic – Guaporé |
| <i>Corydoras amandajanea*</i> | | Endemic – Negro |
| <i>Corydoras ambiacus*</i> | | Napo-Ambyiacu, Amazonas main channel |
| <i>Corydoras amphibelus*</i> | | Endemic – Napo-Ambyiacu |
| <i>Corydoras apiaka*</i> | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Corydoras araguaiaensis*</i> | | Endemic – Araguaia |
| <i>Corydoras arcuatus*</i> | | Putumayo, Japurá, Negro, Amazonas main channel |
| <i>Corydoras armatus*</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay |
| <i>Corydoras atropersonatus*</i> | | Endemic – Marañon |
| <i>Corydoras aurofrenatus</i> | | Mamoré, Paraná-Paraguay |
| <i>Corydoras baderi</i> | | Curuá-Paru do Oeste, Maroni-Approuague, Corentyne-Demerara |
| <i>Corydoras benattii*</i> | | Upper Xingu, lower Xingu, Teles Pires |
| <i>Corydoras bifasciatus*</i> | | Endemic – Teles Pires |
| <i>Corydoras bilineatus*</i> | | Endemic – Mamoré |
| <i>Corydoras blochi</i> | | Branco, Amazonas main channel, Essequibo, lower Orinoco, Apure |
| <i>Corydoras bondi</i> | | Branco, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Corydoras brittoi*</i> | | Endemic – Madeira Shield Tributaries |
| <i>Corydoras britskii</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Corydoras burgessi*</i> | | Endemic – Negro |
| <i>Corydoras caudimaculatus*</i> | | Restricted to Madeira basin (Guaporé, middle-lower Madeira) |
| <i>Corydoras cervinus*</i> | | Restricted to Madeira basin (Guaporé, middle-lower Madeira) |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|---|
| <i>Corydoras cochui</i> * | | Endemic – Araguaia |
| <i>Corydoras copei</i> * | | Endemic – Marañon |
| <i>Corydoras coriatae</i> * | | Endemic – Ucayali |
| <i>Corydoras crimmeni</i> * | | Endemic – Branco |
| <i>Corydoras cruziensis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Corydoras crypticus</i> * | | Endemic – Negro |
| <i>Corydoras davidsandsi</i> * | | Endemic – Negro |
| <i>Corydoras desana</i> * | | Endemic – Negro |
| <i>Corydoras duplicareus</i> * | | Endemic – Negro |
| <i>Corydoras elegans</i> * | | Mamoré, Putumayo, Japurá, Amazonas main channel |
| <i>Corydoras eques</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras evelynae</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras eversi</i> * | | Endemic – Araguaia |
| <i>Corydoras fowleri</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras geryi</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Corydoras gomezi</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras gossei</i> * | | Endemic – Mamoré |
| <i>Corydoras gracilis</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Corydoras guapore</i> * | | Endemic – Guaporé |
| <i>Corydoras haraldschultzi</i> * | | Endemic – Guaporé |
| <i>Corydoras hastatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Paraná-Paraguay |
| <i>Corydoras hephaestus</i> * | | Juruena, Madeira Shield Tributaries |
| <i>Corydoras imitator</i> * | | Endemic – Negro |
| <i>Corydoras incolicana</i> * | | Endemic – Negro |
| <i>Corydoras isbrueckeri</i> * | | Endemic – Guaporé |
| <i>Corydoras julii</i> | | Lower Tocantins, Parnaíba |
| <i>Corydoras kanei</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Corydoras knaacki</i> * | | Endemic – Beni-Madre de Dios |
| <i>Corydoras lamberti</i> * | | Endemic – Marañon |
| <i>Corydoras latus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Corydoras leopardus</i> ** | | |
| <i>Corydoras leucomelas</i> * | | Marañon-Nanay, Putumayo, Japurá, Amazonas main channel |
| <i>Corydoras loretoensis</i> * | | Endemic – Marañon |
| <i>Corydoras maculifer</i> * | | Endemic – Araguaia |
| <i>Corydoras mamore</i> * | | Endemic – Mamoré |
| <i>Corydoras melanistius</i> | | Branco, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Corydoras melini</i> | | Japurá, Negro, upper Orinoco |

| Taxon | Species | Occurrence |
|----------------------------------|---------|---|
| <i>Corydoras multiradiatus</i> * | | Endemic – Napo-Ambyiacu |
| <i>Corydoras napoensis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Napo-Ambyiacu, Amazonas main channel |
| <i>Corydoras narcissus</i> * | | Endemic – Purus |
| <i>Corydoras negro</i> * | | Endemic – Branco |
| <i>Corydoras nijsseni</i> * | | Endemic – Negro |
| <i>Corydoras noelkempffi</i> * | | Endemic – Guaporé |
| <i>Corydoras ornatus</i> * | | Endemic – Tapajós |
| <i>Corydoras orphnopterus</i> * | | Endemic – Marañon |
| <i>Corydoras osteocarus</i> | | Branco, lower Orinoco, upper Orinoco, Apure |
| <i>Corydoras ourastigma</i> * | | Endemic – Purus |
| <i>Corydoras panda</i> * | | Endemic – Ucayali |
| <i>Corydoras pantanalensis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Corydoras paragua</i> * | | Endemic – Guaporé |
| <i>Corydoras parallelus</i> * | | Endemic – Negro |
| <i>Corydoras pastazensis</i> * | | Marañon-Nanay, Putumayo, Amazonas main channel |
| <i>Corydoras paucerna</i> * | | Endemic – Guaporé |
| <i>Corydoras pavanelliae</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Corydoras pinheiroi</i> ** | | |
| <i>Corydoras polystictus</i> | | Guaporé, Paraná-Paraguay |
| <i>Corydoras potaroensis</i> | | Negro, Branco, Essequibo |
| <i>Corydoras pulcher</i> * | | Endemic – Purus |
| <i>Corydoras pygmaeus</i> * | | Middle-lower Madeira, Amazonas main channel |
| <i>Corydoras rabauti</i> * | | Javari, Putumayo, Negro, Amazonas main channel |
| <i>Corydoras reticulatus</i> * | | Japurá, Amazonas main channel |
| <i>Corydoras reynoldsi</i> * | | Endemic – Japurá |
| <i>Corydoras robineae</i> * | | Endemic – Negro |
| <i>Corydoras robustus</i> * | | Endemic – Purus |
| <i>Corydoras sararensis</i> * | | Endemic – Guaporé |
| <i>Corydoras schwartzi</i> * | | Endemic – Purus |
| <i>Corydoras semiaquilus</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras serratus</i> * | | Endemic – Negro |
| <i>Corydoras seussi</i> * | | Endemic – Mamoré |
| <i>Corydoras similis</i> * | | Endemic – Middle-lower Madeira |
| <i>Corydoras sipaliwini</i> | | Branco, Maroni-Approuague, Corentyne-Demerara, Essequibo |
| <i>Corydoras sodalis</i> * | | Endemic – Amazonas main channel |
| <i>Corydoras spectabilis</i> * | | Endemic – Guaporé |
| <i>Corydoras splendens</i> * | | Araguaia, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Putumayo, Japurá, Amazonas main channel |

| Taxon | Species | Occurrence |
|---|---------|--|
| <i>Corydoras stenocephalus</i> * | | Mamoré, Beni-Madre de Dios, Purus, Juruá, Ucayali |
| <i>Corydoras sterbai</i> * | | Endemic – Guaporé |
| <i>Corydoras sychri</i> * | | Endemic – Marañon |
| <i>Corydoras trilineatus</i> * | | Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Putumayo, Japurá, Amazonas main channel |
| <i>Corydoras tukano</i> * | | Endemic – Negro |
| <i>Corydoras urucu</i> * | | Endemic – Coari-Urucu |
| <i>Corydoras virginiae</i> * | | Endemic – Ucayali |
| <i>Corydoras weitzmani</i> * | | Endemic – Ucayali |
| <i>Corydoras xinguensis</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Corydoras zawadzki</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Corydoras zygatus</i> * | | Juruá, Marañon-Nanay, Amazonas main channel |
| <i>Hoplosternum littorale</i> | | Araguaia, Juruena, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Negro, Amazonas main channel, Amazonas Estuary, Parnaíba, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Atl. Coastal Drainages of Col. Ven., Paraná-Paraguay |
| <i>Dianema longibarbis</i> * | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Ucayali, Marañon-Nanay, Putumayo, Japurá, Jari, Amazonas main channel |
| <i>Dianema urostriatum</i> * | | Middle-lower Madeira, Amazonas main channel |
| <i>Lepthoplosternum altamazonicum</i> * | | Purus, Juruá, Ucayali |
| <i>Lepthoplosternum beni</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Lepthoplosternum stellatum</i> * | | Endemic – Tefé |
| <i>Lepthoplosternum ucamara</i> * | | Ucayali, Japurá, Amazonas main channel |
| <i>Megalechis picta</i> | | Araguaia, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco |
| <i>Megalechis thoracata</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| Cetopsidae | 26 | |
| <i>Cetopsidium ferreirai</i> * | | Urubu-Uatumã, Trombetas |
| <i>Cetopsidium orientale</i> | | Upper Tocantins, Araguaia, middle-lower Madeira, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Cetopsidium pemon</i> | | Negro, Branco, lower Orinoco, upper Orinoco |
| <i>Cetopsidium roae</i> | | Branco, Essequibo |
| <i>Cetopsidium soniae</i> * | | Endemic – Branco |
| <i>Cetopsis arcana</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|---|
| <i>Cetopsis caiapo</i> * | | Endemic – upper Tocantins |
| <i>Cetopsis candiru</i> * | | Upper Tocantins, Araguaia, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Amazonas main channel, Amazonas Estuary |
| <i>Cetopsis coecutiens</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Jari, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure |
| <i>Cetopsis montana</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Cetopsis oliveirai</i> * | | Beni-Madre de Dios, middle-lower Madeira, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Cetopsis parma</i> * | | Middle-lower Madeira, Ucayali, Marañon-Nanay, Negro |
| <i>Cetopsis pearsoni</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Cetopsis plumbea</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu, upper Orinoco |
| <i>Cetopsis sandrae</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Cetopsis sarcodes</i> * | | Endemic – upper Tocantins |
| <i>Cetopsis starnesi</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| <i>Denticetopsis epa</i> * | | Endemic – lower Tocantins |
| <i>Denticetopsis iwokrama</i> | | Branco, Essequibo |
| <i>Denticetopsis macilenta</i> | | Negro, Branco, Essequibo, upper Orinoco, Apure |
| <i>Denticetopsis praecox</i> * | | Negro, Amazonas main channel |
| <i>Denticetopsis royeri</i> * | | Endemic – Negro |
| <i>Denticetopsis sauli</i> * | | Endemic – Negro |
| <i>Denticetopsis seducta</i> * | | Middle-lower Madeira, Napo-Ambyiacu, Putumayo, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Helogenes gouldingi</i> * | | Endemic – Middle-lower Madeira |
| <i>Helogenes marmoratus</i> | | Upper Xingu, Iriiri, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| Doradidae | 73 | |
| <i>Acanthodoras cataphractus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Japurá, Negro, Branco, Urubu-Uatumã, Jari, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Acanthodoras depressus</i> * | | Endemic – Negro |
| <i>Acanthodoras spinosissimus</i> | | Mamoré, Guaporé, middle-lower Madeira, Coari-Urucu, Juruá, Branco, Trombetas, Amazonas main channel, Essequibo, upper Orinoco |
| <i>Agamyxis albomaculatus</i> | | Putumayo, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Agamyxis pectinifrons</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Amazonas main channel |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|---|
| <i>Amblydoras affinis</i> * | | Araguaia, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Ucayali, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Amblydoras monitor</i> ** | | Amazonas main channel |
| <i>Amblydoras nauticus</i> ** | | |
| <i>Anadoras grypus</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Anadoras regani</i> ** | | Japurá, Negro, Amazonas main channel |
| <i>Anadoras weddellii</i> | | Araguaia, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Araguari-Macari-Amapá, Oiapoque, Paraná-Paraguay |
| <i>Anduzedoras oxyrhynchus</i> | | Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Astrodoras asterifrons</i> * | | Lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Jutai, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Centrodoras brachiatus</i> * | | Lower Xingu, middle-lower Madeira, Amazonas main channel, Amazonas Estuary |
| <i>Centrodoras hasemani</i> * | | Endemic – Negro |
| <i>Doras carinatus</i> | | Lower Xingu, Trombetas, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Doras higuchii</i> * | | Upper Xingu, Iriri, lower Xingu, Trombetas, Jari |
| <i>Doras phlyzakion</i> * | | Purus, Juruá, Japurá, Negro, Branco, Amazonas main channel |
| <i>Doras zuanoni</i> * | | Endemic – Araguaia |
| <i>Hassar gabiru</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Hassar orestis</i> | | Araguaia, lower Xingu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Hassar shewellkeimi</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Hassar wilderi</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Branco |
| <i>Hemidoras morei</i> * | | Mamoré, Guaporé, Purus, Tefé, Negro, Amazonas main channel |
| <i>Hemidoras morrissi</i> ** | | Middle-lower Madeira, Putumayo, Amazonas main channel |
| <i>Hemidoras stenopeltis</i> * | | Mamoré, Guaporé, middle-lower Madeira, Purus, Japurá, Negro, Branco, Amazonas main channel |
| <i>Hypodoras forficulatus</i> * | | Marañon-Nanay, Putumayo, Amazonas main channel |
| <i>Leptodoras acipenserinus</i> * | | Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Leptodoras cataniai</i> * | | Upper Tocantins, lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Ucayali, Napo-Ambyiacu, Negro, Branco, Amazonas main channel |
| <i>Leptodoras copei</i> | | Negro, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Leptodoras hasemani</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Jamanxim, Negro, Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Leptodoras juruensis</i> * | | Middle-lower Madeira, Putumayo, Amazonas main channel |

| Taxon | Species | Occurrence |
|--------------------------------|---------|---|
| <i>Leptodoras linnelli</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Urubu-Uatumã, Araguari-Macari-Amapá, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Leptodoras marki</i> * | | Endemic – upper Xingu |
| <i>Leptodoras myersi</i> * | | Mamoré, middle-lower Madeira, Amazonas main channel |
| <i>Leptodoras oyakawai</i> * | | Upper Xingu, lower Xingu, Teles Pires, Jamanxim |
| <i>Leptodoras praelongus</i> | | Upper Tocantins, lower Xingu, Teles Pires, Mamoré, middle-lower Madeira, Negro, Branco, Jari, Amazonas main channel, upper Orinoco |
| <i>Lithodoras dorsalis</i> | | Purus, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Megalodoras uranoscopus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Iri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, Apure |
| <i>Nemadoras cristinae</i> | | Beni-Madre de Dios, middle-lower Madeira, Purus, Marañon-Nanay, Amazonas main channel, upper Orinoco |
| <i>Nemadoras elongatus</i> * | | Middle-lower Madeira, Purus, Tefé, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Amazonas main channel |
| <i>Nemadoras hemipeltis</i> * | | Middle-lower Madeira, Ucayali, Urubu-Uatumã, Amazonas main channel |
| <i>Nemadoras humeralis</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Amazonas main channel |
| <i>Opsodoras boulengeri</i> * | | Mamoré, Guaporé, middle-lower Madeira, Trombetas, Amazonas main channel |
| <i>Opsodoras stuebelii</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Japurá, Negro, Amazonas main channel |
| <i>Ossancora asterophysa</i> * | | Tapajós, Mamoré, Guaporé, middle-lower Madeira, Ucayali, Marañon-Nanay, Negro, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Ossancora fimbriata</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Tefé, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Ossancora punctata</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Amazonas main channel, Paraná-Paraguay |
| <i>Oxydoras niger</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Ucayali, Putumayo, Japurá, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Physopyxis ananas</i> | | Anapu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Jutá, Marañon-Nanay, Negro, Branco, Trombetas, Essequibo, upper Orinoco |
| <i>Physopyxis cristata</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Physopyxis lyra</i> * | | Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Negro, Urubu-Uatumã, Amazonas main channel |
| <i>Platydoras armatulus</i> | | Araguaia, lower Tocantins, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Japurá, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Platydoras birindelli</i> * | | Restricted to Xingu basin (upper Xingu, Iri, lower Xingu) |
| <i>Platydoras hancockii</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Negro, Branco, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Pterodoras granulatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Amazonas main channel, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Pterodoras rivasi</i> | | Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Rhinodoras armbrusteri</i> | | Branco, Essequibo |
| <i>Rhinodoras boehlkei</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Negro, Amazonas main channel |
| <i>Rhinodoras dorbignyi</i> | | Upper Tocantins, lower Tocantins, Mamoré, Paraná-Paraguay |
| <i>Rhynchodoras woodsi</i> | | Mamoré, Ucayali, Marañon-Nanay, Negro, Branco, Amazonas main channel, Essequibo |
| <i>Rhynchodoras xingui</i> * | | Lower Tocantins, upper Xingu, lower Xingu |
| <i>Scorpiodoras heckelii</i> | | Tapajós, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Scorpiodoras liophysus</i> * | | Endemic – Middle-lower Madeira |
| <i>Tenellus leporhinus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires, Jamanxim, middle-lower Madeira, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Tenellus ternetzi</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Juruá, Ucayali, Marañon-Nanay, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Tenellus trimaculatus</i> | | Upper Tocantins, lower Tocantins, Teles Pires, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Trachydoras brevis</i> | | Lower Xingu, Tapajós, Mamoré, middle-lower Madeira, Purus, Negro, Branco, Trombetas, Jari, Essequibo |
| <i>Trachydoras gepharti</i> | | Upper Xingu, Jamanxim, Jutá, Negro, Branco, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Trachydoras microstomus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Branco, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Trachydoras nattereri</i> | | Mamoré, Guaporé, middle-lower Madeira, Tefé, Ucayali, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo |
| <i>Trachydoras paraguayensis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Trachydoras steindachneri</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Trombetas, Amazonas main channel |
| Heptapteridae | 87 | |
| <i>Brachyglanis frenata</i> | | Negro, Urubu-Uatumã, Trombetas, Essequibo, upper Orinoco |
| <i>Brachyglanis melas</i> | | Lower Tocantins, Tapajós, Negro, Branco, Essequibo |
| <i>Brachyglanis microphthalmus</i> * | | Endemic – Trombetas |
| <i>Brachyglanis nocturna</i> * | | Endemic – Negro |
| <i>Brachyrhamdia heteropleura</i> | | Branco, Corentyne-Demerara, Essequibo |
| <i>Brachyrhamdia marthae</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali |
| <i>Brachyrhamdia meesi</i> * | | Endemic – Amazonas main channel |
| <i>Brachyrhamdia rambarrani</i> * | | Endemic – Negro |
| <i>Brachyrhamdia thayeria</i> * | | Endemic – Japurá |
| <i>Cetopsorhamdia filamentosa</i> * | | Endemic – Ucayali |
| <i>Cetopsorhamdia iheringi</i> | | Araguaia, Paraná-Paraguay, São Francisco |
| <i>Cetopsorhamdia insidiosa</i> * | | Lower Tocantins, Iriri, lower Xingu, Negro, Branco |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Cetopsorhamdia molinae</i> | | Upper Tocantins, Beni-Madre de Dios, Apure, Cauca-Magdalena-Sinu |
| <i>Cetopsorhamdia orinoco</i> | | Napo-Ambyiacu, lower Orinoco, upper Orinoco, Cauca-Magdalena-Sinu |
| <i>Cetopsorhamdia phantasia</i> * | | Beni-Madre de Dios, middle-lower Madeira, Ucayali, Napo-Ambyiacu, Putumayo |
| <i>Chasmocranus longior</i> | | Upper Tocantins, upper Xingu, lower Xingu, Beni-Madre de Dios, Negro, Branco, Urubu-Uatumã, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Chasmocranus peruanus</i> * | | Endemic – Marañon |
| <i>Chasmocranus quadrizonatus</i> * | | Endemic – Marañon |
| <i>Gladioglanis anacanthus</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Gladioglanis conquistador</i> | | Middle-lower Madeira, Madeira Shield Tributaries, Purus, Napo-Ambyiacu, Putumayo, Negro, Branco, Amazonas main channel, Capim |
| <i>Gladioglanis machadoi</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Goeldiella eques</i> | | Madeira Shield Tributaries, Juruá, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Horiomyzon retropinnatus</i> * | | Middle-lower Madeira, Napo-Ambyiacu |
| <i>Imparfinis borodini</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Imparfinis cochabambae</i> * | | Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Ucayali |
| <i>Imparfinis guttatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Imparfinis hasemani</i> | | Negro, Branco, Jari, Amazonas main channel, Maroni-Approuague, Essequibo |
| <i>Imparfinis longicaudus</i> * | | Endemic – Marañon |
| <i>Imparfinis mirini</i> | | Araguaia, Paraná-Paraguay |
| <i>Imparfinis nemacheir</i> | | Amazonas main channel, Apure, Maracaibo, Cauca-Magdalena-Sinu, Atrato |
| <i>Imparfinis pristos</i> | | Upper Xingu, Negro, Amazonas main channel, upper Orinoco |
| <i>Imparfinis pseudonemacheir</i> | | Ucayali, lower Orinoco, upper Orinoco |
| <i>Imparfinis stictonotus</i> | | Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Paraná-Paraguay |
| <i>Leptorhamdia essequibensis</i> | | Lower Tocantins, Negro, Branco, Urubu-Uatumã, Essequibo |
| <i>Leptorhamdia marmorata</i> | | Negro, upper Orinoco, Apure |
| <i>Leptorhamdia schultzi</i> * | | Upper Xingu, lower Xingu, Teles Pires |
| <i>Mastiglanis asopos</i> | | Araguaia, lower Tocantins, upper Xingu, Iriiri, lower Xingu, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Negro, Branco, Urubu-Uatumã, Amazonas main channel, Capim, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Myoglanis koepckei</i> * | | Middle-lower Madeira, Ucayali, Marañon-Nanay, Negro, Amazonas main channel |
| <i>Nannoglanis fasciatus</i> * | | Napo-Ambyiacu, Japurá |
| <i>Nemuroglanis furcatus</i> * | | Middle-lower Madeira, Madeira Shield Tributaries |
| <i>Nemuroglanis lanceolatus</i> * | | Ucayali, Napo-Ambyiacu, Amazonas main channel |
| <i>Nemuroglanis pauciradiatus</i> | | Negro, Branco, Urubu-Uatumã, Trombetas, upper Orinoco |
| <i>Pariolius armillatus</i> * | | Endemic – Napo-Ambyiacu |
| <i>Phenacorhamdia boliviana</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay |
| <i>Phenacorhamdia nigrolineata</i> * | | Beni-Madre de Dios, Purus, Ucayali |

