Emphasis upon publication as a means of "diffusing knowledge" was expressed by the first Secretary of the Smithsonian. In his formal plan for the Institution, Joseph Henry outlined a program that included the following statement: "It is proposed to publish a series of reports, giving an account of the new discoveries in science, and of the changes made from year to year in all branches of knowledge." This theme of basic research has been adhered to through the years by thousands of titles issued in series publications under the Smithsonian imprint, commencing with *Smithsonian Contributions to Knowledge* in 1848 and continuing with the following active series:

- Smithsonian Contributions to Anthropology
- Smithsonian Contributions to Astrophysics
- Smithsonian Contributions to Botany
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In these series, the Institution publishes small papers and full-scale monographs that report the research and collections of its various museums and bureaux or of professional colleagues in the world of science and scholarship. The publications are distributed by mailing lists to libraries, universities, and similar institutions throughout the world.

Papers or monographs submitted for series publication are received by the Smithsonian Institution Press, subject to its own review for format and style, only through departments of the various Smithsonian museums or bureaux, where the manuscripts are given substantive review. Press requirements for manuscript and art preparation are outlined on the inside back cover.

Robert McC. Adams  
Secretary  
Smithsonian Institution
Catalog of Type Specimens of Recent Fishes in the National Museum of Natural History, Smithsonian Institution, 1: Characiformes (Teleostei: Ostariophysi)

Richard P. Vari and Jeffrey C. Howe
ABSTRACT

Vari, Richard P., and Jeffrey C. Howe. Catalog of Type Specimens of Recent Fishes in the National Museum of Natural History, Smithsonian Institution, 1: Characiformes (Teleostei: Ostariophysi). Smithsonian Contributions to Zoology, number 517, 52 pages, 1991.—The known type specimens of characiform fishes in the collections of the Division of Fishes of the National Museum of Natural History, Smithsonian Institution, published through 1990 are listed. These include 8214 specimens in 614 lots including 101 holotypes, 3 lectotypes, 101 syntypes, 8074 paratypes, and 35 paralectotypes of 308 nominal species and subspecies.

The listing is arranged alphabetically by original genus, species, and subspecies names. Information for each entry includes genus, species, and subspecies names (if any); author(s) and date of publication; page of original description, and accompanying figures and plates (if any); current type status; USNM catalog number; number of specimens and their range of standard lengths; locality; collector; and date collected. This is followed by “Remarks,” which includes correction, expansion, and updating of information in original description, and cross-reference to changes in type status. A familial assignment using a modification of the classification of Greenwood et al. (1966) completes each entry. A listing of the nominal taxa by family and an index of species and subspecies as originally described follows the catalog.
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Catalog of Type Specimens of Recent Fishes in the National Museum of Natural History, Smithsonian Institution, 1: Characiformes (Teleostei: Ostariophysi)

Richard P. Vari and Jeffrey C. Howe

Introduction

The collections of type specimens in the Division of Fishes, National Museum of Natural History, Smithsonian Institution, are among the largest in the world, including specimens from the freshwaters of all continents and from marine waters throughout the planet. At the end of 1990 there were approximately 15,500 putative type lots of Recent fishes in these collections. The large number of lots in the type collections, and the diversity of taxa they represent from all regions of the world, makes it unrealistic to attempt to produce a comprehensive listing of all type specimens in the collections within the foreseeable future. Rather than wait some decades until an all-inclusive listing could be prepared, it was decided that listings of type specimens for subunits of the collection should be prepared by specialists in each group. This listing is the first of these efforts prepared in response to Recommendation 72G(4) of the International Code of Zoological Nomenclature (ICZN) that “Every institution in which name-bearing types are deposited should publish lists of name-bearing types in its possession or custody.”

We have chosen to address the fishes of the order Characiformes as our first effort because these are the focus of ongoing research projects by the senior author. Members of the order are also major components of the freshwater ichthyofaunas of Africa and particularly South and Central America. These regions are the focus of increased research by systematists, ecologists, and other scientists attempting to assess and describe the biological diversity on those continents where aquatic ecosystems are progressively adversely impacted by myriad development schemes and human population pressures.

The type specimens of characiform fishes in the collections of the Division of Fishes came from two primary sources, (1) the field work and systematic studies of curators and other researchers associated with the division, and (2) exchanges from colleagues and institutions worldwide. Type specimens originally deposited in the division and reported on during this century are nearly invariably cited with USNM catalog numbers. Citations of catalog numbers were often lacking for species described in the nineteenth century. Many types were exchanged to the Smithsonian subsequent to publication under a catalog number of another institution. Foremost among these are a number of paratypes of species described by Carl H. Eigenmann and his co-workers that were exchanged to the Smithsonian from the Carnegie Museum, Indiana University, and Museum of Comparative Zoology. Syntypes of various species of African characiforms were also received in exchange from the British Museum (Natural History) (now the Natural History Museum, London) and the Muséum National d’Histoire Naturelle, Paris. This listing will serve to bring those specimens and others to the attention of interested researchers.

