**LISTS OF SPECIES**

**Fishes from the Corumbá Reservoir, Paranaíba River drainage, upper Paraná River basin, State of Goiás, Brazil**

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**Abstract**

The Corumbá Reservoir is located in Corumbá River, a tributary to the right bank of Paranaíba River, upper Paraná River basin. Fish were collected monthly, from March 1996 to February 2000, in 17 sampling stations along Corumbá Reservoir and its influence area, using gill nets, casting nets, electrofishing and long lines. Considering the entire period, 119 fish species were collected, which belong to seven Orders, 26 Families, and 78 Genera. Among them, five species are considered endemic to Corumbá River basin, and 17 are probably new to the science.
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except Loricariidae, according to Armbruster (2004). Voucher specimens of each species are deposited in the Coleção de Peixes do Nupélia (Núcleo de Pesquisas em Limnologia, Ictiologia e Aqüicultura), of the Universidade Estadual de Maringá.

Figure 1. Partial map of Brazil and adjoining countries showing Corumbá Reservoir and influence area (green dot), Paranaíba River drainage, State of Goiás, Brazil. 1- Paranaíba River, 2- Grande River, and 3- Paraná River.

Results and discussion
Considering the entire period, 119 fish species belonging to seven Orders, 26 Families, and 78 Genera (Table 1) were collected, among which five species are considered endemic from Corumbá River basin, and 17 are probably new to the science, besides eleven introduced non indigenous species.
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Table 1. Fish species from the Corumbá Reservoir, upper Paraná River basin. Endemic species to that basin are marked with **, introduced species are marked with *, and the regional popular name of each species is provided between quotation marks.

### ACTINOPTERYGII
#### Cypriniformes
##### Cyprinidae
- **Cyprinus carpio** Linnaeus, 1758 – “carpa-comum”*

#### Characiformes
##### Parodontidae
- **Apareiodon affinis** (Steindachner, 1879) – “canivete”
- **Apareiodon ibitiensis** Campos, 1944 – “canivete”
- **Apareiodon piracicabae** (Eigenmann, 1907) – “canivete”
- **Parodon nasus** Kner, 1859 – “canivete”

##### Curimatidae
- **Cyphocharax modestus** (Fernández-Yépez, 1948) – “sagüiru”
- **Steindachnerina corumbae** Pavanelli & Britski, 1999 – “sagüiru”**
- **Steindachnerina insculpta** (Fernández-Yépez, 1948) – “sagüiru”

##### Prochilodontidae
- **Prochilodus lineatus** (Valenciennes, 1836) – “curimbatá”, “curimba”

##### Anostomidae
- **Schizodon nasutus** Kner, 1858 – “ximborê”
- **Characidium gomesi** Travassos, 1956 – “charutinho”, “mocinha”
- **Characidium aff. zebra** Eigenmann, 1909 – “charutinho”, “mocinha”
- **Characidium sp.** – “charutinho”, “mocinha”