| Taxon | Species | Occurrence |
|------------------------------------|---|------------|
| <i>Phenacorhamdia somnians</i> * | Endemic – Araguaia | |
| <i>Phreatobius cisternarum</i> | Amazonas Estuary, Araguari-Macari-Amapá | |
| <i>Phreatobius dracunculus</i> * | Restricted to Madeira basin (Guaporé, middle-lower Madeira) | |
| <i>Phreatobius sanguijuela</i> * | Endemic – Guaporé | |
| <i>Pimelodella altipinnis</i> | Upper Xingu, Amazonas main channel, Essequibo | |
| <i>Pimelodella bockmanni</i> * | Endemic – Madeira Shield Tributaries | |
| <i>Pimelodella boliviana</i> * | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) | |
| <i>Pimelodella breviceps</i> * | Endemic – Negro | |
| <i>Pimelodella buckleyi</i> * | Mamoré, Beni-Madre de Dios, Marañon-Nanay, Napo-Ambyiacu | |
| <i>Pimelodella chaparae</i> * | Endemic – Mamoré | |
| <i>Pimelodella conquetaensis</i> * | Endemic – Japurá | |
| <i>Pimelodella cristata</i> | Lower Tocantins, Iriiri, lower Xingu, Putumayo, Japurá, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure | |
| <i>Pimelodella cyanostigma</i> * | Endemic – Napo-Ambyiacu | |
| <i>Pimelodella geryi</i> | Japurá, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara | |
| <i>Pimelodella gracilis</i> | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Putumayo, lower Orinoco, upper Orinoco, Paraná-Paraguay | |
| <i>Pimelodella griffini</i> | Mamoré, Beni-Madre de Dios, Paraná-Paraguay | |
| <i>Pimelodella hartwelli</i> * | Endemic – Ucayali | |
| <i>Pimelodella hasemani</i> * | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Putumayo | |
| <i>Pimelodella howesi</i> * | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) | |
| <i>Pimelodella humeralis</i> * | Endemic – Jari | |
| <i>Pimelodella leptosoma</i> | Branco, Essequibo | |
| <i>Pimelodella megalops</i> | Branco, Maroni-Approuague, Essequibo, lower Orinoco | |
| <i>Pimelodella montana</i> * | Endemic – Marañon | |
| <i>Pimelodella mucosa</i> | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay | |
| <i>Pimelodella nigrofasciata</i> * | Endemic – Beni-Madre de Dios | |
| <i>Pimelodella ophthalmica</i> * | Endemic – Marañon | |
| <i>Pimelodella peruana</i> * | Endemic – Ucayali | |
| <i>Pimelodella peruensis</i> ** | | |
| <i>Pimelodella roccae</i> * | Mamoré, Beni-Madre de Dios, Ucayali | |
| <i>Pimelodella serrata</i> * | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) | |
| <i>Pimelodella spelaea</i> * | Endemic – upper Tocantins | |
| <i>Pimelodella steindachneri</i> * | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel | |
| <i>Rhamdella montana</i> * | Endemic – Ucayali | |
| <i>Rhamdella rusbyi</i> * | Endemic – Beni-Madre de Dios | |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|---|
| <i>Rhamdia foina</i> | | Lower Tocantins, Negro, Branco, Trombetas, Maroni-Approuague, Essequibo |
| <i>Rhamdia humilis</i> | | Japurá, Atl. Coastal Drainages of Col. Ven. |
| <i>Rhamdia itacaiunas*</i> | | Lower Tocantins, upper Xingu |
| <i>Rhamdia laukidi</i> | | Juruena, middle-lower Madeira, Negro, Branco, Urubu-Uatumã, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Rhamdia muelleri</i> | | Upper Tocantins, lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Napo-Ambyiacu, Negro, Trombetas, Capim, Essequibo, lower Orinoco, upper Orinoco |
| <i>Rhamdia parvus*</i> | | Endemic – Marañon |
| <i>Rhamdia poeyi*</i> | | Upper Tocantins, Mamoré, Napo-Ambyiacu |
| <i>Rhamdia quelen</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Maracaibo, Atl. Coastal Drainages of Col. Ven., Cauca-Magdalena-Sinu, Atrato, Paraná-Paraguay |
| Pimelodidae | 60 | |
| <i>Aguarunichthys inpai*</i> | | Middle-lower Madeira, Amazonas main channel |
| <i>Aguarunichthys tocantinsensis*</i> | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Aguarunichthys torosus*</i> | | Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay |
| <i>Brachyplatystoma capapretum</i> | | Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Negro, Urubu-Uatumã, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Brachyplatystoma filamentosum</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Parnaíba, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyplatystoma juruense</i> | | Middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyplatystoma platynemum</i> | | Lower Tocantins, upper Xingu, lower Xingu, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Branco, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyplatystoma rousseauxii</i> | | Lower Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyplatystoma tigrinum*</i> | | Lower Xingu, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Amazonas main channel |
| <i>Brachyplatystoma vaillantii</i> | | Lower Tocantins, lower Xingu, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Calophysus macropterus</i> | | Upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Cheirocerus eques*</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Cheirocerus goeldii*</i> | | Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Branco, Amazonas main channel |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Duopalatinus peruanus</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Trombetas, Amazonas main channel, upper Orinoco, Apure |
| <i>Exaliodontus aguanai</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure |
| <i>Hemisorubim platyrhynchos</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Hypophthalmus edentatus*</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Hypophthalmus fimbriatus</i> | | Lower Xingu, Mamoré, middle-lower Madeira, Japurá, Negro, Trombetas, Amazonas main channel, lower Orinoco |
| <i>Hypophthalmus marginatus*</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco, upper Orinoco, Apure |
| <i>Hypophthalmus oremaculatus</i> | | Middle-lower Madeira, Purus, Juruá, Ucayali, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Leiarius marmoratus</i> | | Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Leiarius pictus</i> | | Teles Pires, Tapajós, Beni-Madre de Dios, middle-lower Madeira, Purus, Putumayo, Japurá, Urubu-Uatumã, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Megalonema platanum</i> | | Mamoré, Guaporé, middle-lower Madeira, Paraná-Paraguay |
| <i>Megalonema platycephalum</i> | | Araguaia, lower Tocantins, lower Xingu, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Megalonema E. amaxanthum</i> | | Upper Tocantins, lower Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Jutai, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro, Branco, Amazonas main channel, Essequibo |
| <i>Phractocephalus hemiliopterus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Tefé, Juruá, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Pimelodina flavipinnis</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Negro, Trombetas, Amazonas main channel, Capim, lower Orinoco, upper Orinoco |
| <i>Pimelodus albofasciatus</i> | | Araguaia, lower Xingu, Teles Pires, middle-lower Madeira, Juruá, Negro, Branco, Trombetas, Jari, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Pimelodus altissimus</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Amazonas main channel, Amazonas Estuary, lower Orinoco, Apure |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Pimelodus blochii</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Cauca-Magdalena-Sinu |
| <i>Pimelodus halisodous</i> * | | Endemic – upper Tocantins |
| <i>Pimelodus jivaro</i> * | | Endemic – Marañon |
| <i>Pimelodus joannis</i> * | | Endemic – upper Tocantins |
| <i>Pimelodus luciae</i> * | | Endemic – lower Tocantins |
| <i>Pimelodus maculatus</i> | | Beni-Madre de Dios, Purus, Juruá, Ucayali, Putumayo, Japurá, Parnaíba, Paraná-Paraguay |
| <i>Pimelodus microstoma</i> | | Branco, Paraná-Paraguay |
| <i>Pimelodus ornatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Pimelodus pictus</i> | | Beni-Madre de Dios, middle-lower Madeira, Javari, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel, upper Orinoco, Apure |
| <i>Pimelodus quadratus</i> * | | Endemic – upper Tocantins |
| <i>Pimelodus speciosus</i> * | | Endemic – upper Tocantins |
| <i>Pimelodus stewarti</i> * | | Endemic – upper Tocantins |
| <i>Pimelodus tetramerus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires, Tapajós |
| <i>Pinirampus pirinampu</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Platynemichthys notatus</i> | | Lower Tocantins, lower Xingu, Teles Pires, Tapajós, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure |
| <i>Platysilurus mucosus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Japurá, Branco, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Platysilurus olallae</i> * | | Endemic – Marañon |
| <i>Platystomatichthys sturio</i> * | | Lower Tocantins, upper Xingu, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary |
| <i>Propimelodus araguayae</i> * | | Endemic – Araguaia |
| <i>Propimelodus caesius</i> | | Lower Tocantins, Mamoré, middle-lower Madeira, Purus, Negro, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Propimelodus eigenmanni</i> | | Lower Tocantins, Negro, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Oiapoque, Maroni-Approuague |
| <i>Pseudoplatystoma punctifer</i> | | Araguaia, Iriri, lower Xingu, Teles Pires, Juruena, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Jutáí, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Negro, Parnaíba, Itapicuru-Mearim |
| <i>Pseudoplatystoma reticulatum</i> | | Negro, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Pseudoplatystoma tigrinum</i> * | | Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Branco, Amazonas main channel |
| <i>Sorubim elongatus</i> | | Lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Sorubim lima</i> | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Sorubim maniradii</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Napo-Ambyiacu, Amazonas main channel |
| <i>Sorubim trionocephalus</i> * | | Upper Xingu, lower Xingu, Teles Pires, Juruena |
| <i>Sorubimichthys planiceps</i> | | Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Zungaro zungaro</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Zungaropsis multimaculatus</i> ** | | |
| Pseudopimelodidae | 16 | |
| <i>Batrochoglanis raninus</i> | | Lower Tocantins, upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco |
| <i>Batrochoglanis villosus</i> | | Lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Juruá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Microglanis lundbergi</i> * | | Endemic – Amazonas main channel |
| <i>Microglanis maculatus</i> * | | Endemic – upper Tocantins |
| <i>Microglanis oliveirai</i> * | | Endemic – Araguaia |
| <i>Microglanis pellopterygius</i> * | | Endemic – Napo-Ambyiacu |
| <i>Microglanis poecilus</i> | | Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Branco, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Microglanis robustus</i> * | | Endemic – lower Tocantins |
| <i>Microglanis secundus</i> | | Branco, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Microglanis xerente</i> * | | Endemic – upper Tocantins |
| <i>Microglanis xylographicus</i> * | | Endemic – Araguaia |
| <i>Microglanis zonatus</i> * | | Endemic – Marañon |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| <i>Pseudopimelodus bufonius</i> | | Upper Tocantins, Araguaia, upper Xingu, Iriri, Teles Pires, Jamanxim, middle-lower Madeira, Negro, Branco, Urubu-Uatumã, Trombetas, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Rhyacoglanis epiblepsis</i> * | | Endemic – Guaporé |
| <i>Rhyacoglanis pulcher</i> * | | Endemic – Marañon |
| <i>Rhyacoglanis seminiger</i> * | | Endemic – Juruena |
| Loricariidae | 361 | |
| <i>Acanthicus adonis</i> * | | Endemic – lower Tocantins |
| <i>Acanthicus hystrix</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, middle-lower Madeira, Purus, Marañon-Nanay, Japurá, Branco, Amazonas main channel, upper Orinoco |
| <i>Acestridium dichromum</i> | | Negro, upper Orinoco |
| <i>Acestridium discus</i> * | | Negro, Branco, Trombetas, Amazonas main channel |
| <i>Acestridium gymnogaster</i> * | | Endemic – Middle-lower Madeira |
| <i>Acestridium martini</i> | | Negro, upper Orinoco |
| <i>Acestridium scutatatum</i> * | | Endemic – Middle-lower Madeira |
| <i>Acestridium triplax</i> * | | Endemic – Tapajós |
| <i>Ancistomus feldbergae</i> * | | Iriri, lower Xingu, Teles Pires |
| <i>Ancistomus micrommatos</i> * | | Endemic – upper Tocantins |
| <i>Ancistomus snethlageae</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena, Tapajós) |
| <i>Ancistomus spilomma</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu |
| <i>Ancistomus spinosissimus</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus aguaboensis</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus alga</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Ancistrus bolivianus</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Ancistrus brevifilis</i> | | Amazonas main channel, upper Orinoco, Apure, Atl. Coastal Drainages of Col. Ven. |
| <i>Ancistrus bufonius</i> * | | Mamoré, Beni-Madre de Dios, Ucayali |
| <i>Ancistrus cryptophthalmus</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus dolichopterus</i> | | Beni-Madre de Dios, Madeira Shield Tributaries, Tefé, Branco, lower Orinoco |
| <i>Ancistrus dubius</i> ** | | |
| <i>Ancistrus heterorhynchus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Ancistrus hoplogeny</i> | | Lower Tocantins, Purus, Branco, Essequibo, upper Orinoco |
| <i>Ancistrus jataiensis</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus jelskii</i> * | | Endemic – Ucayali |
| <i>Ancistrus karajas</i> * | | Endemic – lower Tocantins |
| <i>Ancistrus krenakarore</i> * | | Endemic – Tapajós |
| <i>Ancistrus latifrons</i> | | Marañon-Nanay, upper Orinoco |
| <i>Ancistrus lineolatus</i> * | | Putumayo, Japurá |
| <i>Ancistrus maculatus</i> * | | Amazonas main channel |
| <i>Ancistrus malacops</i> * | | Marañon-Nanay, Napo-Ambyiacu |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Ancistrus maximus</i> * | | Endemic – Branco |
| <i>Ancistrus megalostomus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Ancistrus minutus</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus montanus</i> * | | Restricted to Madeira basin (Guaporé, Beni-Madre de Dios) |
| <i>Ancistrus nudiceps</i> * | | Endemic – Branco |
| <i>Ancistrus occidentalis</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Ancistrus ocloi</i> * | | Endemic – Ucayali |
| <i>Ancistrus parecis</i> * | | Endemic – Juruena |
| <i>Ancistrus ranunculus</i> * | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós |
| <i>Ancistrus reisi</i> * | | Endemic – upper Tocantins |
| <i>Ancistrus shuar</i> * | | Endemic – Marañon |
| <i>Ancistrus stigmaticus</i> * | | Endemic – Araguaia |
| <i>Ancistrus tamboensis</i> * | | Endemic – Ucayali |
| <i>Ancistrus tombador</i> * | | Endemic – Juruena |
| <i>Ancistrus variolus</i> * | | Endemic – Napo-Ambyiacu |
| <i>Ancistrus verecundus</i> * | | Middle-lower Madeira, Madeira Shield Tributaries |
| <i>Andeancistrus eschwartzae</i> * | | Endemic – Marañon |
| <i>Andeancistrus platycephalus</i> * | | Endemic – Marañon |
| <i>Aphanotorulus emarginatus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Aphanotorulus horridus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Amazonas main channel |
| <i>Aphanotorulus phrixosoma</i> * | | Juruá, Ucayali |
| <i>Aphanotorulus rubrocauda</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Aphanotorulus unicolor</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Apistoloricaria condei</i> * | | Napo-Ambyiacu, Putumayo |
| <i>Apistoloricaria laani</i> | | Mamoré, middle-lower Madeira, upper Orinoco |
| <i>Apistoloricaria ommation</i> * | | Mamoré, middle-lower Madeira, Amazonas main channel |
| <i>Aposturisoma myriodon</i> * | | Endemic – Ucayali |
| <i>Araichthys loro</i> * | | Endemic – Juruena |
| <i>Baryancistrus chrysolomus</i> * | | Restricted to Xingu basin (Iriri, lower Xingu) |
| <i>Baryancistrus longipinnis</i> * | | Lower Tocantins, upper Xingu, Tapajós |
| <i>Baryancistrus niveatus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Trombetas |
| <i>Baryancistrus xanthellus</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Chaetostoma anale</i> * | | Endemic – Japurá |
| <i>Chaetostoma branickii</i> * | | Endemic – Marañon |