MISSING TYPE SPECIMENS OF SPECIES DESCRIBED BY GILL.—Gill (1858, 1871) described a series of characiforms with type localities on the island of Trinidad and in the western portions of the Amazon basin. In neither paper did Gill, however, cite the depository of the type specimens, nor did he, in most cases, state the number of specimens on which he based his descriptions. Type series of four species described in Gill’s 1858 paper (Curimatus argenteus, Erythrinus cinereus, Macronodon ferox, and Poecilurichthys Brevorii) are deposited in the

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Review Chairman: James G. Mead, Smithsonian Institution. Reviewers for this paper: Karsten E. Hartel and Horacio Higuchi, Museum of Comparative Zoology, Harvard University.
collections of the Division of Fishes (see following listing for details). The type series of the other seven characiform species described in that paper (Corynopoma Rilsei, C. Veedonii, Nematopoma Searlesii, Poecilurichthys pulcher, P. taeniurus, P. (Hemigrammus) unilineatus, and Stewardia albipinnis) were not located in the collections of the Division of Fishes, nor was any indication found in the USNM ledgers that they had been deposited at the Smithsonian.

Gill described five species of characiforms from the western portions of the Amazon basin in 1871, again without any indication of where the material was deposited. The type series of four of these (Astyanax Carolinae, Hydrolycus Copei, Pygocentrus alatus, and Raeboides Myersii) were located in the holdings of the Division of Fishes, but no trace was found of the type specimens of the fifth species (Tetragonopterus Ortonii).

ABBREVIATIONS.—Most of the specimens listed in this catalog were described under USNM catalog numbers. A number of the cited type specimens were, however, deposited in other institutions at the time the species was described. In addition, in some instances specimens originally reported on with USNM catalog numbers have been exchanged to other repositories. These various changes are noted under "Remarks" for each species with the following abbreviations for institutions and collections used in those citations.

AMNH American Museum of Natural History, New York
ANSP Academy of Natural Sciences of Philadelphia
BMNH British Museum (Natural History), London (now the Natural History Museum, London)
CAS California Academy of Sciences, San Francisco
CIMLP Colección de Ictiología, Museo de La Plata, La Plata
CM Carnegie Museum, Pittsburgh. Collections of Recent fishes subsequently transferred to FMNH.
FMNH Field Museum of Natural History, Chicago
IU Indiana University Collections, Bloomington. Often cited as I.U.M. in publications by C.H. Eigenmann and collaborators. Specimens now largely at California Academy of Sciences, but with portions in other collections.
IZUA Instituto de Zoología de la Universidad Austral de Chile, Valdivia
MCZ Museum of Comparative Zoology, Harvard University, Cambridge
MNHN Museum National d'Histoire Naturelle, Paris
MHNG Musée d'Histoire Naturelle, Geneva
MNRJ Museu Nacional, Rio de Janeiro
MZUSP Museu de Zoologia da Universidade de Sao Paulo, Sao Paulo
NMNH National Museum of Natural History, Smithsonian Institution, Washington D.C.
NMW Naturhistoriska Museum Wien, Vienna
RMNH Rijksmuseum van Natuurlijke Historie, Leiden
SU Stanford University, collections now at CAS
UKEN University of Kentucky, Lexington
UMMZ University of Michigan, Museum of Zoology, Ann Arbor
USNM collections of the former United States National Museum, now deposited in the National Museum of Natural History, Smithsonian Institution, Washington D.C.
ZMA Instituut voor Taxonomische Zoologie, Zoologisch Museum, Amsterdam

Some authors have incorrectly cited the name of the museum encompassing the Division of Fishes as "United States National Museum of Natural History" rather than its official name "National Museum of Natural History." These actions presumably are an attempt to reflect the acronym used for the collection, USNM, in the supposed title for the museum. The acronym USNM for the collections of the present National Museum of Natural History is derived from the name for the organization originally housing both those collections and others, the United States National Museum. The collections encompassed within the former United States National Museum incorporated natural history specimens, fine art objects, and historical items. The later two classes of objects were moved to other Smithsonian museums and the original museum was renamed the "National Museum of Natural History" (NMNH) to better reflect its predominant research focus. The acronym USNM is still applied to the various holdings now housed in NMNH, although no longer reflecting the official name of the organization.

ACKNOWLEDGMENTS.—This publication builds on an earlier effort by the staff of the Division of Fishes to develop a computerized listing of the putative types and associated USNM catalog numbers. The listing that resulted was completed in 1983 and was the first attempt to search the ledgers in the Division of Fishes for all listings of type specimens and to cross-check those records with the specimens curated in the type collection. Only 30 copies of the listing (without authorship) were produced and were distributed to the ichthyology departments of selected museums worldwide. Support in that project and in subsequent refinements of the type inventory was provided by Edgar "Nat" Gramblin, the late Robert Kanazawa, Victor G. Springer, Janet R. Gomon, Susan L. Jewett, Jeffrey T. Williams, Andrew Gerberich, Thomas Orrell, Jeffrey Clayton, Ann W. Vari, and many other past and present members of the Division of Fishes who have searched for and counted specimens, pored through over 200,000 ledger entries, and in many other ways provided the foundation both for this paper and future type specimen lists. M. Eric Anderson and David Catania (CAS) provided information on various characiform type series originally at Indiana University that are now deposited, at least in part, at NMNH. Karsten E. Hartel and Horácio Higuchi (MCZ) helped us to resolve numerous questions concerning type specimens received from MCZ. Darrell Siebert and Gordon J. Howes (BMNH) assisted with information on those lots received in exchange from the BMNH. Volker Mahnert (NMNH) provided information on type specimens in that collection. William L. Fink (UMMZ) and Paula A. Buckup (UMMZ) sent us information on a variety of type series that they had on loan. The examination of various type specimens in Brazilian and Venezuelan institutions was made possible by funding from the Neotropical Lowland Research Program of the International Environmental Sciences Program of the Smithsonian Institution. Stanley H. Weitzman (NMNH), Bruce B. Collette (National Marine Fisheries Service, Systematics Laboratory), Victor G. Springer (NMNH), Marilyn Weitzman (NMNH), Karsten E. Hartel (MCZ) and Horácio Higuchi (MCZ) offered suggestions for the improvement of this paper.
Format