### Crenuchidae
#### Characidae
##### Genera Incertae Sedis
- **Astyanax altiparanae** Garutti & Britski, 2000 – “tambiú”
- **Astyanax bockmanni** Vari & Castro, 2007 – “lambari-do-rabo-amarelo”
- **Astyanax aff. fasciatus** (Cuvier, 1819) – “lambari-do-rabo-vermelho”
- **Astyanax aff. paranae** Eigenmann, 1914 – “lambari”
- **Bryconamericus stramineus** Eigenmann, 1908 – “lambari”, “piabinha”
- **Bryconamericus turiuba** Langeani et al., 2005 – “lambari”, “piabinha”
- **Hasemania hanseni** (Fowler, 1949) – “lambarizinho”
- **Hyphessobrycon balbus** Myers, 1927 – “lambarizinho”
- **Moenkhausia aff. intermedia** Eigenmann, 1908 – “pequira”
- **Oligosarcus planaltinae** Menezes & Géry, 1983 – “saicanga”
- **Piabina argentea** Reinhardt, 1867 – “lambari”
- **Salminus brasiliensis** (Cuvier, 1816) – “dourado”
- **Salminus hilarii** Valenciennes, 1850 – “tabarana”
- **Triportheus nematus** (Kner, 1858) – “sardela”
| Family                        | Species                                                                 | Common Names                  |
|-------------------------------|--------------------------------------------------------------------------|-------------------------------|
| **Bryconinae**                | *Brycon amazonicus* (Spix & Agassiz, 1829) – “piraputanga”*              |                               |
|                               | *Brycon nattereri* Günther, 1864 – “piraputanga”                          |                               |
|                               | *Brycon orbignyanus* (Valenciennes, 1850) – “piraputanga”                |                               |
| **Serrasalminae**             | *Colossoma macropomum* (Cuvier, 1818) – “tambaqui”*                      |                               |
|                               | *Metynnis cf. lippincottianus* (Cope, 1870) – “pacu”                      |                               |
|                               | *Myloplus tiete* (Eigenmann & Norris, 1900) – “pacu-prata”                |                               |
|                               | *Piaractus mesopotamicus* (Holmberg, 1887) – “pacu”                        |                               |
|                               | *Serrasalmus maculatus* Kner, 1858 – “piranha”                            |                               |
| **Characinae**                | *Galeocharax knerii* Steindachner, 1879 – “saicanga”                      |                               |
| **Cheirodontinae**            | *Odontostilbe* sp. – “lambarizinho”                                       |                               |
| **Glandulocaudinae**          | *Planaltina myersi* Böhlke, 1954 – “lambari”**                            |                               |
| **Acestrorhynchidae**         | *Acestrorhynchus lacustris* (Lütken, 1875) – “peixe-cachorro”            |                               |
| **Erythrinidae**              | *Erythrinus erythrinus* (Bloch & Schneider, 1801) – “jeju”*               |                               |
| **Lebiasinidae**              | *Pyrrhulina australis* Eigenmann & Kennedy, 1903                          |                               |
| **Siluriformes**              | *Cetopsis gobioides* Kner, 1858 – “candiru”                               |                               |
| **Trichomycteridae**          | *Iuglanis* sp. – “candiru”                                                |                               |
|                               | *Paravandellia oxyptera* Miranda-Ribeiro, 1912 – “candiru-vampiro”       |                               |
| **Callichthyidae**            | *Aspidoras fuscoguttatus* Nijssen & Isbrücker, 1976 – “coridoras”        |                               |
|                               | *Callichthys callichthys* (Linnaeus, 1758) – “camboja, tamboata”          |                               |
|                               | *Corydoras difluviatilis* Britto & Castro, 2002 – “limpa-vidro”           |                               |
|                               | *Hoplosternum littorale* (Hancock, 1828) – “tamboata”                     |                               |
| **Loricariidae**              | *Neoplecostomus* sp. – “cascudinho”**                                     |                               |
| **Neoplecostominae**          | New genus – “cascudinho”**                                                |                               |
| **Hypopectomatinae**          | *Loricaria prolixa* Isbrücker & Nijssen, 1978 – “rapa-canoa”             |                               |
|                               | *Rineloricaria cf. latirostris* (Boulenger, 1900) – “rapa-canoa”          |                               |
| **Hypostominae**              | *Hyphostomus ancistroides* (Ihering, 1911) – “cascudo”                    |                               |
|                               | *Hyphostomus iheringi* (Regan,1908) – “cascudo”                           |                               |
|                               | *Hyphostomus margaritifer* (Regan, 1908) – “cascudo”                      |                               |
|                               | *Hyphostomus nigromaculatus* (Schubart, 1964) – “cascudo”                 |                               |
|                               | *Hyphostomus regani* (Ihering, 1905) – “cascudo”                          |                               |
|                               | *Hyphostomus strigaticeps* (Regan, 1908) – “cascudo”                      |                               |
|                               | *Hyphostomus sp. 1 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 2 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 3 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 4 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 5 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 6 – “cascudo”                                            |                               |
|                               | *Hyphostomus sp. 7 – “cascudo”                                            |                               |
|                               | *Megalancistrus* sp. – “cascudo-abacaxi”                                   |                               |
| **Pseudopimelodidae**         | *Pseudopimelodus mangurus* (Valenciennes, 1835) – “bagre-sapo”            |                               |
|                               | *Pseudopimelodus pulcher* (Boulenger, 1887) – “bagre-sapo”                |                               |
# Lists of Species

**Heptapteridae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Cetopsorhamdia iheringi* | Schubart & Gomes, 1959 | “bagre” |
| *Imparfinis borodini* | Mees & Cala, 1989 | “bagre pedra” |
| *Imparfinis schubarti* | Gomes, 1956 | “bagrinho” |
| *Phenacorhamdia tenebrosa* | Schubart, 1964 | “bagrinho” |
| *Pimelodella avanhandaevae* | Eigenmann, 1917 | “mendi-chorão” |
| *Pimelodella gracilis* | Valenciennes, 1835 | “mendi-chorão” |

**Pimelodidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Iheringichthys labrosus* | Lütken, 1874 | “mandi-beiçudo” |
| *Megalonema platanum* | Günther, 1880 | “bagre” |
| *Pimelodus heraldoi* | Azpelicueta, 2001 | “mendi” |
| *Pimelodus maculatus* | La Cepède, 1803 | “mendi” |
| *Pimelodus paranaensis* | Britski & Langeani, 1988 | “mendi” |
| *Pimelodus sp.* | | “mendi” |
| *Pinirampus pirinampu* | Spix & Agassiz, 1829 | “barbado” |
| *Pseudoplatystoma corruscans* | Spix & Agassiz, 1829 | “pintado” |
| *Sorubim lima* | Bloch & Schneider, 1801 | “bico-de-pato” |
| *Steindachneridion scriptum* | Miranda-Ribeiro, 1918 | “sorubim” |
| *Zungaro zungaro* | Humboldt, 1821 | “jau” |

**Doradidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Rhinodoras dorbignyi* | Kner, 1855 | “armado” |

**Auchenipteridae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Ageneiosus militaris* | Valenciennes, 1836 | “manduvê” |
| *Glanidium cesarpintoi* | Lhering, 1928 | “bocudo” |
| *Tatia neivai* | Lhering, 1930 | “bocudo” |

**Clariidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Clarias gariepinus* | Burchell, 1822 | “bagre-africano” |

**Gymnotiformes**

**Gymnotidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Gymnotus inaequilabiatus* | Valenciennes, 1839 | “morenita, tuvira” |

**Sternopygidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Eigenmannia trilineata* | López & Castello, 1966 | “espadinha” |
| *Eigenmannia sp.* | | “espadinha” |
| *Sternopygus macrurus* | Bloch & Schneider, 1801 | “itui” |
| *Apteronotus sp.* | | “itui” |

**Apteronotidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Porotergus ellisi* | Arámburu, 1957 | “itui” |

**Cyprinodontiformes**

**Poeciliidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Poecilia reticulata* | Peters, 1859 | “guaru” |
| *Xiphophorus hellerii* | Heckel, 1848 | “espadinha” |

**Synbranchiformes**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Synbranchus marmoratus* | Bloch, 1795 | “muçum” |

**Perciformes**

**Cichlidae**

| Species | Author | Common Name |
|---------|--------|-------------|
| *Cichla kelberi* | Kullander & Ferreira, 2006 | “tucunaré” |
| *Cichlasoma paranaense* | Kullander, 1983 | “cará” |
| *Crenicichla haraldoi* | Luengo & Britski, 1974 | “joaninha” |
| *Crenicichla niederleinti* | Holmberg, 1891 | “joaninha” |
| *Laetacara sp.* | | “cará” |
| *Satanoperca pappaterra* | Heckel, 1840 | “cará” |
| *Oreochromis niloticus* | Linnaeus, 1758 | “tilápia-do-Nilo” |
| *Tilapia rendalli* | Boulenger, 1897 | “tilápia” |
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Luz-Agostinho et al. (2006) studied food spectrum and trophic structure of 64 fish species from the Corumbá Reservoir, however some of them were misidentified. For standardizing purposes, the updated names of those species are presented between parentheses: Ageneiosus valenciennesi (A. militaris), Astyanax bimaculatus (A. altiparanae), Astyanax eigenmanniorum (A. bockmanni), Cichla monoculus (C. kelberi), Gymnotus carapo (G. inaequilabiatus), Lebistes reticulatus (Poecilia reticulata), Megalonema platanus (M. platanum), Nannorhamdia schubarti (Imparfinis schubarti), Parodon tortuosus (P. nasus), Pimelodus fur (P. heraldoi), Pimelodus paranensis (P. paraenensis), Salminus maxillosus (S. brasiliensis) and Serrasalmus spilopleura (S. maculatus). Neoplecostomus paranensis is called herein as Neoplecostomus sp. according to a study that has been carried out by C.H. Zawadzki, C.S. Pavanelli and F. Langeani (pers. comm.).

The Paranaíba River basin presents some endemic species of different groups. It is attributed to a series of rapids which represent barriers to free dispersal of fishes between upper and lower parts of the basin (Pavanelli and Britski 1999). This hypothesis is corroborated by some authors (e.g. Ribeiro et al. 2004) who described Creagrutus variii from the Paranaíba River basin. Zarske and Géry (1999), and Menezes et al. (2003) described new species apparently restrict to that region, in addition to some other species mentioned by Reis et al. (2003), which only occur in the Corumbá River basin, such as Hasemania crenuchoides (not captured in this study), Planalitina myersi, and Steindacherina corumba. Leporinus tigrinus, described from the type-locality “Goyaz” by Borodin in 1929 had never been collected again after that. Since then it has been considered restricted to the Araguaia/Tocantins basin (Britski 1997; Garavello and Britski 2003). However, considering the provenience of all material of Thayer Expedition labeled as “Goyaz” as from the Araguaia/Tocantins basin is not recommended by Lima (2004), who studied some Brycon species. Only one specimen attributed to L. tigrinus was caught in this study, but considering its very peculiar color pattern, it can be certainly attributed to this species. It corroborates the Lima’s comment and contributes to indicate the type-locality of this species is Paraná River rather than Araguaia River.

Some of the non-indigenous species captured in the whole survey were originally from other Brazilian basins and others were even from other countries. Brycon amazonicus, Clarias gariepinus, Colossoma macropomum, Cyprinus carpio, Leporinus macrocephalus, Oreochromis niloticus and Tilapia rendalli which were represented only by large individuals, and occurred sporadically in the samples, may have been intentional or accidentally carried or having escaped from some small ponds or tanks situated near the sampling region. Erythrinus erythrinus and Gymnotus inaequilabiatus were also sporadic, and as they are commonly used as live bait by Brazilian anglers, it could explain their presence in the Corumbá River basin. Laetacara sp., Poecilia reticulata, and Xiphophorus helleri may also have been intentional or accidentally carried by aquarists or for controlling insects’ larvae. Cichla kelberi, native from Amazon basin, was introduced in several Brazilian rivers for recreational fishing. All the indigenous species listed in Table I with no specific name are probably new species which have been studied for specialists, including a new genus of Hypoptopomatinae subfamily.

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