| Taxon | Species | Occurrence |
|---|--|------------|
| <i>Chaetostoma breve</i> * | Marañon-Nanay, Napo-Ambyiacu | |
| <i>Chaetostoma carrioni</i> * | Endemic – Marañon | |
| <i>Chaetostoma changae</i> * | Endemic – Marañon | |
| <i>Chaetostoma daidalmatos</i> * | Endemic – Marañon | |
| <i>Chaetostoma dermorhynchum</i> * | Marañon-Nanay, Napo-Ambyiacu | |
| <i>Chaetostoma jegui</i> * | Endemic – Branco | |
| <i>Chaetostoma lineopunctatum</i> * | Beni-Madre de Dios, Ucayali | |
| <i>Chaetostoma lobarhynchos</i> * | Endemic – Ucayali | |
| <i>Chaetostoma marcapatae</i> * | Endemic – Beni-Madre de Dios | |
| <i>Chaetostoma marmorescens</i> * | Endemic – Marañon | |
| <i>Chaetostoma microps</i> * | Marañon-Nanay, Napo-Ambyiacu | |
| <i>Chaetostoma platyrhynchus</i> * | Endemic – Japurá | |
| <i>Chaetostoma sericeum</i> * | Endemic – Napo-Ambyiacu | |
| <i>Chaetostoma spondylus</i> * | Endemic – Marañon | |
| <i>Chaetostoma stroupoulos</i> * | Endemic – Marañon | |
| <i>Chaetostoma taczanowskii</i> * | Ucayali, Marañon-Nanay | |
| <i>Chaetostoma trimaculineum</i> * | Endemic – Marañon | |
| <i>Chaetostoma vagum</i> * | Endemic – Japurá | |
| <i>Corumbataia tocantinensis</i> * | Restricted to Tocantins basin (upper Tocantins, Araguaia) | |
| <i>Corumbataia veadeiros</i> * | Endemic – upper Tocantins | |
| <i>Cteniloricaria napova</i> * | Endemic – Curuá-Paru do Oeste | |
| <i>Curculionichthys itaim</i> * | Endemic – Tapajós | |
| <i>Curculionichthys karipuna</i> * | Endemic – Jari | |
| <i>Curculionichthys luteofrenatus</i> * | Restricted to Tapajós basin (Teles Pires, Juruena) | |
| <i>Curculionichthys sabaji</i> * | Restricted to Xingu basin (upper Xingu, Iriri) | |
| <i>Curculionichthys tukana</i> * | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) | |
| <i>Dekeyseria amazonica</i> * | Araguaia, lower Tocantins, lower Xingu, Tapajós, middle-lower Madeira, Juruá, Japurá, Trombetas, Jari, Amazonas main channel | |
| <i>Dekeyseria picta</i> | Negro, upper Orinoco | |
| <i>Dekeyseria scaphirhynchus</i> | Middle-lower Madeira, Purus, Negro, Branco, upper Orinoco | |
| <i>Exastilithoxus fimbriatus</i> | Branco, lower Orinoco | |
| <i>Exastilithoxus hoedemani</i> * | Endemic – Negro | |
| <i>Farlowella acus</i> | Branco, Essequibo, upper Orinoco, Apure, Atl. Coastal Drainages of Col. Ven. | |
| <i>Farlowella altocorpus</i> * | Endemic – Beni-Madre de Dios | |
| <i>Farlowella amazonum</i> | Araguaia, lower Tocantins, lower Xingu, Tapajós, Jamanxim, middle-lower Madeira, Jutai, Putumayo, Negro, Branco, Trombetas, Jari, Amazonas main channel, Gurupi-Turiaçu, Capim, Essequibo, Paraná-Paraguay | |
| <i>Farlowella gianetii</i> * | Endemic – upper Xingu | |
| <i>Farlowella gracilis</i> * | Endemic – Japurá | |
| <i>Farlowella hasemani</i> * | Endemic – Amazonas main channel | |

| Taxon | Species | Occurrence |
|---------------------------------------|---------|--|
| <i>Farlowella henriquei</i> * | | Endemic – Araguaia |
| <i>Farlowella knerii</i> * | | Beni-Madre de Dios, Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Farlowella nattereri</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro, Branco, Amazonas main channel, Amazonas Estuary, Essequibo |
| <i>Farlowella odontotumulus</i> | | Napo-Ambyiacu, upper Orinoco |
| <i>Farlowella oxyrryncha</i> | | Araguaia, Iriiri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Japurá, Negro, Branco, Amazonas main channel, Amazonas Estuary, Gurupi-Turiacu, Capim, lower Orinoco, upper Orinoco, Apure |
| <i>Farlowella platorynchus</i> | | Coari-Urucu, Marañon-Nanay, Napo-Ambyiacu, Branco, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Farlowella reticulata</i> | | Branco, Oiapoque, Maroni-Approuague, Essequibo |
| <i>Farlowella rugosa</i> | | Branco, Maroni-Approuague, Corentyne-Demerara, Essequibo |
| <i>Farlowella schreitmuelleri</i> * | | Negro, Amazonas main channel, Amazonas Estuary |
| <i>Farlowella smithi</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Japurá, Branco, Amazonas main channel |
| <i>Fonchiiloricaria nanodon</i> * | | Endemic – Marañon |
| <i>Furcodontichthys novaesi</i> * | | Tapajós, Purus, Tefé, Juruá, Ucayali, Negro, Trombetas, Amazonas main channel |
| <i>Guyanancistrus brevispinis</i> | | Curuá-Paru do Oeste, Jari, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Gymnotocinclus anosteos</i> * | | Endemic – upper Tocantins |
| <i>Gymnotocinclus canoero</i> * | | Endemic – upper Tocantins |
| <i>Harttia depressa</i> * | | Endemic – Urubu-Uatumã |
| <i>Harttia dissidens</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós, Jamanxim) |
| <i>Harttia duriventris</i> * | | Endemic – lower Tocantins |
| <i>Harttia panara</i> * | | Endemic – Iriiri |
| <i>Harttia punctata</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Harttia rondoni</i> * | | Restricted to Xingu basin (upper Xingu, Iriiri) |
| <i>Harttia trombetensis</i> * | | Endemic – Trombetas |
| <i>Harttia tuna</i> * | | Endemic – Curuá-Paru do Oeste |
| <i>Harttia uatumensis</i> * | | Endemic – Urubu-Uatumã |
| <i>Harttia villasboas</i> * | | Endemic – Iriiri |
| <i>Hemiancistrus cerrado</i> * | | Endemic – Araguaia |
| <i>Hemiancistrus guahiborum</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Hemiancistrus subviridis</i> | | Negro, upper Orinoco |
| <i>Hemiodontichthys acipenserinus</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim, Essequibo, Paraná-Paraguay |
| <i>Hisonotus acuen</i> * | | Endemic – upper Xingu |
| <i>Hisonotus bockmanni</i> * | | Endemic – Teles Pires |
| <i>Hisonotus chromodontus</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Hisonotus jumaorum</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hopliancistrus tricornis</i> * | | Upper Xingu, Iriri, lower Xingu, Tapajós, Jamanxim |
| <i>Hypancistrus inspector</i> | | Negro, upper Orinoco |
| <i>Hypancistrus margaritatus</i> * | | Endemic – Branco |
| <i>Hypancistrus phantasma</i> * | | Endemic – Negro |
| <i>Hypancistrus zebra</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Hypoptopoma baileyi</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Amazonas main channel |
| <i>Hypoptopoma bianale</i> * | | Ucayali, Napo-Ambyiacu |
| <i>Hypoptopoma brevirostratum</i> * | | Endemic – Amazonas main channel |
| <i>Hypoptopoma elongatum</i> * | | Teles Pires, Tapajós, Trombetas |
| <i>Hypoptopoma guianense</i> | | Branco, Corentyne-Demerara, Essequibo |
| <i>Hypoptopoma gulare</i> * | | Araguaia, lower Tocantins, upper Xingu, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel |
| <i>Hypoptopoma incognitum</i> | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim |
| <i>Hypoptopoma inexpectatum</i> | | Upper Xingu, Paraná-Paraguay |
| <i>Hypoptopoma muzuspi</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Hypoptopoma psilogaster</i> * | | Endemic – Marañon |
| <i>Hypoptopoma spectabile</i> | | Purus, Marañon-Nanay, Napo-Ambyiacu, lower Orinoco, upper Orinoco, Apure |
| <i>Hypoptopoma steindachneri</i> | | Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Hypoptopoma sternoptychum</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Napo-Ambyiacu, Amazonas main channel |
| <i>Hypoptopoma thoracatum</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Branco, Amazonas main channel, Essequibo |
| <i>Hypostomus asperatus</i> * | | Endemic – Araguaia |
| <i>Hypostomus atropinnis</i> * | | Endemic – Araguaia |
| <i>Hypostomus bolivianus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Hypostomus carinatus</i> * | | Beni-Madre de Dios, Juruá, Branco, Urubu-Uatumã, Trombetas |
| <i>Hypostomus dardanelos</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Hypostomus delimai</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Hypostomus ericae</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Hypostomus ericius</i> * | | Endemic – Marañon |
| <i>Hypostomus faveolus</i> * | | Upper Tocantins, Araguaia, upper Xingu |
| <i>Hypostomus fonchii</i> * | | Endemic – Ucayali |
| <i>Hypostomus goyazensis</i> * | | Endemic – Araguaia |
| <i>Hypostomus hemicochliodon</i> | | Upper Xingu, Juruena, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Amazonas main channel, upper Orinoco |
| <i>Hypostomus hemiurus</i> | | Branco, Corentyne-Demerara, Essequibo |
| <i>Hypostomus hoplonites</i> * | | Mamoré, Guaporé, middle-lower Madeira, Purus, Amazonas main channel |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Hypostomus kopeyaka</i> * | | Endemic – Negro |
| <i>Hypostomus kuarup</i> * | | Endemic – upper Xingu |
| <i>Hypostomus levis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Hypostomus macushi</i> | | Branco, Essequibo |
| <i>Hypostomus melanepheles</i> * | | Endemic – Tapajós |
| <i>Hypostomus niceforoi</i> * | | Endemic – Japurá |
| <i>Hypostomus oculus</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Branco, Amazonas main channel |
| <i>Hypostomus pantherinus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Hypostomus paucipunctatus</i> * | | Endemic – lower Tocantins |
| <i>Hypostomus pyrineusi</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel, upper Orinoco |
| <i>Hypostomus rondoni</i> * | | Endemic – Teles Pires |
| <i>Hypostomus sculpodon</i> | | Negro, upper Orinoco |
| <i>Hypostomus soniae</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós, Jamanxim) |
| <i>Hypostomus taphorni</i> | | Branco, Corentyne-Demerara, Essequibo |
| <i>Hypostomus varimaculosus</i> * | | Endemic – Japurá |
| <i>Hypostomus weberi</i> * | | Endemic – Negro |
| <i>Lamontichthys avacanoeiro</i> * | | Endemic – upper Tocantins |
| <i>Lamontichthys filamentosus</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Amazonas main channel |
| <i>Lamontichthys parakana</i> * | | Endemic – lower Tocantins |
| <i>Lamontichthys stibarus</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Lasiancistrus heteracanthus</i> * | | Napo-Ambyiacu, Putumayo, Japurá |
| <i>Lasiancistrus schomburgkii</i> | | Lower Tocantins, lower Xingu, Jamanxim, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Branco, Essequibo, upper Orinoco |
| <i>Leporacanthicus galaxias</i> | | Upper Tocantins, Araguaia, lower Tocantins, middle-lower Madeira, lower Orinoco, upper Orinoco |
| <i>Leporacanthicus heterodon</i> * | | Restricted to Xingu basin (upper Xingu, Iriiri, lower Xingu) |
| <i>Leporacanthicus joselimai</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Leptotocinclus ctenistus</i> * | | Coari-Uruçu, Negro, Amazonas main channel |
| <i>Leptotocinclus madeirae</i> * | | Endemic – Middle-lower Madeira |
| <i>Limatulichthys griseus</i> | | Upper Tocantins, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Essequibo, lower Orinoco, upper Orinoco |
| <i>Lithoxus bovallii</i> * | | Branco, Trombetas |
| <i>Lithoxus jariensis</i> * | | Endemic – Jari |
| <i>Lithoxus lithoides</i> | | Branco, Urubu-Uatumã, Trombetas, Corentyne-Demerara, Essequibo |
| <i>Loraxichthys lexa</i> * | | Endemic – Ucayali |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Loricaria birindellii</i> * | | Restricted to Xingu basin (Irirí, lower Xingu) |
| <i>Loricaria cataphracta</i> | | Lower Tocantins, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Loricaria clavipinna</i> * | | Ucayali, Amazonas main channel |
| <i>Loricaria lata</i> * | | Endemic – upper Tocantins |
| <i>Loricaria lundbergi</i> * | | Endemic – Negro |
| <i>Loricaria pumila</i> * | | Lower Tocantins, Amazonas main channel, Amazonas Estuary |
| <i>Loricaria simillima</i> | | Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Branco, Amazonas main channel, upper Orinoco, Atl. Coastal Drainages of Col. Ven., Paraná-Paraguay |
| <i>Loricaria spinulifera</i> * | | Negro, Amazonas main channel |
| <i>Loricariichthys acutus</i> | | Araguaia, lower Xingu, Tapajós, middle-lower Madeira, Purus, Negro, Branco, Trombetas, Amazonas main channel, Itapicuru-Mearim, Essequibo |
| <i>Loricariichthys cashibo</i> ** | | |
| <i>Loricariichthys chanjoo</i> ** | | |
| <i>Loricariichthys hauxwelli</i> * | | Ucayali, Amazonas main channel |
| <i>Loricariichthys maculatus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Loricariichthys nudirostris</i> * | | Lower Tocantins, Tapajós, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Loricariichthys platymetopon</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Jari, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay |
| <i>Loricariichthys stuebelii</i> * | | Guaporé, Purus, Juruá, Ucayali, Marañon-Nanay, Japurá, Amazonas main channel |
| <i>Loricariichthys ucayalensis</i> ** | | |
| <i>Metaloricaria paucidens</i> | | Trombetas, Oiapoque, Maroni-Approuague |
| <i>Microplecostomus forestii</i> * | | Endemic – upper Tocantins |
| <i>Nannoplecostomus eleonora</i> * | | Endemic – upper Tocantins |
| <i>Nannoxyropsis acicula</i> * | | Endemic – Tapajós |
| <i>Neblinichthys pilosus</i> | | Negro, upper Orinoco |
| <i>Niobichthys ferrarisi</i> * | | Endemic – Negro |
| <i>Spectracanthicus punctatissimus</i> * | | Restricted to Xingu basin (upper Xingu, Irirí, lower Xingu) |
| <i>Otocinclus batmani</i> * | | Ucayali, Japurá, Amazonas main channel |
| <i>Otocinclus caxarari</i> * | | Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries |
| <i>Otocinclus cocama</i> * | | Endemic – Ucayali |
| <i>Otocinclus hasemani</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Irirí, lower Xingu, Teles Pires, Jamanxim, Parnaíba |
| <i>Otocinclus hoppei</i> * | | Lower Tocantins, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Amazonas Estuary |
| <i>Otocinclus huaorani</i> | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Upper Orinoco |
| <i>Otocinclus juruena</i> * | | Endemic – Juruena |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|---|
| <i>Otocinclus macrospilus</i> * | | Javari, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Otocinclus mangaba</i> * | | Endemic – Middle-lower Madeira |
| <i>Otocinclus mariae</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Curuá-Paru do Oeste, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Otocinclus mura</i> * | | Mamoré, middle-lower Madeira, Amazonas main channel |
| <i>Otocinclus tapirape</i> * | | Endemic – Araguaia |
| <i>Otocinclus vestitus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Napo-Ambyiacu, Amazonas main channel, Paraná-Paraguay |
| <i>Otocinclus vittatus</i> | | Araguaia, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, Marañon-Nanay, Japurá, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Oxyropsis acutirostra</i> | | Negro, upper Orinoco |
| <i>Oxyropsis carinata</i> * | | Upper Xingu, Japurá, Negro, Amazonas main channel |
| <i>Oxyropsis wrightiana</i> | | Teles Pires, middle-lower Madeira, Japurá, Negro, Amazonas main channel, upper Orinoco |
| <i>Panaqolus albivermis</i> * | | Endemic – Ucayali |
| <i>Panaqolus albomaculatus</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu |
| <i>Panaqolus changae</i> * | | Purus, Juruá, Ucayali, Marañon-Nanay |
| <i>Panaqolus claustellifer</i> * | | Endemic – Branco |
| <i>Panaqolus dentex</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Panaqolus gnomus</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Panaqolus nix</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Panaqolus nocturnus</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Panaqolus purusiensis</i> * | | Endemic – Purus |
| <i>Panaqolus tankei</i> * | | Endemic – lower Xingu |
| <i>Panaque armbrusteri</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamaxim |
| <i>Panaque bathyphilus</i> * | | Marañon-Nanay, Amazonas main channel |
| <i>Panaque schaeferi</i> * | | Middle-lower Madeira, Purus, Ucayali, Marañon-Nanay, Amazonas main channel |
| <i>Panaque titan</i> * | | Endemic – Napo-Ambyiacu |
| <i>Parancistrus aurantiacus</i> * | | Araguaia, lower Tocantins, upper Xingu, Iriri, Ucayali |
| <i>Parancistrus nudiventris</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Pareiorhaphis regani</i> * | | Negro |
| <i>Parotocinclus amazonensis</i> * | | Middle-lower Madeira, Amazonas main channel |
| <i>Parotocinclus aripuanensis</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Parotocinclus britskii</i> | | Araguaia, lower Tocantins, Branco, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Parotocinclus collinsae</i> * | | Endemic – Branco |
| <i>Parotocinclus dani</i> * | | Endemic – Teles Pires |
| <i>Parotocinclus halbothi</i> | | Trombetas, Maroni-Approuague |
| <i>Parotocinclus longirostris</i> * | | Endemic – Amazonas main channel |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| <i>Parotocinclus polyochrus</i> | | Negro, upper Orinoco |
| <i>Parotocinclus variola</i> * | | Endemic – Amazonas main channel |
| <i>Parotocinclus yaka</i> * | | Endemic – Negro |
| <i>Peckoltia braueri</i> * | | Branco, Amazonas main channel |
| <i>Peckoltia brevis</i> * | | Lower Tocantins, Mamoré, Guaporé, Purus, Juruá, Amazonas main channel |
| <i>Peckoltia cavatica</i> | | Tapajós, Essequibo |
| <i>Peckoltia compta</i> * | | Restricted to Tapajós basin (Tapajós, Jamanxim) |
| <i>Peckoltia ephippiata</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Peckoltia furcata</i> * | | Ucayali, Marañon-Nanay, Amazonas main channel |
| <i>Peckoltia multispinis</i> ** | | |
| <i>Peckoltia oligospila</i> | | Upper Tocantins, lower Tocantins, Capim |
| <i>Peckoltia pankimpuju</i> * | | Endemic – Amazonas main channel |
| <i>Peckoltia relictum</i> * | | Endemic – Marañon |
| <i>Peckoltia sabaji</i> | | Lower Xingu, Teles Pires, Tapajós, Negro, Branco, Jari, Essequibo, upper Orinoco |
| <i>Peckoltia vermiculata</i> ** | | |
| <i>Peckoltia vittata</i> | | Upper Tocantins, Araguaia, lower Tocantins, Anapu, upper Xingu, Iriri, lower Xingu, Tapajós, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Gurupi-Turiação, Capim, upper Orinoco |
| <i>Peckoltichthys bachi</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyacu, Putumayo, Amazonas main channel, upper Orinoco |
| <i>Planiloricaria cryptodon</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Putumayo, Amazonas main channel |
| <i>Pseudacanthicus histrix</i> ** | | Lower Tocantins, upper Xingu, lower Xingu, Purus, Japurá, lower Orinoco, upper Orinoco, Apure |
| <i>Pseudacanthicus leopardus</i> | | Upper Xingu, lower Xingu, Branco, Essequibo |
| <i>Pseudacanthicus major</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Pseudacanthicus pirarara</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Pseudacanthicus pitanga</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Pseudacanthicus serratus</i> | | Upper Tocantins, lower Tocantins, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo |
| <i>Pseudacanthicus spinosus</i> | | Lower Tocantins, Anapu, Pacajá, upper Xingu, lower Xingu, Negro, Urubu-Uatumã, Amazonas main channel, Amazonas Estuary, Capim, lower Orinoco |
| <i>Pseudancistrus asurini</i> * | | Restricted to Xingu basin (Iriri, lower Xingu) |
| <i>Pseudancistrus kayabi</i> * | | Endemic – Teles Pires |
| <i>Pseudancistrus nigrescens</i> | | Branco, Essequibo |
| <i>Pseudancistrus pectegenitor</i> | | Negro, upper Orinoco |
| <i>Pseudancistrus sidereus</i> | | Negro, upper Orinoco |
| <i>Pseudancistrus zawadzki</i> * | | Endemic – Tapajós |
| <i>Pseudohemiodon amazonum</i> * | | Endemic – Trombetas |
| <i>Pseudohemiodon apithanos</i> * | | Endemic – Putumayo |
| <i>Pseudohemiodon lamina</i> * | | Beni-Madre de Dios |