The following template has been used to structure each entry in the “Catalog of Types.”

Genus species (subspecies) Author(s), year:page, figure(s), plate(s).

Type status
USNM catalog number (number of specimens, range of standard lengths in mm). Locality (country, department, province or state, specific locality), collector(s), date(s) collected.

Remarks: Includes comments on originally cited authorship and year of publication; reference to lectotype, or paralectotype designation; previous depository and catalog number of specimens; and correction and/or expansion of data on locality or collector.

Family
(familial assignment following classification in Greenwood et al. (1966) as modified by Roberts (1974), Howes (1976), and Vari (1979)).

This listing includes all known published characiform types deposited in the collections of the National Museum of Natural History through 1991. The order of listing is alphabetical by genus and then species and subspecies. Genus, species, and subspecies are spelled as they appear in the original description, except that diacritical marks have been deleted as recommended by the International Commission on Zoological Nomenclature. In instances where the original description included an incorrect spelling there is a cross-reference to a corrected entry elsewhere in the text. Page refers to the first page of the species description. Complete references to publications can be found in Literature Cited.

The presented “Type status” is that which is currently thought correct based on the original description and subsequent literature designations. The categories for primary and secondary types used herein are holotype, syntype(s), lectotype, paratype(s), and paralectotype(s) as defined by the International Commission on Zoological Nomenclature. In instances where the original description included an incorrect spelling there is a cross-reference to a corrected entry elsewhere in the text. Page refers to the first page of the species description. Complete references to publications can be found in Literature Cited.

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Acanthocharax microlepis Eigenmann, 1912a:405, pl. LXI: fig. 1.
Paratype
USNM 66109 (1, 54.3 mm). British Guiana [= Guyana], Tumatumari; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly, CM 2139a-t, in part; 2 specimens cited in USNM ledger, 1 specimen unaccounted for.

Paratype
USNM 216140 (1, 77.0 mm). Ecuador, Rio Punino, a tributary of Rio Payamino (Rio Napo system), above Coca; T. Roberts and Parker, 25-27 Nov 1971.
Remarks: Collected with holotype.
Paratype
USNM 216141 (1, 38.0 mm). Ecuador, Rio Payamino and tributary, 3-4 km upriver from mouth of Rio Payamino into Rio Coca; T. Roberts et al., 20 Nov 1971.

Acestrorhynchus grandoculis Menezes and Géry, 1983:582, fig. 8.
Paratype
USNM 228083 (1, 91.0 mm). Brazil, Amazonas, Marariú, in Rio Negro; M. Goulding, Oct 1979.
Paratype
USNM 228084 (1, 68.0 mm). Brazil, Amazonas, Paraná do Jacaré, Rio Negro; M. Goulding, 1979.
Paratype
USNM 228085 (1, 87.0 mm). Brazil, Amazonas, mouth of Rio Urubaxi; M. Goulding, 6 Feb 1980.
Remarks: Collected with holotype.
Paratype
USNM 228086 (1, 85.0 mm). Brazil, Amazonas, Arairá, in Rio Negro; M. Goulding, 6 Dec 1979.

Acestrorhynchus isalineae Menezes and Géry, 1983:577, figs. 5, 6.
Paratypes
USNM 228087 (2, 79.0-83.0 mm). Brazil, Amazonas, tributary of Rio dos Marmelos (Rio Madeira basin), 110 km E of Humaí, along rodovia Transamazônica; H.A. Axelrod et al., 23 Aug 1976.

Acnodon normani Gosline, 1951:43, pl. 3: fig. 5b.
Paratype
USNM 232931 (1, not measured due to poor condition). Brazil, State of Goiás [= Goiás; now in state of Tocantins], Rio Santa Teresa, a western tributary of the upper Rio Tocantins; C. Ternetz, 25 Jan 1924.
Remarks: Specimen cleared and stained, and disarticulated.

Holotype
USNM 210692 (1, 36.6 mm). Colombia, Meta, Vichada river basin, Caño Muco about 15 km W of Puerto Gaitán toward Puerto Carreno; J. Thomerson et al., 2 Apr 1974.
Paratypes
USNM 214364 (5, 34.0-38.9 mm). Colombia, Meta, Vichada river basin, Caño Muco about 15 km W of Puerto Gaitán toward Puerto Carreno; J. Thomerson et al., 2 Apr 1974.
Remarks: Collected with holotype; 6 specimens cited in original description; 2 specimens cleared and stained.

Anacyrtus guatemalensis Günther, 1864:347.
Syntype
USNM 133137 (1, 41.9 mm). Guatemala, Huamuchal, Rio Chagres; Salvin.
Remarks: Specimen received from BMNH, formerly BMNH 1864.1.26366, in part.

Anoptichthys antrobius Alvarez, 1946:278, figs. 16-23.
Paratypes
USNM 132517 (4, 34.7-43.7 mm). Mexico, San Luis Potosi, Cueva “El Pachón,” Antiguo Morelos; R. Hernández Corzo et al., 7 Dec 1945.
Remarks: Received from J. Alvarez.

Anostomus dissimilis Garman, 1890d:22.
Syntypes
USNM 120238 (3, 168.6-206.8 mm). Rio Puty; Thayer Expedition.
Remarks: Received from MCZ, formerly MCZ 19381, in part; complete collection information: Brazil, Piauí, Rio Poti (tributary of Rio Parnaiba); O. St. John, Dec 1865.

ANOSTOMIDAE
Anostomus garmani Borodin, 1931:47, pl. 4, fig. 1.
Paratype
USNM 120397 (1, 65.7 mm). Brazil, Ica.
Remarks: Received from MCZ, formerly MCZ 19366, in part; complete collection information: Brazil, Amazonas, Rio Ica (tributary of Rio Solimões) near Brazilian-Colombian border; W. James and “Talisman,” Nov 1865.

Anostomus intermedius Winterbottom, 1980:14, fig. 11.
Paratype
USNM 216593 (1, 78.7). Brazil, Amazon River system, upper Xingu River, below the cataracts near Suai-missu [= Suia-missu] or Paranajuba; H. Schultz, 15 Nov 1960.
Remarks: Collected with holotype.

Paratypes
USNM 120242 (3, 82.4-90.9 mm) Ica.
Remarks: Cited in original description as “Anostomus nitens, A. varius, var. n.” suggesting that nitens is a new variety of Anostomus varius described by Garman (see below); not clear whether intended as a species or subspecies; herein considered a species; received from MCZ, formerly MCZ 19367, in part; complete collection information: Brazil, Amazonas, Rio Ica (tributary of Rio Solimões) near Brazilian-Colombian border; W. James and “Talisman,” Nov 1865.

Anostomus rostratus Borodin, 1931:50, pl. 4, fig. 2.
Paratypes
USNM 120237 (3, 169.4-193.9 mm). Brazil, Rio Putu; Thayer Expedition.
Remarks: Received from MCZ, formerly MCZ 19380, in part; complete collection information: Brazil, Amazonas, Rio Ica (tributary of Rio Solimões) near Brazilian-Colombian border; O. St. John, Dec 1865.

Anostomus spiloclistron Winterbottom, 1974:154, figs. 1–6.
Paratype
USNM 209432 (1, 76.2 mm). Surinam; Nickerie River system, Fallawatra River at rapids, 5 km SSW of Stondansie Falls; H. Nijssen, Apr 1967.
Remarks: Collected with holotype.

Anostomus varius Garman, 1890d:19.
Syntype
USNM 120398 (1, 86.6 mm). José Fernandez.
Remarks: Received from MCZ, formerly MCZ 19378, in part; complete collection information: Brazil, Amazonas, Lago José Fernandes (presumably near Manaus); J.M.S. Coutinho, Nov 1865.

Apareiodon pongoense Allen in Eigenmann and Allen, 1942:286, pl. XIV: fig. 7
Paratype
USNM 167806 (1, 44.6 mm). Peru, Pongo de Manse-riche; Allen, Oct 1920.
Remarks: No catalog number cited in original description; collected with CAS 38567 and CAS 38568.

Aphyocharax axelrodi Travassos, 1959:5, text figs., figs. 1–3.
Paratype
USNM 177553 (1, MISSING). Trinidad, near Piarco; H.A. Axelrod, May 1958.
Remarks: Received from H.A. Axelrod. Although specimen is not specifically cited as a paratype, Travassos stated under paratypes that “data also from United States National Museum was [sent to me] by Dr. Leonard P. Schultz to this paper.” That comment may refer to this specimen.

Aphyocharax erythrurus Eigenmann, 1912a:313, pl. XLIV: fig. 4.
Paratypes
USNM 66095 (2, 26.7–29.3 mm). British Guiana [= Guyana], Rockstone sand bank; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1880a–e, in part.

Paratypes
USNM 66272 (2, 45.0–52.9 mm). British Guiana [= Guyana]; Kangaruma, lower Potaro River.
Remarks: Received from CM, presumably formerly CM 1031a–e, in part; collected by S.E. Schideler, 1908.

Astyanax argentatus Baird and Girard, 1855:27.
Syntypes
USNM 869 (28, 34.4–59.8 mm). Mexico, upper tributaries of Rio Nueces; J.H. Clark.
Remarks: 24 specimens previously cited in USNM ledger.