| Taxon | Species | Occurrence |
|---|---------|--|
| <i>Pseudohemiodon thorectes</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Pseudolithoxus kinja</i> * | | Madeira Shield Tributaries, Urubu-Uatumã, Trombetas |
| <i>Pseudolithoxus nicoi</i> | | Negro, upper Orinoco |
| <i>Pseudoloricaria laeviuscula</i> | | Araguaia, lower Xingu, Tapajós, Jamanxim, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Pseudorinelepis genibarbis</i> * | | Middle-lower Madeira, Purus, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel |
| <i>Pterosturisoma microps</i> * | | Mamoré, Guaporé, middle-lower Madeira, Putumayo, Amazonas main channel |
| <i>Pterygoplichthys disjunctivus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Pterygoplichthys gibbiceps</i> | | Lower Tocantins, Tapajós, Purus, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Pterygoplichthys joselimaianus</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Pterygoplichthys lituratus</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Juruá, Amazonas main channel |
| <i>Pterygoplichthys multiradiatus</i> | | Beni-Madre de Dios, lower Orinoco, upper Orinoco, Apure |
| <i>Pterygoplichthys pardalis</i> * | | Mamoré, Guaporé, middle-lower Madeira, Purus, Ucayali, Napo-Ambyiacu, Putumayo, Amazonas main channel |
| <i>Pterygoplichthys punctatus</i> | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, Purus, Juruá, Ucayali, Putumayo, Amazonas main channel, Itapicuru-Mearim, Capim |
| <i>Pterygoplichthys scrophus</i> * | | Purus, Ucayali, Amazonas main channel |
| <i>Pterygoplichthys weberi</i> * | | Marañon-Nanay, Napo-Ambyiacu, Japurá, Amazonas main channel |
| <i>Pterygoplichthys xinguensis</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Reganella depressa</i> * | | Lower Xingu, Tapajós, Guaporé, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Rhadinoloricaria bahuaja</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus |
| <i>Rhadinoloricaria rhami</i> * | | Juruá, Ucayali, Amazonas main channel |
| <i>Rhadinoloricaria macromystax</i> ** | | |
| <i>Rhinolekos capetinga</i> * | | Endemic – upper Tocantins |
| <i>Rineloricaria aurata</i> | | Guaporé, Paraná-Paraguay |
| <i>Rineloricaria beni</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Rineloricaria castroi</i> * | | Branco, Trombetas, Amazonas main channel |
| <i>Rineloricaria daraha</i> * | | Endemic – Negro |
| <i>Rineloricaria fallax</i> | | Japurá, Negro, Branco, Trombetas, Corentyne-Demerara, Essequibo |
| <i>Rineloricaria formosa</i> | | Mamoré, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Rineloricaria hasemani</i> | | Upper Tocantins, Araguaia, Branco, Capim |
| <i>Rineloricaria heteroptera</i> * | | Endemic – Amazonas main channel |
| <i>Rineloricaria jurupari</i> * | | Endemic – Negro |
| <i>Rineloricaria konopickyi</i> ** | | |
| <i>Rineloricaria lanceolata</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Ucayali, Marañon-Nanay, Negro, Branco, Trombetas, Amazonas main channel, Essequibo, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|--|---------|--|
| <i>Rineloricaria melini</i> * | | Endemic – Amazonas main channel |
| <i>Rineloricaria microlepidota</i> * | | Endemic – Juruá |
| <i>Rineloricaria morrowi</i> * | | Endemic – Ucayali |
| <i>Rineloricaria osvaldoi</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Rineloricaria phoxocephala</i> * | | Purus, Coari-Urucu, Branco, Amazonas main channel |
| <i>Rineloricaria stewarti</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Rineloricaria teffiana</i> * | | Endemic – Amazonas main channel |
| <i>Rineloricaria wolfei</i> * | | Endemic – Ucayali |
| <i>Scobinancistrus aureatus</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Scobinancistrus pariolispos</i> * | | Lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Tapajós |
| <i>Spatuloricaria caquetae</i> * | | Putumayo, Japurá |
| <i>Spatuloricaria euacanthagenys</i> ** | | Japurá |
| <i>Spatuloricaria evansii</i> | | Upper Tocantins, Araguaia, lower Tocantins, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Marañon-Nanay, Urubu-Uatumã, Trombetas, Paraná-Paraguay |
| <i>Spatuloricaria pujanensis</i> ** | | Beni-Madre de Dios, Purus, Juruá |
| <i>Spatuloricaria taira</i> * | | Upper Xingu, Iriri, lower Xingu, Teles Pires, Jamanxim |
| <i>Spectracanthicus immaculatus</i> * | | Endemic – Tapajós |
| <i>Spectracanthicus javae</i> * | | Endemic – Araguaia |
| <i>Spectracanthicus murinus</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós, Jamanxim) |
| <i>Spectracanthicus punctatissimus</i> * | | Endemic – lower Xingu |
| <i>Spectracanthicus tocantinensis</i> * | | Endemic – lower Tocantins |
| <i>Spectracanthicus zuanoni</i> * | | Endemic – lower Xingu |
| <i>Sturisoma brevirostre</i> * | | Endemic – Amazonas main channel |
| <i>Sturisoma graffini</i> * | | Endemic – Beni-Madre de Dios |
| <i>Sturisoma guentheri</i> * | | Marañon-Nanay, Napo-Ambyiacu |
| <i>Sturisoma lyra</i> * | | Mamoré, middle-lower Madeira, Juruá |
| <i>Sturisoma monopelte</i> | | Branco, Essequibo |
| <i>Sturisoma nigrirostrum</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Putumayo |
| <i>Sturisoma rostratum</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Jamanxim |
| <i>Sturisoma tenuirostre</i> | | Branco, lower Orinoco, upper Orinoco, Apure |
| <i>Sturisomatichthys caquetae</i> * | | Endemic – Japurá |
| Scoloplacidae | 6 | |
| <i>Scoloplax baileyi</i> * | | Negro, Amazonas main channel |
| <i>Scoloplax baskini</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Purus, Branco |
| <i>Scoloplax dicra</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, Negro, Branco, Amazonas main channel |
| <i>Scoloplax distolothrix</i> | | Araguaia, upper Xingu, lower Xingu, Paraná-Paraguay |
| <i>Scoloplax dolicholophia</i> * | | Negro, Amazonas main channel |
| <i>Scoloplax empousa</i> | | Guaporé, Paraná-Paraguay |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| Trichomycteridae | 75 | |
| <i>Acanthopoma annectens</i> * | | Mamoré, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Amazonas main channel |
| <i>Ammoglanis amapaensis</i> * | | Endemic – Jari |
| <i>Ammoglanis diaphanus</i> * | | Endemic – Araguaia |
| <i>Ammoglanis pulex</i> | | Amazonas main channel, upper Orinoco |
| <i>Apomatoceros alleni</i> * | | Middle-lower Madeira, Marañon-Nanay, Amazonas main channel |
| <i>Glanapteryx anguilla</i> | | Negro, Branco, upper Orinoco |
| <i>Glanapteryx niobium</i> * | | Endemic – Negro |
| <i>Haemomaster venezuelae</i> | | Upper Tocantins, Araguaia, upper Xingu, Teles Pires, Juruena, Madeira Shield Tributaries, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Henonemus intermedius</i> * | | Endemic – Araguaia |
| <i>Henonemus macrops</i> * | | Endemic – Amazonas main channel |
| <i>Henonemus punctatus</i> | | Upper Tocantins, Araguaia, lower Xingu, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Essequibo |
| <i>Ituglanis amazonicus</i> | | Upper Xingu, Jamanxim, Mamoré, middle-lower Madeira, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Ituglanis apteryx</i> * | | Endemic – Iri |
| <i>Ituglanis bambuí</i> * | | Endemic – upper Tocantins |
| <i>Ituglanis boticario</i> * | | Endemic – upper Tocantins |
| <i>Ituglanis compactus</i> * | | Endemic – Jari |
| <i>Ituglanis epikarsticus</i> * | | Endemic – upper Tocantins |
| <i>Ituglanis goya</i> | | Upper Tocantins, Paraná-Paraguay |
| <i>Ituglanis ina</i> * | | Endemic – lower Tocantins |
| <i>Ituglanis macunaima</i> * | | Endemic – Araguaia |
| <i>Ituglanis mambai</i> * | | Endemic – upper Tocantins |
| <i>Ituglanis parkoi</i> * | | Endemic – Javari |
| <i>Ituglanis passensis</i> * | | Endemic – upper Tocantins |
| <i>Ituglanis ramiroi</i> * | | Endemic – upper Tocantins |
| <i>Malacoglanis gelatinosus</i> | | Japurá, upper Orinoco |
| <i>Megalocentor echthrus</i> | | Mamoré, middle-lower Madeira, Purus, Juruá, Japurá, Negro, Branco, Amazonas main channel, lower Orinoco |
| <i>Miuroglanis platycephalus</i> * | | Beni-Madre de Dios, middle-lower Madeira, Purus, Urubu-Uatumã, Amazonas main channel |
| <i>Ochmacanthus alternus</i> | | Lower Tocantins, Guaporé, Putumayo, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, Apure |
| <i>Ochmacanthus orinoco</i> | | Araguaia, lower Tocantins, lower Xingu, Madeira Shield Tributaries, Negro, Branco, Amazonas main channel, upper Orinoco, Apure |
| <i>Ochmacanthus reinhardtii</i> | | Upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Juruá, Napo-Ambyiacu, Putumayo, Negro, Branco, Essequibo |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Paracanthopoma parva</i> | | Upper Tocantins, Araguaia, upper Xingu, Teles Pires, Juruena, Tapajós, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Marañon-Nanay, Napo-Ambyiacu, Negro, Branco, Trombetas, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Pareiodon microps</i> * | | Araguaia, middle-lower Madeira, Amazonas main channel |
| <i>Plectrochilus diabolicus</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Juruá, Amazonas main channel |
| <i>Plectrochilus machadoi</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel |
| <i>Plectrochilus wieneri</i> * | | Endemic – Napo-Ambyiacu |
| <i>Potamoglanis anhangá</i> * | | Madeira Shield Tributaries, Amazonas main channel |
| <i>Potamoglanis hasemani</i> | | Anapu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Purus, Coari-Urucu, Negro, Branco, Amazonas main channel, Amazonas Estuary, Gurupi-Turiação, Capim, Essequibo |
| <i>Potamoglanis johnsoni</i> | | Jari, Amazonas main channel, Paraná-Paraguay |
| <i>Potamoglanis wapixana</i> * | | Endemic – Branco |
| <i>Pseudostegophilus nemurus</i> | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Napo-Ambyiacu, Japurá, Negro, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Pygidianops amphioxus</i> * | | Negro, Amazonas main channel |
| <i>Pygidianops eigenmanni</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Pygidianops magoi</i> | | Branco, lower Orinoco, upper Orinoco |
| <i>Sarcoglanis simplex</i> | | Negro, Branco, upper Orinoco |
| <i>Schultzichthys bondi</i> | | Middle-lower Madeira, Napo-Ambyiacu, lower Orinoco, upper Orinoco, Apure |
| <i>Stauroglanis gouldingi</i> * | | Negro, Amazonas main channel |
| <i>Stegophilus panzeri</i> | | Lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Jamaxim, Madeira Shield Tributaries, Capim |
| <i>Stenolicmus ix</i> | | Curuá-Paru do Oeste, Maroni-Approuague |
| <i>Stenolicmus sarmientoi</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Trichomycterus barbouri</i> | | Beni-Madre de Dios, Paraná-Paraguay |
| <i>Trichomycterus bomboizanus</i> * | | Endemic – Marañon |
| <i>Trichomycterus chaberti</i> * | | Endemic – Mamoré |
| <i>Trichomycterus dispar</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Trichomycterus fassli</i> * | | Endemic – Beni-Madre de Dios |
| <i>Trichomycterus gabrieli</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Trichomycterus guianense</i> | | Branco, Essequibo, lower Orinoco |
| <i>Trichomycterus megantoni</i> * | | Endemic – Ucayali |
| <i>Trichomycterus nigromaculatus</i> | | Putumayo, Cauca-Magdalena-Sinu, Atrato |
| <i>Trichomycterus oroyae</i> * | | Endemic – Ucayali |
| <i>Trichomycterus punctatissimus</i> * | | Endemic – Araguaia |
| <i>Trichomycterus rivulatus</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Trichomycterus taczanowskii</i> * | | Endemic – Marañon |
| <i>Trichomycterus taeniops</i> * | | Endemic – Ucayali |