Aphyocharax erythrurus Eigenmann, 1912a:313, pl. XLIV: fig. 4.
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USNM 66095 (2, 26.7-29.3 mm). British Guiana [= Guyana], Rockstone sand bank; C.H. Eigenmann, 1908.
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Paratypes
USNM 66272 (2, 45.0–52.9 mm). British Guiana [= Guyana]; Kangaruma, Lower Potato River.
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Astyanax argentatus Baird and Girard, 1855:27.
Syntypes
USNM 869 (28, 34.4–59.8 mm). Mexico, upper tributaries of Rio Nueces; J.H. Clark.
Remarks: 24 specimens previously cited in USNM ledger.
Astyanax atratoensis Eigenmann in Eigenmann and Ogle, 1907:28, fig. 5.
Holotype
USNM 1659 (1, MISSING). Colombia, Truando; Michler and Schott, 1857-1858.
Remarks: USNM ledgers for other portions of collection indicate that collector is Lt. N. Michler; A. Schott cited as “preparator.” According to introductory statements in Eigenmann and Ogle the material was collected “near the Rio Atrato.” “Type” (= holotype) and 4 “Cotypes” (= paratypes) were intermingled in single lot (USNM 1659), which contained only 4 specimens when checked in 1982. Specimens remaining in lot were approximately 65, 66, 72, and 95 mm SL and evidently represent paratypes cited by Eigenmann as 68, 68, 75, and 100 mm to “base of caudal,” a measurement that evidently included the 2 or 3 scales extending beyond hypural joint onto middle caudal fin-rays. The specimens remaining in the lot are estimated to have been 80, 83, 89, and +115 mm total length, not approximating the “105 mm. long over all” cited by Eigenmann for holotype. The holotype is apparently missing and the four specimens remaining in the lot are considered the paratypes; those were recataloged as USNM 306566.

Paratypes
USNM 306566 (4, 64.4-92.2 mm). Colombia, Truando; Michler and Schott, 1857-1858.
Remarks: Collected with holotype; see discussion under holotype with respect to these specimens; specimens originally cited as 68 to 100 mm to base of caudal.

Astyanax Carolinae Gill, 1871:92.
Holotype
USNM 8225 (1, 83.3 mm). Peru and Ecuador [= Ecuador], Maranon or upper Amazon and Napo Rivers; J. Orton.

Astyanax eigenmanni Evermann and Kendall, 1906:83, fig. 1.
Holotype
USNM 55570 (1, 60.7 mm). Argentina, Province of Cordoba, Rio Primero; J.W. Ticomb, 1903-1904.

Astyanax emperador Eigenmann and Ogle, 1907:26.
Holotype
USNM 55651 (1, 48.5 mm). Panama, Empire Station; Bransford.
Remarks: “cotypes” of the species originally cited as USNM 55651a, now cataloged as USNM 306565; specimens originally cited as “52 mm to base of caudal.”
Paratypes
USNM 306565 (2, 33.5-34.3 mm). Panama, Empire Station; Bransford.
Remarks: Originally cited as “cotypes” USNM 55651a; specimens originally cited as “37–35 mm long to base of caudal.”

Astyanax essequebensis Eigenmann 1909:17.

Astyanax fasciatus parahybae Eigenmann, 1908:97.
Syntypes
USNM 120245 (3, 86.5-97.0 mm). Brazil, Rio Parahyba; Thayer Expedition, 1872.
Remarks: Received from MCZ, formerly MCZ 20685, in part; that lot incorrectly cited as 20635 by Eigenmann (1921:304); complete collection information: Brazil, Rio de Janeiro, Rio Paraiba do Sul between Barra do Piraí and Três Rios (Dom Pedro II Railroad); L. Agassiz and D. Bourget, Apr 1865.

Astyanax guianensis Eigenmann, 1909:16.
Paratypes
USNM 66105 (5, 29.7-33.7 mm). British Guiana [= Guyana], Rockstone; C.H. Eigenmann, 1908.
Remarks: Received from CM; presumably formerly CM 1014a-j, in part.
Paratype
USNM 66106 (1, 35.2 mm). British Guiana [= Guyana], Tumatumari; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1014a-j, in part.
Paratypes
USNM 120394 (2, 29.3-34.5 mm). British Guiana [= Guyana], Rockstone; C.H. Eigenmann, 1908.
Remarks: Received from MCZ, formerly MCZ 29960, in part; originally CM 1014a-z or IU 11718, in part.

Astyanax hastatus Myers, 1928:87.
Holotype
USNM 92952 (1, 36.9 mm). Brazil, Rio de Janeiro; R. Brocca.
Remarks: Received from G.S. Myers. Myers noted in the description that “All of the specimens were presented to me by Mr. Richard Dorn who received them as living aquarium fishes directly from Mr. R. Brocca, of Rio de Janeiro. The fishes were said to have been collected in the vicinity of the city, but there is a possibility of their having come from any of a number of places in southeastern Brazil.”
Paratypes
USNM 94312 (29, 21.5-40.6 mm). Brazil, Rio de
Astyanax (Astyanax) kennedyi Géry, 1964d:21, fig. 3.

Holotype
USNM 200425 (1, 36.7 mm) Peru, Upper Amazon region, near Iquitos; J. Roberts, end of 1963.

Remarks: Received from J. Géry.

Astyanax kompi Hildebrand, 1938:260, fig. 3.

Holotype
USNM 106510 (1, 51.3 mm). Panama, Pacific Slope, Laguna Gulnar or Grande, Volcán.

Remarks: Hildebrand noted that specimens from Laguna Gulnar and Laguna Grande were not kept separate.

Paratypes
USNM 109262 (40, 13.4-58.6 mm). Panama, Pacific Slope, Laguna Gulnar or Grande, Volcán.

Remarks: 39 specimens originally cited in USNM ledger; collected with holotype.

Astyanax microlepis Eigenmann, 1913:24.

Paratypes
USNM 79167 (4, 65.1-85.3 mm). Colombia, Cartago.

Remarks: Received from CM, presumably formerly CM 5003a-z, in part; collector C.H. Eigenmann.

Astyanax multidens Eigenmann, 1908:98.

Syntypes
USNM 120244 (6, 25.2-27.6 mm). Obidos.

Remarks: Received from MCZ, formerly MCZ 89559; complete collection information: Brazil, Pará, Rio Amazonas at Óbidos; W. James and W. Hunnewell, Dec 1865.


Paratypes
USNM 66108 (5, 30.8-38.9 mm). British Guiana (=Guyana), Savannah Landing, Upper Potaro (River).

Remarks: Received from CM, presumably formerly CM 1024a-z, in part; collector C.H. Eigenmann, 1908.

Astyanax orthodus Eigenmann in Eigenmann and Ogle, 1907:27.

Holotype
USNM 55655 (1, 90.2 mm). Colombia, Truando; Michler and Schott.

Remarks: USNM ledgers for other specimens collected at same time indicate that collector is Lt. N. Michler; A. Schott cited as "preparator"; specimen originally cited as "92 mm long to origin of caudal."

Astyanax ruberrimus Eigenmann, 1913:25.

Paratypes
USNM 76940 (24, missing). Colombia, Istmina.

Remarks: Received from IU, presumably formerly IU 12751, in part; collector C.H. Eigenmann.

Astyanax rutilus nicaraguensis Eigenmann and Ogle, 1907:23.

Holotype
USNM 55653 (1, 72.0 mm). Nicaragua; J.T. Bransford.

Paratypes
USNM 55657 (32, 32.8-71.8 mm). Original description stated "Several specimens from same source"; but no USNM catalog number was cited. This series of specimens was evidently collected with the holotype and was cataloged at same time as that specimen.

Astyanax scologaster Weitzman and Vari, 1986:710, figs. 1, 3.

Paratypes
USNM 272609 (4, 35.3-36.0 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Chola, where crossed by road from San Carlos de Río Negro to Solano (01°58'N, 67°00'W), 5 Dec 1984.

Remarks: Collectors R.P. Vari et al.

Paratypes
USNM 272610 (5, 32.2-36.0 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Río Negro margin upstream of town landing, 3 Dec 1984.

Remarks: Collectors R.P. Vari et al.

Paratypes
USNM 272611 (5, 29.6-33.0 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Río Negro, one-half hour upstream of San Carlos de Río Negro, 4 Dec 1984.

Remarks: Collectors R.P. Vari et al.

Paratypes
USNM 276503 (5, 39.6-42.0 mm). Venezuela, Territorio Federal Amazonas; Departamento Río Negro; at San Carlos de Río Negro; 2 Feb 1984.

Remarks: Collectors C.J. Ferraris, Jr.

Paratypes
USNM 276504 (5, 35.7-39.8 mm). Brazil, Amazonas,
Rio Negro, Ilha de Tamaquaré just downstream from Tapurucuara, beach (~0°25'S, 64°55'W), 10 Oct 1979.
Remarks: Collector M. Goulding.

Paratypes
USNM 276505 (6, 37.0-41.4 mm). Brazil, Amazonas, Rio Negro, Massarabi, sand beach just above Barcelos (~0°57'S, 62°56'W); M. Goulding, 18 Oct 1979.

CHARACIDAE

Astyanax superbus Myers, 1942:92, fig. 2.
Paratype
USNM 130640 (1, 71.1 mm). Venezuela, small brook tributary to the Río Tamanaco (a tributary of the Río Paye; Río Portuguesa drainage), at Camuruco, 20 km NE of San Carlos; F.F. Bond, 9 Mar 1938.
Remarks: Collected with holotype; received from SU, formerly SU 36490, in part.

Astyanax venezuelae Schultz, 1944:359, fig. 54.
Holotype
USNM 121449 (1, 86.5 mm). Venezuela, Río Torbes, 1 km above Táraba, Río Orinoco system; L.P. Schultz, 31 Mar 1942.
Paratypes
USNM 121450 (3, 75.1-87.8 mm). Venezuela, Río Torbes, 1 km above Táraba, Río Orinoco system; L.P. Schultz, 31 Mar 1942.
Remarks: 5 specimens cited in original description; 1 specimen exchanged to UMMZ Jun 1948, 1 specimen exchanged to MCZ Jul 1951.

Aulixidens eugeniae Böhlke, 1952:775.
Paratype
USNM 157368 (1, 36.9 mm). Venezuela, Río Orinoco, Playa Matepalma, the playa below Yapacana (either region of Lagoa Mata de Palma, ~3°34'N, 66°53'W, or Ilha Mata de Palma, ~3°44'N, 66°57'W); C. Ternetz, 2 Apr 1925.
Remarks: Received from SU, formerly SU 16942, in part.

Axelrodia riesei Géry, 1966b:112, figs. 1-5.
Holotype
USNM 207923 (1, 14.3 mm). Colombia, upper Río Meta basin, E of Villavicencio; H.A. Axelrod and W. Riese, Nov 1964.
Paratypes
USNM 207924 (3, 12.3-13.2 mm). Colombia, upper Río Meta basin, E of Villavicencio; H.A. Axelrod and W. Riese, Nov 1964.
Remarks: Collected with holotype.