| Taxon | Species | Occurrence |
|--|------------|--|
| <i>Trichomycterus tiraquae</i> ** | | |
| <i>Trichomycterus vittatus</i> * | | Beni-Madre de Dios, Marañon-Nanay |
| <i>Trichomycterus weyrauchi</i> * | | Endemic – Ucayali |
| <i>Tridens melanops</i> * | | Mamoré, Purus, Putumayo, Amazonas main channel |
| <i>Tridensimilis brevis</i> * | | Mamoré, middle-lower Madeira, Amazonas main channel |
| <i>Tridentopsis pearsoni</i> ** | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus |
| <i>Tridentopsis tocantinsi</i> * | | Upper Tocantins, Araguaia |
| <i>Typhlobelus auriculatus</i> * | | Endemic – lower Xingu |
| <i>Typhlobelus macromycterus</i> * | | Lower Tocantins, lower Xingu |
| <i>Typhlobelus ternetzi</i> * | | Endemic – Negro |
| <i>Vandellia cirrhosa</i> | | Upper Tocantins, Araguaia, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Gurupituriacu, Capim, upper Orinoco, Apure |
| <i>Vandellia sanguinea</i> | | Upper Tocantins, Araguaia, Tapajós, middle-lower Madeira, Purus, Branco, Jari, Amazonas main channel, Essequibo, lower Orinoco |
| Gymnotiformes | 164 | |
| Apterodontidae | 62 | |
| <i>Adontosternarchus balaenops</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Putumayo, Japurá, Amazonas main channel |
| <i>Apteronotus bonapartii</i> | | Upper Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Tefé, Ucayali, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Adontosternarchus clarkae</i> | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Napo-Ambyiacu, Negro, Amazonas main channel, upper Orinoco |
| <i>Adontosternarchus duartei</i> * | | Endemic – Purus |
| <i>Adontosternarchus nebulosus</i> * | | Middle-lower Madeira, Purus, Tefé, Juruá, Negro, Trombetas, Amazonas main channel |
| <i>Adontosternarchus sachsii</i> | | Lower Tocantins, Mamoré, Guaporé, Purus, Tefé, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Apteronotus albifrons</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamaxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Branco, Urubu-Uatumã, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Apteronotus camposdapazi</i> * | | Endemic – upper Tocantins |
| <i>Apteronotus lindalvae</i> * | | Endemic – Urubu-Uatumã |
| <i>Apteronotus macrolepis</i> * | | Endemic – Amazonas main channel |
| <i>Compsaraia compsus</i> | | Madeira Shield Tributaries, Negro, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Compsaraia iara</i> * | | Middle-lower Madeira, Branco, Amazonas main channel, Amazonas Estuary |
| <i>Compsaraia samueli</i> * | | Putumayo, Amazonas main channel |
| <i>Megadontognathus kaitukaensis</i> * | | Upper Xingu, Teles Pires, Tapajós |
| <i>Melanosternarchus amaru</i> * | | Lower Xingu, Purus, Negro, Amazonas main channel |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Orthosternarchus tamandua</i> * | | Middle-lower Madeira, Purus, Negro, Branco, Amazonas main channel |
| <i>Parapteronotus hasemani</i> * | | Endemic – Amazonas main channel |
| <i>Pariosternarchus amazonensis</i> * | | Middle-lower Madeira, Amazonas main channel |
| <i>Platyurosternarchus crypticus</i> * | | Endemic – Branco |
| <i>Platyurosternarchus macrostoma</i> | | Araguaia, lower Tocantins, upper Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Jari, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Porotergus duende</i> * | | Middle-lower Madeira, Ucayali, Japurá, Negro, Amazonas main channel |
| <i>Porotergus gimbeli</i> | | Lower Tocantins, Anapu, Pacajá, Mamoré, Guaporé, middle-lower Madeira, Coari-Urucu, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Essequibo |
| <i>Porotergus gymnotus</i> | | Mamoré, Guaporé, Maroni-Approuague, Corentyne-Demerara, Essequibo |
| <i>Sternarchorhynchus axelrodi</i> * | | Restricted to Tocantins basin (upper Tocantins, lower Tocantins) |
| <i>Sternarchorhynchus caboclo</i> * | | Endemic – Branco |
| <i>Sternarchorhynchus chaoi</i> * | | Restricted to Madeira basin (Mamoré, middle-lower Madeira) |
| <i>Sternarchorhynchus cramptoni</i> * | | Mamoré, Marañon-Nanay, Amazonas main channel |
| <i>Sternarchorhynchus curumim</i> * | | Endemic – Amazonas main channel |
| <i>Sternarchorhynchus curvirostris</i> * | | Endemic – Marañon |
| <i>Sternarchorhynchus goeldii</i> * | | Lower Tocantins, Mamoré, middle-lower Madeira, Purus, Negro, Amazonas main channel |
| <i>Sternarchorhynchus hagedornae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Sternarchorhynchus higuchii</i> * | | Endemic – Urubu-Uatumã |
| <i>Sternarchorhynchus inpai</i> * | | Endemic – Trombetas |
| <i>Sternarchorhynchus jaimeii</i> * | | Endemic – Urubu-Uatumã |
| <i>Sternarchorhynchus kokraimoro</i> * | | Endemic – lower Xingu |
| <i>Sternarchorhynchus mareikeae</i> * | | Endemic – Trombetas |
| <i>Sternarchorhynchus mesensis</i> * | | Endemic – upper Tocantins |
| <i>Sternarchorhynchus montanus</i> * | | Endemic – Amazonas main channel |
| <i>Sternarchorhynchus mormyrus</i> * | | Purus, Negro, Amazonas main channel |
| <i>Sternarchorhynchus oxyrhynchus</i> | | Branco, lower Orinoco |
| <i>Sternarchorhynchus retzeri</i> * | | Negro, Trombetas, Amazonas main channel |
| <i>Sternarchorhynchus schwassmanni</i> * | | Endemic – Araguaia |
| <i>Sternarchorhynchus severii</i> * | | Endemic – Branco |
| <i>Sternarchorhynchus starksi</i> * | | Lower Xingu, Amazonas main channel, Amazonas Estuary |
| <i>Sternarchorhynchus stewarti</i> * | | Beni-Madre de Dios, Juruá, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel |
| <i>Sternarchorhynchus taphorni</i> * | | Ucayali, Marañon-Nanay |
| <i>Sternarchorhynchus villasboasi</i> * | | Endemic – lower Xingu |
| <i>Sternarchorhynchus yepezi</i> | | Amazonas main channel, Apure |
| <i>Sternarchella calhamazon</i> * | | Lower Xingu, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu, Negro, Trombetas, Amazonas main channel, Amazonas Estuary |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| <i>Sternarchella ducis</i> * | | Purus, Japurá, Negro, Branco, Amazonas main channel |
| <i>Sternarchella orthos</i> | | Middle-lower Madeira, Napo-Ambyiacu, Amazonas main channel, Amazonas Estuary, lower Orinoco, upper Orinoco, Apure |
| <i>Sternarchella patriciae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Sternarchella raptor</i> * | | Jutaí, Japurá, Negro, Branco, Amazonas main channel |
| <i>Sternarchella rex</i> * | | Endemic – Amazonas main channel |
| <i>Sternarchella schotti</i> * | | Endemic – Amazonas main channel |
| <i>Sternarchella sima</i> | | Upper Xingu, Mamoré, Jari, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Sternarchogiton labiatus</i> * | | Endemic – Amazonas main channel |
| <i>Sternarchogiton nattereri</i> | | Upper Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Purus, Ucayali, Japurá, Negro, Branco, Amazonas main channel, lower Orinoco |
| <i>Sternarchogiton porcinum</i> | | Guaporé, Branco, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Sternarchogiton preto</i> | | Lower Tocantins, Anapu, Pacajá, Mamoré, middle-lower Madeira, Purus, Negro, Amazonas main channel, upper Orinoco, Apure |
| <i>Sternarchogiton zuanoni</i> * | | Endemic – lower Xingu |
| <i>Sternarchorhamphus muelleri</i> | | Middle-lower Madeira, Juruá, Ucayali, Negro, Branco, Trombetas, Amazonas main channel, Capim, Araguari-Macari-Amapá, lower Orinoco, upper Orinoco, Apure |
| Gymnotidae | 26 | |
| <i>Electrophorus electricus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Gymnotus arapaima</i> * | | Tefé, Amazonas main channel |
| <i>Gymnotus capanema</i> * | | Endemic – Amazonas Estuary |
| <i>Gymnotus carapo</i> | | Upper Tocantins, Araguaia, lower Tocantins, Iriri, lower Xingu, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Gymnotus cataniapo</i> | | Negro, Amazonas Estuary, Maroni-Approuague, Essequibo, upper Orinoco |
| <i>Gymnotus chaviro</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Gymnotus coatesi</i> * | | Lower Tocantins, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Amazonas main channel |
| <i>Gymnotus coropinae</i> | | Lower Tocantins, Tapajós, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Japurá, Negro, Trombetas, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Gymnotus curupira</i> * | | Mamoré, Beni-Madre de Dios, middle-lower Madeira, Tefé, Ucayali, Napo-Ambyiacu, Putumayo |
| <i>Gymnotus diamantinensis</i> * | | Restricted to Tapajós basin (Teles Pires, Juruena) |
| <i>Gymnotus eyra</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios, Ucayali) |
| <i>Gymnotus inaequilabiatus</i> | | Guaporé, Paraná-Paraguay |
| <i>Gymnotus javari</i> * | | Javari, Ucayali, Napo-Ambyiacu, Amazonas main channel |
| <i>Gymnotus jonasi</i> * | | Middle-lower Madeira, Ucayali, Amazonas main channel |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Gymnotus mamiraua</i> * | | Endemic – Amazonas main channel |
| <i>Gymnotus melanopleura</i> * | | Endemic – Amazonas main channel |
| <i>Gymnotus obscurus</i> * | | Endemic – Amazonas main channel |
| <i>Gymnotus onca</i> * | | Endemic – Amazonas main channel |
| <i>Gymnotus pantanal</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Gymnotus pedanopterus</i> | | Madeira Shield Tributaries, Negro, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Gymnotus riberalta</i> * | | Restricted to Madeira basin (Guaporé, Beni-Madre de Dios) |
| <i>Gymnotus stenoleucus</i> | | Negro, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Gymnotus tigre</i> * | | Marañon-Nanay, Amazonas main channel |
| <i>Gymnotus tiquie</i> * | | Endemic – Negro |
| <i>Gymnotus ucamara</i> * | | Endemic – Ucayali |
| <i>Gymnotus varzea</i> * | | Ucayali, Marañon-Nanay, Amazonas main channel |
| Hypopomidae | 24 | |
| <i>Brachyhypopomus alberti</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Brachyhypopomus arrayae</i> * | | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) |
| <i>Brachyhypopomus batesi</i> * | | Negro, Amazonas main channel |
| <i>Brachyhypopomus beebei</i> | | Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyhypopomus belindae</i> * | | Endemic – Amazonas main channel |
| <i>Brachyhypopomus benjamini</i> * | | Ucayali, Marañon-Nanay |
| <i>Brachyhypopomus bennetti</i> * | | Beni-Madre de Dios, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel, Amazonas Estuary |
| <i>Brachyhypopomus bombilla</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay |
| <i>Brachyhypopomus brevirostris</i> | | Araguaia, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Marañon-Nanay, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Brachyhypopomus bullocki</i> | | Negro, Branco, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyhypopomus cunia</i> * | | Restricted to Madeira basin (Guaporé, middle-lower Madeira) |
| <i>Brachyhypopomus flavipomus</i> * | | Javari, Amazonas main channel |
| <i>Brachyhypopomus hamiltoni</i> * | | Middle-lower Madeira, Marañon-Nanay, Japurá, Negro, Urubu-Uatumã, Amazonas main channel |
| <i>Brachyhypopomus hendersoni</i> | | Tefé, Japurá, Negro, Amazonas main channel, Essequibo |
| <i>Brachyhypopomus pimnicaudatus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim, Capim, Oiapoque |
| <i>Brachyhypopomus provenzanoi</i> * | | Upper Negro, upper Orinoco |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Brachyhypopomus regani</i> | | Araguaia, Tapajós, Jamanxim, middle-lower Madeira, Purus, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, lower Orinoco, upper Orinoco, Apure |
| <i>Brachyhypopomus sullivani</i> | | Teles Pires, Juruena, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo, upper Orinoco |
| <i>Brachyhypopomus verdii</i> * | | Endemic – Marañon |
| <i>Brachyhypopomus walteri</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Negro, Branco, Urubu-Uatumã, Amazonas main channel, Capim, Essequibo, Paraná-Paraguay |
| <i>Hypopomus artedi</i> | | Mamoré, Guaporé, Putumayo, Amazonas main channel, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Microsternarchus bilineatus</i> | | Araguaia, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Capim, lower Orinoco, upper Orinoco, Apure |
| <i>Procerusternarchus pixuna</i> * | | Endemic – Negro |
| <i>Racenisia fimbriipinna</i> | | Negro, upper Orinoco |
| Rhamphichthyidae | 23 | |
| <i>Gymnorhamphichthys bogardusae</i> | | Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Gymnorhamphichthys hypostomus</i> | | Araguaia, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Marañon-Nanay, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco |
| <i>Gymnorhamphichthys rondoni</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Coari-Urucu, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Gymnorhamphichthys rosamariae</i> | | Lower Xingu, Tapajós, Jutai, Negro, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Paraná-Paraguay |
| <i>Hypopygus benoneae</i> * | | Endemic – Anapu |
| <i>Hypopygus cryptogenes</i> | | Negro, upper Orinoco |
| <i>Hypopygus hoedemani</i> * | | Endemic – Negro |
| <i>Hypopygus lepturus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Paraná-Paraguay |
| <i>Hypopygus minissimus</i> | | Negro, upper Orinoco |
| <i>Hypopygus neblinae</i> | | Negro, Corentyne-Demerara, lower Orinoco, upper Orinoco, Apure |
| <i>Hypopygus nijsseni</i> * | | Tefé, Amazonas main channel |

| Taxon | Species | Occurrence |
|-------------------------------------|---------|--|
| <i>Hypopygus ortegai</i> * | | Ucayali, Amazonas main channel |
| <i>Hypopygus varii</i> * | | Endemic – Trombetas |
| <i>Iracema caiana</i> * | | Endemic – Amazonas main channel |
| <i>Rhamphichthys drepanium</i> | | Mamoré, Tefé, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Rhamphichthys heleios</i> * | | Mamoré, Amazonas main channel |
| <i>Rhamphichthys lineatus</i> * | | Ucayali, Amazonas main channel |
| <i>Rhamphichthys longior</i> ** | | Trombetas, Curuá-Paru do Oeste |
| <i>Rhamphichthys pantherinus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Araguari-Macari-Amapá, upper Orinoco |
| <i>Rhamphichthys rostratus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Tefé, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Coppenname-Suriname-Saramacca, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Steatogenys duidae</i> | | Middle-lower Madeira, Negro, Branco, Curuá-Paru do Oeste, Amazonas main channel, Capim, lower Orinoco, upper Orinoco |
| <i>Steatogenys elegans</i> * | | Lower Tocantins, Tapajós, middle-lower Madeira, Purus, Putumayo, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Steatogenys ocellatus</i> | | Anapu, Pacajá, Tapajós, middle-lower Madeira, Purus, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco |
| Sternopygidae | 29 | |
| <i>Archolaemus blax</i> * | | Upper Tocantins, lower Tocantins, Branco |
| <i>Archolaemus ferreirai</i> | | Branco, Capim |
| <i>Archolaemus janeae</i> * | | Upper Xingu, Iriri, lower Xingu, Jamanxim |
| <i>Archolaemus luciae</i> | | Upper Xingu, Teles Pires, Tapajós, Jamanxim, Trombetas, Jari, Araguari-Macari-Amapá |
| <i>Archolaemus santosi</i> * | | Endemic – Middle-lower Madeira |
| <i>Distocyclus conirostris</i> | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Negro, Trombetas, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Eigenmannia antonioi</i> * | | Endemic – Anapu |
| <i>Eigenmannia limbata</i> | | Middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Eigenmannia loretana</i> * | | Ucayali, Marañon-Nanay |
| <i>Eigenmannia macrops</i> | | Araguaia, upper Xingu, Iriri, Mamoré, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Branco, Parnaíba, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Eigenmannia matintapereira</i> * | | Endemic – Negro |
| <i>Eigenmannia muirapinima</i> * | | Endemic – Amazonas main channel |
| <i>Eigenmannia nigra</i> | | Araguaia, lower Tocantins, Napo-Ambyiacu, Negro, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|--------------------------------------|------------|--|
| <i>Eigenmannia vicentespelaea</i> * | | Endemic – upper Tocantins |
| <i>Eigenmannia virescens</i> | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Guaporé, Beni-Madre de Dios, Ucayali, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Cauca-Magdalena-Sinu, Paraná-Paraguay |
| <i>Eigenmannia waiwai</i> * | | Endemic – Trombetas |
| <i>Rhabdolichops caviceps</i> | | Upper Tocantins, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Napo-Ambyiacu, Japurá, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Rhabdolichops eastwardi</i> | | Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Napo-Ambyiacu, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Rhabdolichops electrogrammus</i> | | Middle-lower Madeira, Negro, Branco, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Rhabdolichops lundbergi</i> * | | Endemic – Amazonas main channel |
| <i>Rhabdolichops navalha</i> * | | Tefé, Amazonas main channel |
| <i>Rhabdolichops nigrimans</i> * | | Tefé, Negro, Amazonas main channel |
| <i>Rhabdolichops stewarti</i> | | Teles Pires, Tapajós, lower Orinoco, upper Orinoco |
| <i>Rhabdolichops troscheli</i> | | Lower Tocantins, Mamoré, Guaporé, middle-lower Madeira, Purus, Tefé, Negro, Branco, Trombetas, Amazonas main channel, lower Orinoco |
| <i>Sternopygus astrabes</i> | | Tefé, Negro, Urubu-Uatumã, Amazonas main channel, upper Orinoco |
| <i>Sternopygus branco</i> * | | Tefé, Japurá, Negro, Trombetas, Amazonas main channel |
| <i>Sternopygus macrurus</i> | | Upper Tocantins, Araguaia, lower Tocantins, Teles Pires, Juruena, Tapajós, Jamaxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Tefé, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Parnaíba, Itapicuru-Mearim, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Cauca-Magdalena-Sinu, Paraná-Paraguay |
| <i>Sternopygus obtusirostris</i> * | | Lower Tocantins, Tefé, Negro, Branco, Amazonas main channel |
| <i>Sternopygus xingu</i> * | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu |
| Batrachoidiformes | 2 | |
| Batrachoididae | 2 | |
| <i>Potamobatrachus trispinosus</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Thalassophryne amazonica</i> * | | Lower Xingu, Marañon-Nanay, Putumayo, Negro, Amazonas main channel |
| Cyprinodontiformes | 166 | |
| Anablepidae | 1 | |
| <i>Jenynsia alternimaculata</i> | | Mamoré, Guaporé, Paraná-Paraguay |
| Cynolebiidae | 141 | |
| <i>Anablepsoides amanan</i> * | | Endemic – Amazonas main channel |
| <i>Anablepsoides atratus</i> * | | Middle-lower Madeira, Purus, Juruá, Amazonas main channel |
| <i>Anablepsoides beniensis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Anablepsoides cajariensis</i> * | | Endemic – Amazonas Estuary |
| <i>Anablepsoides chapare</i> * | | Endemic – Mamoré |

| Taxon | Species | Occurrence |
|--|---------|--|
| <i>Anablepsoides christinae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Anablepsoides derhami</i> * | | Endemic – Ucayali |
| <i>Anablepsoides elongatus</i> * | | Endemic – Ucayali |
| <i>Anablepsoides erberi</i> * | | Endemic – Napo-Ambyiacu |
| <i>Anablepsoides gamae</i> * | | Endemic – Jari |
| <i>Anablepsoides henschelae</i> * | | Endemic – Negro |
| <i>Anablepsoides hoetmeri</i> * | | Endemic – Purus |
| <i>Anablepsoides intermittens</i> * | | Endemic – Amazonas main channel |
| <i>Anablepsoides iridescens</i> * | | Endemic – Ucayali |
| <i>Anablepsoides jari</i> * | | Endemic – Jari |
| <i>Anablepsoides jucundus</i> * | | Endemic – Marañon |
| <i>Anablepsoides limoncochae</i> * | | Napo-Ambyiacu, Japurá, Amazonas main channel |
| <i>Anablepsoides lineasoppilatae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Anablepsoides luitalimae</i> * | | Endemic – Middle-lower Madeira |
| <i>Anablepsoides micropus</i> * | | Negro, Amazonas main channel |
| <i>Anablepsoides monticola</i> * | | Endemic – Marañon |
| <i>Anablepsoides ophiomimus</i> * | | Napo-Ambyiacu, Japurá, Amazonas main channel |
| <i>Anablepsoides ornatus</i> * | | Middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Anablepsoides ottonii</i> * | | Endemic – Negro |
| <i>Anablepsoides parlettei</i> * | | Endemic – Beni-Madre de Dios |
| <i>Anablepsoides peruanus</i> ** | | |
| <i>Anablepsoides roraima</i> * | | Endemic – Branco |
| <i>Anablepsoides rubrolineatus</i> * | | Ucayali, Putumayo, Amazonas main channel |
| <i>Anablepsoides speciosus</i> * | | Endemic – Amazonas main channel |
| <i>Anablepsoides stagnatus</i> | | Branco, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Anablepsoides taeniatus</i> * | | Purus, Japurá, Negro, Amazonas main channel |
| <i>Anablepsoides tocantinensis</i> * | | Endemic – upper Tocantins |
| <i>Anablepsoides urophthalmus</i> | | Upper Tocantins, lower Tocantins, lower Xingu, Putumayo, Jari, Amazonas main channel, Itapicuru-Mearim, Gurupi-Turiação, Capim |
| <i>Anablepsoides urubuiensis</i> * | | Endemic – Urubu-Uatumã |
| <i>Anablepsoides xanthonotus</i> ** | | |
| <i>Anablepsoides xinguensis</i> * | | Endemic – lower Xingu |
| <i>Aphyolebias boticarioi</i> * | | Endemic – Purus |
| <i>Aphyolebias claudiae</i> * | | Endemic – Guaporé |
| <i>Aphyolebias manuensis</i> * | | Endemic – Beni-Madre de Dios |
| <i>Aphyolebias obliquus</i> * | | Endemic – Mamoré |
| <i>Aphyolebias peruensis</i> * | | Napo-Ambyiacu, Amazonas main channel |
| <i>Aphyolebias rubrocaudatus</i> * | | Endemic – Beni-Madre de Dios |
| <i>Aphyolebias schleseri</i> * | | Endemic – Amazonas main channel |