Bivibranchia notata Vari and Goulding, 1985:1055, figs. 1, 2.
Paratype
USNM 268049 (1, 68.3 mm). Brazil, Pará, Rio Tapajós, beach at Alter do Chão (~2°31'S, 54°57'W); M. Goulding, 25 Nov 1983.

Paratypes
USNM 268562 (3, 28.4-35.1 mm). Brazil, Pará, pool in Rio Tapajós at Barreirinha, near São Luís (~4°26'S, 56°14'W); Expedicion Permanente de Amazonia, 25 Nov 1970.

Bivibranchia protractila Eigenmann, 1912a:259, pl. XXXIII: figs. 1-5.
Paratype
USNM 66126 (1, 73.7 mm). British Guiana [= Guyana], Rockstone, sand-bank.
Remarks: Received from CM, presumably formerly CM 1875a-c, in part; collector C.H. Eigenmann.

Brachychalcinus nummus Böhlke, 1958:74, pl. 4: fig. 5.
Holotype
USNM 164019 (1, 84.0 mm). Ecuador, Napo-Pastaza, Chicherota, lower Río Bobonaza (2°23'S, 76°45'W); R. Olalla, Jan 1954.
Paratypes
USNM 164044 (2, 30.7-55.9 mm). Ecuador, Napo-Pastaza, upper portion of Río Villano, southern tributary of upper Río Curaray, Río Napo system, at Villano (1°30'S, 77°28'W); M. Olalla, May 1948.
Paratypes
USNM 164058 (2, 47.5-55.9 mm). Ecuador, Napo-Pastaza, Río Pucuno, tributary of Río Suno, northern tributary of upper Río Napo; J. Olalla, Nov 1951.
Paratype
USNM 164059 (1, 55.9 mm) Ecuador, Napo-Pastaza, Río Tutapishco, small tributary of Río Suno, a northern tributary of upper Río Napo, near Loreto (0°38'S, 77°19'W); M. Olalla, Apr 1952.
CHARACIDAE

Bramocharax Bransfordii Gill in Gill and Bransford, 1877:190.

Syntypes
USNM 16885 (3, 78.0-127.5 mm). Nicaragua, Lake Nicaragua; J.F. Bransford, spring 1876.

CHARACIDAE


Holotype
USNM 198132 (1, 24.3 mm). Brazil (Amazonas), Rio Negro basin, Praio [= Praia] Bulufu, Rio Itu, ~80 km upstream from meeting [of Rio Itu] with Rio Negro (0°30'S, 63°30'W); M.R. Brittan and H.W. Schwartz, 26 Apr 1964.

Remarks: 28.1 mm SL recorded in original description.

Paratypes

CHARACIDAE

Brittanichthys myersi Géry, 1965:62, figs. 5-8.

Holotype
USNM 198131 (1, 30.7 mm). Brazil (Amazonas), Rio Negro, unnamed inlet on shore, ~13 km W of junction with the Amazon, 10 km W of Manaus (3°10'S, 59°55'W); W.R. Brittan, 7 Apr 1964.

Remarks: Received from CAS; 5 specimens originally cited in USNM ledgers.

CHARACIDAE

Brycon argenteus Meek and Hildebrand, 1913:84.

Paratypes
USNM 78471 (13, 25.6-175.2 mm). Panama, Rio Aruza, Aruza.

Remarks: Probable paratypes; Meek and Hildebrand specifically cited only holotype in original description, but species description is based on more than one specimen; these specimens collected at type locality; 10 specimens originally cited in USNM ledgers.

CHARACIDAE

Brycon behrae Hildebrand, 1913:278, fig. 5.

Paratypes
USNM 109205 (3, 26.7-210.5 mm). Panama, western Panama, Pacific slope, Río Chiriquí basin, general vicinity of Caldera; E.H. Behre, 1923.

Remarks: Received from CAS; 2 specimens originally cited in USNM ledgers.

Paratype
USNM 109206 (1, 76.4 mm). Panama, western Panama, Pacific slope, Río Chiriquí basin, general vicinity of Caldera; E.H. Behre, 1923.

Remarks: Received from CAS.

CHARACIDAE


Paratypes
USNM 79169 (3, 102.2-134.2 mm). Colombia, Caldas.

Remarks: Received from CM; presumably formerly CM 5153a-f, in part; collector C.H. Eigenmann.

CHARACIDAE

Brycon meeki Eigenmann and Hildebrand in Eigenmann, 1917:688.

Paralectotypes
USNM 280489 (12, 37.6-116.9 mm). Colombia, Río Telembi, 8 mi above Barbacoas; A. Henn, 16 Jan 1913.

Remarks: Lectotype designated by Eigenmann, 1922:322; specimens received from CAS; formerly IU 12984, in part.

CHARACIDAE

Brycon obscurus Hildebrand, 1938:283, fig. 6.

Holotype
USNM 106512 (1, 73.8 mm). Panama, Pacific slope, creek in El Valle.

Remarks: Note in jar indicates specimen was collected by S.F. Hildebrand, 12 Mar 1937.