| Taxon | Species | Occurrence |
|--|---|------------|
| <i>Aphyolebias wischmanni</i> * | Endemic – Ucayali | |
| <i>Austrofundulus rupununi</i> * | Endemic – Branco | |
| <i>Austrolebias accorsii</i> * | Endemic – Mamoré | |
| <i>Austrolebias monstrosus</i> | Guaporé, Paraná-Paraguay | |
| <i>Austrolebias vandenbergi</i> | Guaporé, Paraná-Paraguay | |
| <i>Cynolebias griseus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias brunoii</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias flammeus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias marginatus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias multiradiatus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias notataus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias radiosus</i> * | Endemic – upper Tocantins | |
| <i>Hypsolebias tocantinensis</i> * | Endemic – upper Tocantins | |
| <i>Laimosemion amanapira</i> * | Endemic – Negro | |
| <i>Laimosemion dibaphus</i> * | Tapajós, Trombetas | |
| <i>Laimosemion gili</i> * | Endemic – Negro | |
| <i>Laimosemion kirovskiyi</i> * | Endemic – Urubu-Uatumã | |
| <i>Laimosemion jauaperi</i> * | Endemic – Negro | |
| <i>Laimosemion leticia</i> * | Endemic – Amazonas main channel | |
| <i>Laimosemion rectocaudatus</i> * | Endemic – Amazonas main channel | |
| <i>Laimosemion romeri</i> * | Endemic – Negro | |
| <i>Laimosemion tecminae</i> | Negro, upper Orinoco | |
| <i>Laimosemion uakti</i> * | Endemic – Negro | |
| <i>Laimosemion uatuman</i> * | Endemic – Urubu-Uatumã | |
| <i>Laimosemion ubim</i> * | Endemic – Japurá | |
| <i>Maratecoara formosa</i> * | Restricted to Tocantins basin (upper Tocantins, Araguaia) | |
| <i>Maratecoara gesmonei</i> * | Endemic – upper Xingu | |
| <i>Maratecoara lacortei</i> * | Endemic – Araguaia | |
| <i>Maratecoara splendida</i> * | Endemic – upper Tocantins | |
| <i>Melanorivulus britzkei</i> * | Endemic – Teles Pires | |
| <i>Melanorivulus canesi</i> * | Endemic – Iriri | |
| <i>Melanorivulus crixas</i> * | Endemic – Araguaia | |
| <i>Melanorivulus ignescens</i> * | Endemic – Araguaia | |
| <i>Melanorivulus imperatrizensis</i> * | Endemic – upper Tocantins | |
| <i>Melanorivulus jalapensis</i> * | Endemic – upper Tocantins | |
| <i>Melanorivulus javahe</i> * | Endemic – Araguaia | |
| <i>Melanorivulus karaja</i> * | Endemic – Araguaia | |
| <i>Melanorivulus kayabi</i> * | Upper Xingu, Teles Pires, Juruena | |

| Taxon | Species | Occurrence |
|---|---------|---|
| <i>Melanorivulus kayapo</i> * | | Endemic – Araguaia |
| <i>Melanorivulus kunzei</i> * | | Endemic – Araguaia |
| <i>Melanorivulus litteratus</i> * | | Endemic – Araguaia |
| <i>Melanorivulus megaroni</i> * | | Endemic – upper Xingu |
| <i>Melanorivulus modestus</i> * | | Endemic – Juruena |
| <i>Melanorivulus petrisecondi</i> * | | Endemic – Araguaia |
| <i>Melanorivulus pictus</i> | | Araguaia, Paraná-Paraguay |
| <i>Melanorivulus pindorama</i> * | | Endemic – upper Tocantins |
| <i>Melanorivulus planaltinus</i> * | | Endemic – upper Tocantins |
| <i>Melanorivulus rubromarginatus</i> * | | Endemic – Araguaia |
| <i>Melanorivulus rubroreticulatus</i> * | | Endemic – lower Xingu |
| <i>Melanorivulus salmonicaudus</i> * | | Endemic – Araguaia |
| <i>Melanorivulus schuncki</i> * | | Endemic – Jari |
| <i>Melanorivulus spixi</i> * | | Endemic – Araguaia |
| <i>Melanorivulus ubirajarai</i> * | | Endemic – Araguaia |
| <i>Melanorivulus violaceus</i> * | | Endemic – Araguaia |
| <i>Melanorivulus wallacei</i> * | | Endemic – upper Tocantins |
| <i>Melanorivulus zygonectes</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Juruena |
| <i>Moema apurinan</i> * | | Endemic – Purus |
| <i>Moema beucheyi</i> * | | Endemic – Guaporé |
| <i>Moema hellneri</i> * | | Endemic – Napo-Ambyacu |
| <i>Moema kenwoodi</i> * | | Endemic – Beni-Madre de Dios |
| <i>Moema nudifrontata</i> * | | Endemic – Branco |
| <i>Moema pepotei</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Moema portugali</i> * | | Endemic – Branco |
| <i>Moema quiii</i> * | | Endemic – Beni-Madre de Dios |
| <i>Moema staecki</i> * | | Endemic – Amazonas main channel |
| <i>Neofundulus guaporensis</i> * | | Endemic – Guaporé |
| <i>Neofundulus ornatipinnis</i> | | Mamoré, Paraná-Paraguay |
| <i>Neofundulus splendidus</i> * | | Endemic – Mamoré |
| <i>Papiliolebias ashleyae</i> * | | Endemic – Guaporé |
| <i>Papiliolebias francescae</i> * | | Endemic – Guaporé |
| <i>Papiliolebias habluetzei</i> * | | Endemic – Mamoré |
| <i>Pituna compacta</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Pituna obliquoseriata</i> * | | Endemic – Araguaia |
| <i>Pituna poranga</i> * | | Endemic – Araguaia |
| <i>Pituna xinguensis</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Plesiolebias altamira</i> * | | Endemic – lower Xingu |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Plesiolebias aruana</i> * | | Endemic – Araguaia |
| <i>Plesiolebias canabravensis</i> * | | Endemic – upper Tocantins |
| <i>Plesiolebias filamentosus</i> * | | Endemic – upper Tocantins |
| <i>Plesiolebias fragilis</i> * | | Endemic – Araguaia |
| <i>Plesiolebias lacerdai</i> * | | Endemic – Araguaia |
| <i>Plesiolebias xavantei</i> * | | Endemic – upper Tocantins |
| <i>Pterolebias longipinnis</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay |
| <i>Rivulus staeckii</i> * | | Endemic – Negro |
| <i>Simpsonichthys cholopteryx</i> * | | Endemic – Araguaia |
| <i>Spectrolebias bellidoi</i> * | | Endemic – Mamoré |
| <i>Spectrolebias brousseauii</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Spectrolebias costae</i> * | | Endemic – Araguaia |
| <i>Spectrolebias filamentosus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Spectrolebias gracilis</i> * | | Endemic – upper Tocantins |
| <i>Spectrolebias inaequipinnatus</i> * | | Endemic – upper Tocantins |
| <i>Spectrolebias pilleti</i> * | | Endemic – Mamoré |
| <i>Spectrolebias reticulatus</i> * | | Endemic – lower Xingu |
| <i>Spectrolebias semiocellatus</i> * | | Endemic – Araguaia |
| <i>Trigonectes macrophthalmus</i> * | | Endemic – Guaporé |
| <i>Trigonectes rogoaguae</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Trigonectes rubromarginatus</i> * | | Endemic – Araguaia |
| <i>Trigonectes strigabundus</i> * | | Endemic – upper Tocantins |
| Cyprinodontidae | 7 | |
| <i>Orestias agassizii</i> * | | Beni-Madre de Dios, Ucayali |
| <i>Orestias empyraeus</i> * | | Endemic – Ucayali |
| <i>Orestias gymnota</i> * | | Endemic – Marañon |
| <i>Orestias jussiei</i> * | | Endemic – Ucayali |
| <i>Orestias munda</i> * | | Endemic – Ucayali |
| <i>Orestias pentlandii</i> * | | Endemic – Ucayali |
| <i>Orestias polonorum</i> * | | Endemic – Ucayali |
| Poeciliidae | 17 | |
| <i>Cnesterodon septentrionalis</i> * | | Endemic – Araguaia |
| <i>Fluviphylax obscurus</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Fluviphylax pygmaeus</i> | | Middle-lower Madeira, Amazonas main channel, upper Orinoco |
| <i>Fluviphylax simplex</i> * | | Endemic – Amazonas main channel |
| <i>Fluviphylax zonatus</i> * | | Endemic – Negro |
| <i>Pamphorichthys akroa</i> * | | Endemic – upper Tocantins |
| <i>Pamphorichthys araguaiensis</i> * | | Upper Tocantins, Araguaia, upper Xingu, lower Xingu, Trombetas |

| Taxon | Species | Occurrence |
|-------------------------------------|----------|--|
| <i>Pamphorichthys minor</i> * | | Upper Xingu, lower Xingu, Guaporé, Amazonas main channel |
| <i>Pamphorichthys scalpridens</i> * | | Upper Tocantins, lower Tocantins, Teles Pires, Juruena, Tapajós, Amazonas main channel |
| <i>Phalloceros leticiae</i> * | | Endemic – Araguaia |
| <i>Poecilia bifurca</i> ** | | |
| <i>Poecilia caucana</i> ** | | |
| <i>Poecilia branneri</i> ** | | |
| <i>Poecilia parae</i> | | Lower Xingu, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Poecilia picta</i> | | Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Poecilia waiapi</i> * | | Endemic – Jari |
| <i>Tomeurus gracilis</i> | | Amazonas Estuary, Capim, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| Atheriniformes | 1 | |
| Atherinopsidae | 1 | |
| <i>Odontesthes bonariensis</i> | | Mamoré, Paraná-Paraguay |
| Beloniformes | 9 | |
| Belonidae | 8 | |
| <i>Belonion apodion</i> | | Guaporé, middle-lower Madeira, Purus, Japurá, Branco, Trombetas, Amazonas main channel, upper Orinoco |
| <i>Belonion dibranchodon</i> | | Japurá, Negro, upper Orinoco |
| <i>Potamorrhaphis eigenmanni</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel, Paraná-Paraguay |
| <i>Potamorrhaphis guianensis</i> | | Araguaia, lower Tocantins, upper Xingu, Tapajós, middle-lower Madeira, Javari, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Potamorrhaphis labiatus</i> * | | Juruá, Ucayali, Amazonas main channel |
| <i>Potamorrhaphis petersi</i> | | Negro, Trombetas, lower Orinoco, upper Orinoco, Apure |
| <i>Pseudotylorus angusticeps</i> | | Lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Branco, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay |
| <i>Pseudotylorus microps</i> | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, middle-lower Madeira, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Parnaíba, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo, lower Orinoco, upper Orinoco, Apure |
| Hemiramphidae | 1 | |
| <i>Hyporhamphus brederi</i> | | Amazonas main channel |
| Synbranchiformes | 3 | |
| Synbranchidae | 3 | |
| <i>Synbranchus lampreia</i> * | | Endemic – Amazonas Estuary |
| <i>Synbranchus madeirae</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá |

| Taxon | Species | Occurrence |
|----------------------------------|------------|---|
| <i>Synbranchus marmoratus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, Purus, Tefé, Juruá, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Gurupi-Turiaçu, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure, Maracaibo, Atl. Coastal Drainages of Col. Ven., Cauca-Magdalena-Sinu, Atrato, Paraná-Paraguay |
| Perciformes | 286 | |
| Cichlidae | 258 | |
| <i>Acarichthys heckelii</i> | | Lower Tocantins, lower Xingu, Tapajós, middle-lower Madeira, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Essequibo |
| <i>Acaronia nassa</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Jutai, Ucayali, Marañon-Nanay, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Corentyne-Demerara, Essequibo |
| <i>Acaronia vultuosa</i> | | Madeira Shield Tributaries, Purus, Negro, Branco, lower Orinoco, upper Orinoco, Apure |
| <i>Aequidens chimantanus</i> | | Japurá, Amazonas main channel, lower Orinoco |
| <i>Aequidens diadema</i> | | Juruá, Ucayali, Putumayo, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Aequidens epae</i> | | Teles Pires, Tapajós, Capim |
| <i>Aequidens gercilliae</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Aequidens mauesianus</i> * | | Middle-lower Madeira, Amazonas main channel |
| <i>Aequidens metae</i> | | Putumayo, Japurá, upper Orinoco |
| <i>Aequidens michaeli</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Aequidens pallidus</i> | | Middle-lower Madeira, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim |
| <i>Aequidens patricki</i> * | | Endemic – Ucayali |
| <i>Aequidens plagiozonatus</i> | | Guaporé, Paraná-Paraguay |
| <i>Aequidens potaroensis</i> | | Putumayo, Branco, Essequibo |
| <i>Aequidens rondoni</i> | | Juruena, Paraná-Paraguay |
| <i>Aequidens superomaculatum</i> | | Negro, upper Orinoco |
| <i>Aequidens tetramerus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Javari, Ucayali, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Gurupi-Turiaçu, Capim, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Aequidens tubicen</i> * | | Endemic – Trombetas |
| <i>Aequidens viridis</i> * | | Restricted to Madeira basin (Mamoré, Guaporé) |
| <i>Apistogramma acrensis</i> * | | Middle-lower Madeira, Purus |
| <i>Apistogramma agassizii</i> | | Lower Tocantins, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Purus, Javari, Ucayali, Marañon-Nanay, Japurá, Trombetas, Amazonas main channel, Capim |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Apistogramma aguarico</i> * | | Endemic – Napo-Ambyiacu |
| <i>Apistogramma alacrina</i> | | Japurá, upper Orinoco |
| <i>Apistogramma allpahuayo</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma amoena</i> ** | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Apistogramma angayuara</i> * | | Endemic – Trombetas |
| <i>Apistogramma arua</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma atahualpa</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma baenschi</i> * | | Endemic – Marañon |
| <i>Apistogramma barlowi</i> * | | Endemic – Napo-Ambyiacu |
| <i>Apistogramma bitaeniata</i> * | | Marañon-Nanay, Putumayo, Japurá, Amazonas main channel |
| <i>Apistogramma brevis</i> | | Negro, upper Orinoco |
| <i>Apistogramma cacatuoides</i> * | | Ucayali, Marañon-Nanay, Amazonas main channel |
| <i>Apistogramma caetei</i> | | Lower Tocantins, Gurupi-Turiação, Capim |
| <i>Apistogramma cinilabra</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma commbrae</i> | | Mamoré, Paraná-Paraguay |
| <i>Apistogramma cruzi</i> * | | Napo-Ambyiacu, Putumayo, Japurá |
| <i>Apistogramma diplotaenia</i> | | Negro, Amazonas main channel, upper Orinoco |
| <i>Apistogramma eleutheria</i> * | | Endemic – Iri |
| <i>Apistogramma elizabethae</i> * | | Endemic – Negro |
| <i>Apistogramma eremnopyge</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma erythrura</i> * | | Endemic – Mamoré |
| <i>Apistogramma eunotus</i> * | | Araguaia, Javari, Ucayali, Marañon-Nanay, Putumayo, Japurá, Amazonas main channel |
| <i>Apistogramma flavipedunculata</i> * | | Endemic – Iri |
| <i>Apistogramma geisleri</i> * | | Endemic – Trombetas |
| <i>Apistogramma gephyra</i> * | | Lower Xingu, Mamoré, middle-lower Madeira, Japurá, Negro, Branco, Amazonas main channel |
| <i>Apistogramma gibbiceps</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Apistogramma hippolytae</i> * | | Negro, Branco, Amazonas main channel |
| <i>Apistogramma huascar</i> * | | Endemic – Marañon |
| <i>Apistogramma inconspicua</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Japurá, Paraná-Paraguay |
| <i>Apistogramma iniridae</i> | | Putumayo, Japurá, Negro, upper Orinoco |
| <i>Apistogramma juruensis</i> * | | Endemic – Juruá |
| <i>Apistogramma kullanderi</i> * | | Endemic – Iri |
| <i>Apistogramma linkei</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Apistogramma luelingi</i> * | | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) |
| <i>Apistogramma martini</i> * | | Endemic – Marañon |
| <i>Apistogramma megastoma</i> * | | Endemic – Amazonas main channel |
| <i>Apistogramma meinkeni</i> * | | Restricted to Negro basin (Negro, Branco) |

| Taxon | Species | Occurrence |
|---|--|------------|
| <i>Apistogramma mendezi</i> * | Endemic – Negro | |
| <i>Apistogramma moae</i> * | Endemic – Juruá | |
| <i>Apistogramma nijsseni</i> * | Endemic – Ucayali | |
| <i>Apistogramma norberti</i> * | Endemic – Amazonas main channel | |
| <i>Apistogramma ortegai</i> * | Endemic – Napo-Ambyiacu | |
| <i>Apistogramma ortmanni</i> | Japurá, Branco, Amazonas main channel, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo | |
| <i>Apistogramma panduro</i> * | Endemic – Amazonas main channel | |
| <i>Apistogramma pantalone</i> * | Endemic – Marañon | |
| <i>Apistogramma paucisquamis</i> * | Negro, Amazonas main channel | |
| <i>Apistogramma paulmuelleri</i> * | Endemic – Amazonas main channel | |
| <i>Apistogramma payaminonis</i> * | Endemic – Napo-Ambyiacu | |
| <i>Apistogramma personata</i> * | Endemic – Negro | |
| <i>Apistogramma pertensis</i> * | Tapajós, Tefé, Japurá, Negro, Trombetas, Jari, Amazonas main channel | |
| <i>Apistogramma playayacu</i> * | Endemic – Napo-Ambyiacu | |
| <i>Apistogramma pulchra</i> * | Endemic – Middle-lower Madeira | |
| <i>Apistogramma regani</i> * | Lower Xingu, Negro, Branco, Amazonas main channel | |
| <i>Apistogramma resticulosa</i> | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Negro, Amazonas main channel, Araguari-Macari-Amapá | |
| <i>Apistogramma rositae</i> * | Endemic – Marañon | |
| <i>Apistogramma rubrolineata</i> * | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) | |
| <i>Apistogramma rupununi</i> | Branco, Essequibo | |
| <i>Apistogramma salpinction</i> * | Endemic – Trombetas | |
| <i>Apistogramma similis</i> * | Restricted to Madeira basin (Mamoré, Beni-Madre de Dios) | |
| <i>Apistogramma sororcula</i> * | Endemic – Guaporé | |
| <i>Apistogramma staeki</i> * | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) | |
| <i>Apistogramma steindachneri</i> | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo | |
| <i>Apistogramma taeniata</i> * | Endemic – Tapajós | |
| <i>Apistogramma trifasciata</i> | Mamoré, Guaporé, Beni-Madre de Dios, Paraná-Paraguay | |
| <i>Apistogramma tucurui</i> | Lower Tocantins, Capim | |
| <i>Apistogramma uaupesi</i> | Negro, upper Orinoco | |
| <i>Apistogramma urteagai</i> * | Endemic – Beni-Madre de Dios | |
| <i>Apistogramma wapisana</i> * | Endemic – Branco | |
| <i>Apistogrammoides pucallpaensis</i> * | Marañon-Nanay, Amazonas main channel | |
| <i>Astronotus crassipinnis</i> | Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Branco, Amazonas main channel, Amazonas Estuary, Paraná-Paraguay | |
| <i>Astronotus ocellatus</i> | Upper Tocantins, Araguaia, lower Tocantins, Tapajós, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, lower Orinoco | |

| Taxon | Species | Occurrence |
|--|---------|---|
| <i>Biotodoma cupido</i> | | Araguaia, lower Tocantins, Teles Pires, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Corentyne-Demerara, Essequibo |
| <i>Biotodoma wavrini</i> | | Japurá, Negro, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Biotoeus dicentrarchus</i> | | Negro, lower Orinoco, upper Orinoco |
| <i>Biotoeus opercularis</i> * | | Middle-lower Madeira, Purus, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Bujurquina apoparuana</i> * | | Endemic – Ucayali |
| <i>Bujurquina cordemadii</i> * | | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) |
| <i>Bujurquina eurhinus</i> * | | Restricted to Madeira basin (Beni-Madre de Dios, middle-lower Madeira) |
| <i>Bujurquina hophrys</i> * | | Endemic – Ucayali |
| <i>Bujurquina huallagae</i> * | | Marañon-Nanay, Putumayo |
| <i>Bujurquina labiosa</i> * | | Endemic – Ucayali |
| <i>Bujurquina mariae</i> | | Putumayo, Japurá, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Bujurquina megalospilus</i> * | | Endemic – Ucayali |
| <i>Bujurquina moriorum</i> * | | Ucayali, Amazonas main channel |
| <i>Bujurquina ortegai</i> * | | Marañon-Nanay, Putumayo |
| <i>Bujurquina pardus</i> * | | Endemic – Marañon |
| <i>Bujurquina peregrinabunda</i> * | | Putumayo, Japurá, Amazonas main channel |
| <i>Bujurquina robusta</i> * | | Juruá, Ucayali |
| <i>Bujurquina sypilus</i> * | | Ucayali, Amazonas main channel |
| <i>Bujurquina tambopatae</i> * | | Endemic – Beni-Madre de Dios |
| <i>Bujurquina vittata</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Paraná-Paraguay |
| <i>Bujurquina zamorensis</i> * | | Endemic – Marañon |
| <i>Caquetaia myersi</i> * | | Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Caquetaia spectabilis</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Capim, Araguari-Macari-Amapá |
| <i>Chaetobranchopsis orbicularis</i> * | | Lower Tocantins, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Branco, Amazonas main channel, Amazonas Estuary |
| <i>Chaetobranchus flavescens</i> | | Araguaia, lower Tocantins, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Napo-Ambyiacu, Putumayo, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Chaetobranchus semifasciatus</i> * | | Middle-lower Madeira, Purus, Tefé, Japurá, Amazonas main channel |
| <i>Cichla jariina</i> * | | Endemic – Jari |
| <i>Cichla kelberi</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Amazonas Estuary |
| <i>Cichla melaniae</i> * | | Restricted to Xingu basin (upper Xingu, Iri, lower Xingu) |
| <i>Cichla mirianae</i> * | | Upper Xingu, lower Xingu, Teles Pires, Juruena, Jamanxim |
| <i>Cichla monoculus</i> | | Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Ucayali, Napo-Ambyiacu, Putumayo, Negro, Branco, Amazonas main channel, Amazonas Estuary, Araguari-Macari-Amapá, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, upper Orinoco |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|--|
| <i>Cichla nigromaculata</i> * | | Endemic – Negro |
| <i>Cichla ocellaris</i> | | Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Cichla orinocensis</i> | | Negro, Branco, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Cichla pinima</i> | | Lower Tocantins, lower Xingu, Teles Pires, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Amazonas Estuary, Capim |
| <i>Cichla piquiti</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia, lower Tocantins) |
| <i>Cichla pleiozona</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Amazonas main channel |
| <i>Cichla temensis</i> | | Negro, Branco, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Cichla thyrurus</i> * | | Endemic – Trombetas |
| <i>Cichla vazzoleri</i> * | | Urubu-Uatumã, Trombetas |
| <i>Cichlasoma amazonarum</i> * | | Upper Tocantins, lower Tocantins, Mamoré, Guaporé, middle-lower Madeira, Juruá, Ucayali, Marañon-Nanay, Putumayo, Amazonas main channel, Amazonas Estuary |
| <i>Cichlasoma araguaense</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu |
| <i>Cichlasoma bimaculatum</i> | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, Branco, Amazonas main channel, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Cichlasoma boliviense</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus |
| <i>Cichlasoma sanctifranciscense</i> | | Upper Tocantins, Parnaíba, São Francisco |
| <i>Crenicara latruncularium</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios) |
| <i>Crenicara punctulata</i> | | Lower Tocantins, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Branco, Amazonas main channel, Essequibo |
| <i>Crenicichla acutirostris</i> | | Upper Xingu, lower Xingu, Teles Pires, Tapajós, Madeira Shield Tributaries, Branco, Amazonas main channel, Essequibo |
| <i>Crenicichla adspersa</i> * | | Lower Tocantins, Tapajós, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Urubu-Uatumã, Amazonas main channel |
| <i>Crenicichla albopunctata</i> | | Jari, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara |
| <i>Crenicichla alta</i> | | Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco, upper Orinoco |
| <i>Crenicichla anamiri</i> * | | Endemic – lower Xingu |
| <i>Crenicichla anthurus</i> * | | Ucayali, Marañon-Nanay, Putumayo, Japurá, Branco |
| <i>Crenicichla cametana</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu |
| <i>Crenicichla chicha</i> * | | Endemic – Juruena |
| <i>Crenicichla cincta</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Purus, Napo-Ambyiacu, Putumayo, Amazonas main channel, Amazonas Estuary |
| <i>Crenicichla compressiceps</i> * | | Endemic – lower Tocantins |
| <i>Crenicichla cyanonotus</i> | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Ucayali, Amazonas main channel, Itapicuru-Mearim, Apure |
| <i>Crenicichla cyclostoma</i> * | | Endemic – lower Tocantins |
| <i>Crenicichla dandara</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Crenicichla heckeli</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Trombetas |

| Taxon | Species | Occurrence |
|------------------------------------|---------|--|
| <i>Crenicichla hemera</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Crenicichla hummelincki</i> * | | Endemic – Trombetas |
| <i>Crenicichla inpa</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, middle-lower Madeira, Negro, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Crenicichla isbrueckeri</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Crenicichla jegui</i> * | | Endemic – lower Tocantins |
| <i>Crenicichla johanna</i> | | Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, Jamaxim, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Tefé, Juruá, Ucayali, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Oiapoque, Corentyne-Demerara, Essequibo, upper Orinoco |
| <i>Crenicichla labrina</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Capim, Araguari-Macari-Amapá |
| <i>Crenicichla lenticulata</i> | | Putumayo, Japurá, Negro, Branco, Trombetas, Essequibo, upper Orinoco |
| <i>Crenicichla lepidota</i> | | Araguaia, Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Capim, Paraná-Paraguay |
| <i>Crenicichla lucius</i> * | | Ucayali, Marañon-Nanay, Napo-Ambyiacu, Amazonas main channel |
| <i>Crenicichla lugubris</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Juruena, Tapajós, Jamaxim, Guaporé, middle-lower Madeira, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Coppenname-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco |
| <i>Crenicichla macrophthalma</i> * | | Upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Negro, Trombetas, Amazonas main channel |
| <i>Crenicichla marmorata</i> * | | Lower Tocantins, Iriri, lower Xingu, middle-lower Madeira, Madeira Shield Tributaries, Trombetas, Jari, Amazonas main channel |
| <i>Crenicichla monicae</i> * | | Endemic – Negro |
| <i>Crenicichla notophthalmus</i> | | Negro, Amazonas main channel, Capim |
| <i>Crenicichla pellegrini</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Crenicichla perca</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Crenicichla phaiospilus</i> * | | Endemic – upper Xingu |
| <i>Crenicichla ploegi</i> | | Juruena, Paraná-Paraguay |
| <i>Crenicichla proteus</i> * | | Mamoré, Beni-Madre de Dios, Purus, Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Crenicichla pydanielae</i> * | | Endemic – Trombetas |
| <i>Crenicichla regani</i> | | Araguaia, lower Tocantins, Teles Pires, Tapajós, Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Branco, Urubu-Uatumã, Trombetas, Curuá-Paru do Oeste, Jari, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Crenicichla reticulata</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Napo-Ambyiacu, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Gurupi-Turiaçu, Essequibo, upper Orinoco |
| <i>Crenicichla rosemariae</i> * | | Endemic – upper Xingu |
| <i>Crenicichla santosi</i> * | | Mamoré, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Amazonas main channel |

| Taxon | Species | Occurrence |
|----------------------------------|---------|--|
| <i>Crenicichla saxatilis</i> | | Upper Xingu, lower Xingu, Teles Pires, Putumayo, Japurá, Branco, Amazonas main channel, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Crenicichla sedentaria</i> | | Juruá, Ucayali, Marañon-Nanay, Napo-Ambyiacu, upper Orinoco |
| <i>Crenicichla semicincta</i> * | | Teles Pires, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá |
| <i>Crenicichla stocki</i> * | | Endemic – lower Tocantins |
| <i>Crenicichla strigata</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Capim, Essequibo |
| <i>Crenicichla tigrina</i> * | | Endemic – Trombetas |
| <i>Crenicichla urosema</i> * | | Restricted to Tapajós basin (Tapajós, Jamanxim) |
| <i>Crenicichla virgatula</i> * | | Restricted to Negro basin (Negro, Branco) |
| <i>Crenicichla vittata</i> | | Mamoré, Paraná-Paraguay |
| <i>Crenicichla wallacii</i> | | Lower Tocantins, Negro, Branco, Essequibo, lower Orinoco, upper Orinoco |
| <i>Dicrossus filamentosus</i> | | Negro, Branco, lower Orinoco, upper Orinoco |
| <i>Dicrossus foirni</i> * | | Endemic – Negro |
| <i>Dicrossus maculatus</i> * | | Middle-lower Madeira, Branco, Amazonas main channel |
| <i>Dicrossus warzeli</i> * | | Restricted to Tapajós basin (Teles Pires, Tapajós) |
| <i>Geophagus abalios</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Geophagus altifrons</i> | | Upper Tocantins, lower Tocantins, upper Xingu, Iriri, lower Xingu, Tapajós, middle-lower Madeira, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Capim |
| <i>Geophagus argyrostictus</i> * | | Restricted to Xingu basin (upper Xingu, Iriri, lower Xingu) |
| <i>Geophagus dicrozoster</i> | | Negro, lower Orinoco, upper Orinoco, Apure |
| <i>Geophagus megasema</i> * | | Guaporé, Beni-Madre de Dios, middle-lower Madeira, Japurá |
| <i>Geophagus mirabilis</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Geophagus neambi</i> * | | Upper Tocantins, Araguaia, lower Tocantins, lower Xingu, Teles Pires, Tapajós |
| <i>Geophagus proximus</i> * | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Ucayali, Japurá, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Geophagus surinamensis</i> | | Putumayo, Japurá, Branco, Maroni-Approuague, Coppename-Suriname-Saramacca, Essequibo |
| <i>Geophagus sveni</i> * | | Restricted to Tocantins basin (upper Tocantins, Araguaia) |
| <i>Geophagus winemilleri</i> | | Japurá, Negro, upper Orinoco |
| <i>Guianacara dacrya</i> | | Branco, Essequibo |
| <i>Guianacara sphenozona</i> | | Branco, Corentyne-Demerara, Essequibo |
| <i>Gymnogeophagus balzanii</i> | | Guaporé, Paraná-Paraguay |
| <i>Heroina isonycterina</i> * | | Marañon-Nanay, Napo-Ambyiacu, Japurá |
| <i>Heros efasciatus</i> | | Lower Tocantins, upper Xingu, lower Xingu, Tapajós, Madeira Shield Tributaries, Tefé, Juruá, Ucayali, Urubu-Uatumã, Trombetas, Amazonas main channel, Oiapoque |
| <i>Heros notatus</i> | | Upper Tocantins, Araguaia, Negro, Branco, Amazonas main channel, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Corentyne-Demerara, Essequibo |

| Taxon | Species | Occurrence |
|--------------------------------------|---------|---|
| <i>Heros severus</i> | | Negro, upper Orinoco |
| <i>Heros spurius</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, middle-lower Madeira) |
| <i>Hoplarchus psittacus</i> | | Middle-lower Madeira, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Hypselecara coryphaenoides</i> | | Tapajós, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Hypselecara temporalis</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Ucayali, Putumayo, Japurá, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque |
| <i>Ivanacara adoketa</i> * | | Endemic – Negro |
| <i>Krobia xinguensis</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Laetacara araguaiae</i> | | Upper Tocantins, Araguaia, upper Xingu, Teles Pires, Tapajós, Paraná-Paraguay |
| <i>Laetacara curviceps</i> * | | Trombetas, Amazonas main channel, Capim |
| <i>Laetacara flavilabris</i> * | | Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Amazonas main channel |
| <i>Laetacara fulvipinnis</i> | | Negro, upper Orinoco |
| <i>Laetacara thayeri</i> * | | Middle-lower Madeira, Purus, Coari-Urucu, Tefé, Marañon-Nanay, Negro, Amazonas main channel |
| <i>Mesonauta acora</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, lower Xingu, Capim |
| <i>Mesonauta festivus</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Putumayo, Japurá, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary, Araguari-Macari-Amapá, Essequibo, upper Orinoco, Paraná-Paraguay |
| <i>Mesonauta guyanae</i> | | Lower Tocantins, Tapajós, middle-lower Madeira, Negro, Branco, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Mesonauta insignis</i> | | Guaporé, Beni-Madre de Dios, middle-lower Madeira, Putumayo, Negro, Branco, Urubu-Uatumã, Amazonas main channel, lower Orinoco, upper Orinoco, Apure |
| <i>Mesonauta mirificus</i> * | | Ucayali, Putumayo, Japurá, Amazonas main channel |
| <i>Mikrogeophagus altispinosus</i> * | | Restricted to Madeira basin (Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira) |
| <i>Pterophyllum altum</i> | | Negro, upper Orinoco |
| <i>Pterophyllum leopoldi</i> | | Lower Tocantins, Putumayo, Negro, Branco, Amazonas main channel, Amazonas Estuary, Gurupi-Turiaçu, Essequibo |
| <i>Pterophyllum scalare</i> | | Araguaia, lower Tocantins, lower Xingu, middle-lower Madeira, Purus, Javari, Ucayali, Putumayo, Japurá, Branco, Jari, Amazonas main channel, Amazonas Estuary, Capim, Oiapoque, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo |
| <i>Retroculus acherontos</i> * | | Endemic – upper Tocantins |
| <i>Retroculus lapidifer</i> | | Upper Tocantins, Araguaia, lower Tocantins, Capim |
| <i>Retroculus xinguensis</i> * | | Upper Xingu, Iri, lower Xingu, Tapajós, Jamanxim |
| <i>Rondonacara hoehnei</i> * | | Endemic – Araguaia |
| <i>Satanoperca acuticeps</i> * | | Beni-Madre de Dios, middle-lower Madeira, Purus, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Satanoperca curupira</i> * | | Endemic – Madeira Shield Tributaries |
| <i>Satanoperca daemon</i> | | Putumayo, Japurá, Negro, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|---|---------|--|
| <i>Satanoperca jurupari</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Paru, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Capim, Araguari-Macari-Amapá, Oiapoque, Essequibo, upper Orinoco |
| <i>Satanoperca leucosticta</i> | | Middle-lower Madeira, Madeira Shield Tributaries, Purus, Juruá, Branco, Urubu-Uatumã, Amazonas main channel, Coarentyne-Demerara, Essequibo |
| <i>Satanoperca lilith</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Satanoperca pappaterra</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Japurá, Amazonas main channel, Paraná-Paraguay |
| <i>Symphysodon aequifasciatus</i> | | Upper Xingu, lower Xingu, Tapajós, Coari-Uruçu, Tefé, Putumayo, Japurá, Negro, Trombetas, Amazonas main channel, Amazonas Estuary, Capim |
| <i>Symphysodon discus</i> * | | Middle-lower Madeira, Negro, Trombetas |
| <i>Symphysodon haraldi</i> * | | Middle-lower Madeira, Purus, Amazonas main channel |
| <i>Symphysodon tarzoo</i> * | | Middle-lower Madeira, Tefé, Juruá, Jutá, Amazonas main channel |
| <i>Taeniacara candidi</i> * | | Lower Xingu, Tapajós, middle-lower Madeira, Negro, Branco, Trombetas, Amazonas main channel |
| <i>Tahuantinsuyoa chipi</i> * | | Endemic – Ucayali |
| <i>Tahuantinsuyoa macantzatza</i> * | | Endemic – Ucayali |
| <i>Teleocichla centisquama</i> * | | Restricted to Xingu basin (Iri, lower Xingu) |
| <i>Teleocichla centrarchus</i> * | | Restricted to Xingu basin (upper Xingu, Iri, lower Xingu) |
| <i>Teleocichla cinderella</i> * | | Restricted to Tocantins basin (Araguaia, lower Tocantins) |
| <i>Teleocichla gephyrogramma</i> * | | Restricted to Xingu basin (upper Xingu, Iri, lower Xingu) |
| <i>Teleocichla monogramma</i> * | | Restricted to Xingu basin (upper Xingu, lower Xingu) |
| <i>Teleocichla preta</i> * | | Restricted to Xingu basin (upper Xingu, Iri, lower Xingu) |
| <i>Teleocichla prionogenys</i> * | | Iri, Tapajós, Jamanxim |
| <i>Teleocichla proselytus</i> * | | Upper Xingu, Tapajós |
| <i>Teleocichla wajapi</i> * | | Endemic – Jari |
| <i>Uaru amphiacanthoides</i> * | | Lower Xingu, Tapajós, middle-lower Madeira, Purus, Tefé, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Amazonas Estuary |
| Eleotridae | 9 | |
| <i>Dormitator maculatus</i> * | | Lower Tocantins, Amazonas Estuary |
| <i>Eleotris pisonis</i> | | Lower Tocantins, lower Xingu, Amazonas main channel, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, lower Orinoco |
| <i>Leptophilypnion fittkaui</i> * | | Endemic – Negro |
| <i>Leptophilypnion pusillus</i> * | | Endemic – Tapajós |
| <i>Microphilypnus acangaquara</i> * | | Endemic – Tapajós |
| <i>Microphilypnus hypolyrasimeion</i> * | | Endemic – Negro |
| <i>Microphilypnus macrostoma</i> | | Negro, Amazonas main channel, lower Orinoco, upper Orinoco |
| <i>Microphilypnus tapajosensis</i> * | | Endemic – Tapajós |
| <i>Microphilypnus ternetzi</i> | | Lower Tocantins, Teles Pires, Tapajós, Mamoré, middle-lower Madeira, Madeira Shield Tributaries, Purus, Japurá, Negro, Branco, Amazonas main channel, Capim, lower Orinoco, upper Orinoco |

| Taxon | Species | Occurrence |
|-----------------------------------|---------|---|
| Gobiidae | 1 | |
| <i>Awaous flavus</i> | | Lower Tocantins, lower Xingu, Maroni-Approuague, Corentyne-Demerara, Essequibo, lower Orinoco, Cauca-Magdalena-Sinu, Atrato |
| Polycentridae | 3 | |
| <i>Monocirrhus polyacanthus</i> | | Lower Xingu, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Coari-Urucu, Tefé, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Capim, lower Orinoco, upper Orinoco, Apure |
| <i>Polycentrus jundia</i> * | | Endemic – Negro |
| <i>Polycentrus schomburgkii</i> | | Jari, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, Apure |
| Sciaenidae | 15 | |
| <i>Pachypops fourcroyi</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Guaporé, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim, Araguari-Macari-Amapá, Oiapoque, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |
| <i>Pachypops pigmaeus</i> * | | Middle-lower Madeira, Madeira Shield Tributaries, Branco, Trombetas |
| <i>Pachypops trifilis</i> | | Mamoré, Guaporé, Purus, Tefé, Juruá, Japurá, Negro, Urubu-Uatumã, Trombetas, Amazonas main channel, Maroni-Approuague, Essequibo |
| <i>Pachyurus calhamazon</i> * | | Branco, Trombetas |
| <i>Pachyurus gabrielensis</i> | | Purus, Ucayali, Marañon-Nanay, Negro, Branco, upper Orinoco |
| <i>Pachyurus junki</i> * | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Jamanxim, Madeira Shield Tributaries, Negro, Branco, Amazonas main channel |
| <i>Pachyurus paucirastrus</i> * | | Upper Tocantins, Araguaia, lower Tocantins, Mamoré, middle-lower Madeira, Trombetas, Amazonas main channel |
| <i>Pachyurus schomburgkii</i> | | Araguaia, lower Tocantins, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Juruá, Putumayo, Japurá, Negro, Branco, Urubu-Uatumã, Trombetas, Jari, Amazonas Estuary, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco, upper Orinoco |
| <i>Pachyurus stewarti</i> * | | Beni-Madre de Dios, Purus, Napo-Ambyiacu |
| <i>Petilipinnis grunniens</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, middle-lower Madeira, Madeira Shield Tributaries, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel, Essequibo |
| <i>Plagioscion auratus</i> | | Lower Tocantins, Amazonas main channel, Capim, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco |
| <i>Plagioscion magdalenae</i> | | Lower Tocantins, Iriri, lower Xingu, Trombetas, Amazonas main channel, Amazonas Estuary, Capim, Araguari-Macari-Amapá, Cauca-Magdalena-Sinu |
| <i>Plagioscion montei</i> * | | Middle-lower Madeira, Purus, Juruá, Ucayali, Negro, Branco, Urubu-Uatumã, Trombetas, Amazonas main channel |
| <i>Plagioscion squamosissimus</i> | | Upper Tocantins, Araguaia, lower Tocantins, upper Xingu, Iriri, lower Xingu, Teles Pires, Juruena, Tapajós, Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Madeira Shield Tributaries, Purus, Tefé, Juruá, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Parnaíba, Itapicuru-Mearim, Capim, Araguari-Macari-Amapá, Maroni-Approuague, Coppename-Suriname-Saramacca, Corentyne-Demerara, Essequibo, lower Orinoco, upper Orinoco, Apure |

| Taxon | Species | Occurrence |
|------------------------------------|----------|---|
| <i>Plagioscion surinamensis</i> | | Trombetas, Essequibo, Cauca-Magdalen-Sinu |
| Pleuronectiformes | 9 | |
| Achiridae | 9 | |
| <i>Achirus achirus</i> * | | Lower Tocantins |
| <i>Apionichthys asphyxiatus</i> * | | Araguaia, Amazonas main channel |
| <i>Apionichthys dumerili</i> | | Lower Tocantins, Japurá, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Itapicuru-Mearim, Coppename-Suriname-Saramacca, Corentyne-Demerara, lower Orinoco |
| <i>Apionichthys menezesi</i> | | Napo-Ambyiacu, Negro, lower Orinoco |
| <i>Apionichthys nattereri</i> * | | Mamoré, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Javari, Marañon-Nanay, Napo-Ambyiacu, Negro, Amazonas main channel |
| <i>Apionichthys rosai</i> * | | Middle-lower Madeira, Ucayali, Amazonas main channel, Amazonas Estuary |
| <i>Apionichthys seripierriae</i> * | | Middle-lower Madeira, Napo-Ambyiacu, Branco, Amazonas main channel |
| <i>Hypoclinemus mentalis</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, Teles Pires, Tapajós, Guaporé, Beni-Madre de Dios, middle-lower Madeira, Purus, Juruá, Javari, Ucayali, Marañon-Nanay, Napo-Ambyiacu, Putumayo, Japurá, Negro, Branco, Trombetas, Jari, Amazonas main channel, Amazonas Estuary, Essequibo, lower Orinoco, upper Orinoco |
| <i>Soleonassus finis</i> | | Mamoré, middle-lower Madeira, Purus, Juruá, Ucayali, Marañon-Nanay, Branco, Amazonas main channel, Essequibo |
| Tetraodontiformes | 2 | |
| Tetraodontidae | 2 | |
| <i>Colomesus asellus</i> | | Araguaia, lower Tocantins, upper Xingu, lower Xingu, middle-lower Madeira, Napo-Ambyiacu, Putumayo, Japurá, Branco, Trombetas, Amazonas main channel, Essequibo, lower Orinoco |
| <i>Colomesus tocantinensis</i> * | | Lower Tocantins, Teles Pires |
| Ceratodontiformes | 1 | |
| Lepidosirenidae | 1 | |
| <i>Lepidosiren paradoxa</i> | | Mamoré, Guaporé, Beni-Madre de Dios, Amazonas main channel, Amazonas Estuary, upper Orinoco, Paraná-Paraguay |

APPENDIX 2

STATISTICAL TEST FOR SPECIES WITH
DISTRIBUTION MAPS

H_0 : The species is randomly distributed. H_1 : The species is not randomly distributed. $X^2 = \sum [(O - E)^2 / E]$, where: E is the expected frequency (species can occur inside or outside of the defined limits of the distribution pattern. Thus, E is the number of records of a species divided by 2 possibilities [inside or outside]); and O is the Observed frequency (observed number of records of the species inside the defined limits of the distribution pattern). Degrees of freedom ($2 - 1 = 1$). Conventionally accepted significance level of 0.05 (Chi square distribution table 3.841).

Test for species with
"Broadly distributed lineages"**A, *Hoplias malabaricus*, 249 records**

Expected inside: 124.5; observed inside: 249; expected outside: 124.5; observed outside: 0; $X^2 = 249$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Erythrinus erythrinus*, 41 records

Expected inside: 20.5; observed inside: 41; expected outside: 20.5; observed outside: 0; $X^2 = 41$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Hoplerythrinus unitaeniatus*, 95 records

Expected inside: 47.5; Observed inside: 95; Expected outside: 47.5; Observed outside: 0; $X^2 = 95$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

D, *Synbranchus marmoratus*, 144

Expected inside: 72; observed inside: 144; expected outside: 72; observed outside: 0; $X^2 = 144$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

E, *Callichthys callichthys*, 110 records

Expected inside: 55; observed inside: 109; expected outside: 55; observed outside: 1; $X^2 = 106.03$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazon Core" distribution

A, *Boullengerella* spp., 176 records

Expected inside: 88; observed inside: 176; expected outside: 88; observed outside: 0; $X^2 = 176$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Moenkhausia collettii*, 113 records

Expected inside: 56.5; observed inside: 113; expected outside: 56.5; observed outside: 0; $X^2 = 113$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Moenkhausia oligolepis*, 104 records

Expected inside: 52; observed inside: 104; expected outside: 52; observed outside: 0; $X^2 = 104$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazon and Orinoco Lowlands"
distribution**A, *Moenkhausia lepidura*, 51 records**

Expected inside: 25.5; observed inside: 51; expected outside: 25.5; observed outside: 0; $X^2 = 51$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Potamorhina altamazonica*, 29 records

Expected inside: 14.5; observed inside: 29; expected outside: 14.5; observed outside: 0; $X^2 = 29$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Vandellia cirrhosa*, 75 records

Expected inside: 37.5; observed inside: 74; expected outside: 37.5; observed outside: 1; $X^2 = 71$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazon and Paraguay Lowlands"
distribution**A, *Hemigrammus lunatus*, 21 records**

Expected inside: 10.5; observed inside: 21; expected outside: 10.5; observed outside: 0; $X^2 = 21$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Epiplatys spilargyreus*, 12 records

Expected inside: 6; observed inside: 12; expected outside: 6; observed outside: 0; $X^2 = 12$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Mesonauta festivus*, 33 records

Expected inside: 16.5; observed inside: 32; expected outside: 16.5; observed outside: 1; $X^2 = 29.12$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazonas-Paraguay-Orinoco
Lowland" distribution

A, *Rhaphiodon vulpinus*, 152 records

Expected inside: 76; observed inside: 143; expected outside: 76; observed outside: 9; $X^2 = 118.13$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Sorubim lima*, 40 records

Expected inside: 20; Observed inside: 39; Expected outside: 20; Observed outside: 1; $X^2 = 36.1$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Hypophthalmus oremaculatus*, 39 records

Expected inside: 19.5; Observed inside: 38; Expected outside: 19.5; Observed outside: 1; $X^2 = 35.1$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazonas-Guyana-Orinoco
Lowland" distribution

A, *Crenuchus* spp., 44 records

Expected inside: 22; observed inside: 44; expected outside: 22; observed outside: 0; $X^2 = 44$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Mesonauta* spp., 64 records

Expected inside: 32; observed inside: 55; expected outside: 32; observed outside: 9; $X^2 = 33$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Hemigrammus unilineatus*, 14 records

Expected inside: 7; observed inside: 14; expected outside: 7; observed outside: 0; $X^2 = 14$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

D, *Hemigrammus ocellifer*, 36 records

Expected inside: 18; observed inside: 36; expected outside: 18; observed outside: 0; $X^2 = 36$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Guyana Mangrove Province"
distribution

A, *Curimata cyprinoides*, 19 records

Expected inside: 9.5; observed inside: 19; expected outside: 9.5; observed outside: 0; $X^2 = 19$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Cyphocharax helleri*, 14 records

Expected inside: 7; observed inside: 14; expected outside: 7; observed outside: 0; $X^2 = 14$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Polycentrus schomburgkii*, 8 records

Expected inside: 4; observed inside: 8; expected outside: 4; observed outside: 0; $X^2 = 8$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Eastern Amazon" distribution

A, *Synaptolaemus latofasciatus*, 12 records

Expected inside: 6; observed inside: 12; expected outside: 6; observed outside: 0; $X^2 = 12$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Aphanothorolus emarginatus*, 46 records

Expected inside: 23; observed inside: 42; expected outside: 23; observed outside: 4; $X^2 = 28$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Pachyurus junki*, 12 records

Expected inside: 6; observed inside: 12; expected outside: 6; observed outside: 0; $X^2 = 12$. $X^2 > 3.841$,

rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazon-core uplands" distribution

A, *Cetopsidium* spp., 41 records

Expected inside: 20.5; observed inside: 32; expected outside: 20.5; observed outside: 9; $X^2 = 12.9$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Hemigrammus ora*, 16 records

Expected inside: 8; observed inside: 16; expected outside: 8; observed outside: 0; $X^2 = 16$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Hoplias aimara*, 41 records

Expected inside: 20.5; observed inside: 41; expected outside: 20.5; observed outside: 0; $X^2 = 41$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Amazonian uplands" distribution

A, *Sartor* spp., 4 records

Expected inside: 2; observed inside: 4; expected outside: 2; observed outside: 0; $X^2 = 4$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Teleocichla* spp., 24 records

Expected inside: 12; observed inside: 24; expected outside: 12; observed outside: 0; $X^2 = 24$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Tocantinsia piresi*, 11 records

Expected inside: 5.5; observed inside: 11; expected outside: 5.5; observed outside: 0; $X^2 = 11$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Guyana Shield" distribution

A, *Pseudancistrus brevispinis*, 18 records

Expected inside: 9; observed inside: 18; expected outside: 9; observed outside: 0; $X^2 = 18$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Longitudinal correspondence among Amazonian Shield versants" distribution

A, *Sartor* gr. *elongatus*, 4 records

Expected inside: 2; observed inside: 4; expected outside: 2; observed outside: 0; $X^2 = 4$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Bryconexodon* spp., 14 records

Expected inside: 7; observed inside: 14; expected outside: 7; observed outside: 0; $X^2 = 14$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Bivibranchia velox*, 18 records

Expected inside: 9; observed inside: 18; expected outside: 9; observed outside: 0; $X^2 = 18$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "Brazilian Shield" distribution

A, *Caiapobrycon* spp., 18 records

Expected inside: 9; observed inside: 18; expected outside: 9; observed outside: 0; $X^2 = 18$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Jupiaba apenima*, 28 records

Expected inside: 14; observed inside: 28; expected outside: 14; observed outside: 0; $X^2 = 28$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Moenkhausia* gr. *pankiloptyryx/pirauaba*, 19 records

Expected inside: 9.5; observed inside: 19; expected outside: 9.5; observed outside: 0; $X^2 = 19$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for "cis-Andean foothills" distribution

A, *Astyanacinus* spp., 23 records

Expected inside: 11.5; observed inside: 23; expected outside: 11.5; observed outside: 0; $X^2 = 23$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

B, *Leporinus striatus*, 71 records

Expected inside: 35.5; observed inside: 50; expected outside: 35.5; observed outside: 21; $X^2 = 11.8$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

C, *Steindachnerina dobula*, 25 records

Expected inside: 12.5; observed inside: 25; expected outside: 12.5; observed outside: 0; $X^2 = 25$. $X^2 > 3.841$, rejects the null hypothesis, i.e., the species is not randomly distributed.

Test for type of the water affecting distribution

H_0 : The distribution of the species is not affected by the type of the water. H_1 : The distribution of the species is affected by the type of the water. $X^2 = \sum [(O - E)^2 / E]$, where: E is the expected frequency (species can occur in black-, white- or clear water). Thus, E is the number of records of a species divided by 3 possibilities (black-, white- or clear water); O is the observed frequency (number of records of the species observed in a determined water type). Degrees of freedom ($3 - 1 = 2$). Conventionally accepted significance level of 0.05 (Chi square distribution table 5.991).

Test for "Amazon-only Lowland" distribution

A, *Cetopsis candiru*, 9 records

Expected black: 3; observed black: 0; expected white: 3; observed white: 8; expected clear: 3; observed clear: 1; $X^2 = 12.6$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

B, *Curimatella meyeri*, 38 records

Expected black: 12; observed black: 2; expected white: 12; observed white: 33; expected clear: 12; observed clear: 3; $X^2 = 51.8$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

C, *Adontosternarchus balaenops*, 21 records

Expected black: 7; observed black: 0; expected white: 7; observed white: 20; expected clear: 7; observed clear: 1; $X^2 = 21.16$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

Test for "Central Blackwater Amazon" distribution

A, *Biotococcus* spp., 19 records

Expected black: 6.33; observed black: 14; expected white: 6.33; observed white: 5; expected clear: 6.33; observed clear: 0; $X^2 = 8.38$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

B, *Dicrossus* spp., 25 records (collecting points in Orinoco were not considered for the water type classification)

Expected black: 8.33; observed black: 16; expected white: 8.33; observed white: 3; expected clear: 8.33; observed clear: 6; $X^2 = 7.72$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

C, *Hemigrammus analis*, 18 records (collecting points in Orinoco were not considered for the water type classification)

Expected black: 6; observed black: 13; expected white: 6; observed white: 1; expected clear: 6; observed clear: 4; $X^2 = 6.5$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

D, *Hemigrammus coeruleus*, 15 records

Expected black: 5; observed black: 12; expected white: 5; observed white: 2; expected clear: 5; observed clear: 1; $X^2 = 6.16$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

E, *Hemigrammus stictus*, 18 records (collecting points in Orinoco were not considered for the water type classification)

Expected black: 6; observed black: 16; expected white: 6; observed white: 3; expected clear: 6; observed clear: 6; $X^2 = 10.16$. $X^2 > 5.991$, rejects the null hypothesis, i.e., the distribution of the species is affected by the type of the water.

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ON THE COVER: DISTRIBUTION PATTERNS OF AMAZONIAN FISHES: (UPPER LEFT) GUIANA MANGROVE PROVINCE; (UPPER RIGHT) AMAZON-ONLY LOWLAND; (LOWER LEFT) CIS-ANDEAN FOOTHILLS; (LOWER RIGHT) EASTERN AMAZON.