Paratypes
USNM 109207 (3, 29.4-33.1 mm). Panama, Pacific slope, creek in El Valle.

CHARACIDAE

Brycon petrosus Meek and Hildebrand, 1913:84.

Paratype
USNM 78495 (1, 161.9 mm). Panama, upper Chagres.

Remarks: Probable paratype; Meek and Hildebrand specifically cited only holotype in original description, but description is based on more than one specimen; specimen collected at type locality; data in jar indicate specimen was collected 24 Feb 1911.

CHARACIDAE

Bryocharax algidae Eigenmann, 1927a:394, pl. 99: fig. 1.

Paratypes
USNM 120246 (6, 22.1-39.8 mm). Peru, Río Uruymbamba at Santa Ana; E. Heller.

Remarks: Received from MCZ, formerly MCZ 30983, in part; originally IU 13755, in part; 5 specimens originally cited in USNM ledgers.

CHARACIDAE

Bryocharax beta motatanensis Schultz, 1944:341, fig. 50.

Holotype
USNM 121477 (1, 39.4 mm). Venezuela, Maracaibo basin, Río San Juan at bridge S of Mene Grande; L.P. Schultz, 20 Mar 1942.

Paratypes
USNM 121478 (74, 22.3-47.7 mm). Venezuela, Maracaibo basin, Río San Juan at bridge S of Mene Grande;
L.P. Schultz, 20 Mar 1942.
Remarks: 77 specimens cited in original description; 2 specimens exchanged to J. Géry Apr 60, subsequently transferred to MHNG; 1 specimen unaccounted for; collected with holotype.

Paratypes
USNM 121479 (10, 22.3–36.1 mm). Venezuela, Maracaibo basin, Río Motatán, 4 km above Motatán; L.P. Schultz, 25 Mar 1942.

Paratype
USNM 121480 (1, 34.2 mm). Venezuela, Maracaibo basin, Río Jimelles, 12 km E of Motatán, Río Motatán system; L.P. Schultz, 24 Mar 1942.

Paratypes
Remarks: 45 specimens cited in original description; 5 specimens exchanged to UMMZ Jun 1948; 5 specimens exchanged to MCZ Jul 1951.

**CHARACIDAE**

*Bryconamericus breviceps* Eigenmann, 1908:105.
Paratypes
USNM 120274 (4, 55.6–68.9 mm). Goyaz.
Remarks: Received from MCZ, formerly MCZ 20692, in part; complete collection information: Brazil, Goiás; “Senhor Honorio,” 1865.

*Bryconamericus cascajalensis* Meek and Hildebrand, 1916:284, pi. XIX.
Paratypes
USNM 78448 (17, 44.1–70.9 mm). Panama, Río Cascajal, Porto Bello.
Remarks: 19 specimens originally cited in USNM ledger; 2 specimens unaccounted for.

*Bryconamericus chocoensis* Eigenmann, 1913:14.
Paratypes
USNM 76943 (19, 35.0–53.1 mm). Colombia, Istmina.
Remarks: According to Eigenmann (1912b:8), he collected at Istmina 18–20 Mar 1912; specimens received from IU, presumably formerly IU 12939, in part; 5 specimens removed to USNM 236096 and 249871.

Paratypes
USNM 79173 (4, 42.8–50.3 mm). Colombia, Istmina.
Remarks: According to Eigenmann (1912b:8), he collected at Istmina 18–20 Mar 1912; specimens received from CM, presumably formerly CM 5037a–z, in part.

Paratypes
USNM 236096 (3, MISSING). Colombia, Istmina.
Remarks: Specimens cleared and stained, formerly USNM 76943, in part; see under that lot for additional collection information.

Paratypes
USNM 249871 (2, 45.5–48.5 mm). Colombia, Istmina.
Remarks: Specimens cleaned and stained, formerly USNM 76943, in part; see under that lot for additional collection information.

**CHARACIDAE**

*Bryconamericus conventus* Eigenmann, 1913:13.
Paratypes
USNM 79174 (4, 34.2–38.4 mm). Colombia, Soplaquito.
Remarks: Received from CM, presumably formerly CM 5061a–n, in part; collector C.H. Eigenmann.

*Bryconamericus dentatus* Eigenmann, 1913:19.
Paratypes
USNM 79175 (3, 64.2–78.9 mm). Colombia, Paila.
Remarks: Received from CM; presumably formerly CM 5053a–e, in part; collector C.H. Eigenmann; 4 specimens originally cited in USNM ledgers, 1 specimen unaccounted for.

*Bryconamericus deuterodonoides eurydous* Schultz, 1944:344, fig. 51.
Holotype
USNM 121437 (1, 33.2 mm). Venezuela, Estado de Aragua, Río Guárico and tributaries between San Sebastián and San Casimiro; L.P. Schultz et al., 12 May 1942.

Paratypes
USNM 121438 (388, 17.6–36.4 mm). Venezuela, Estado de Aragua, Río Guárico and tributaries between San Sebastián and San Casimiro; L.P. Schultz et al., 12 May 1942.
Remarks: 408 specimens cited in original description; 5 specimens exchanged to UMMZ Jun 1948; 5 specimens exchanged to MCZ Jul 1951; 10 specimens exchanged to ZMA Mar 1958.

*Bryconamericus heteresthes* Eigenmann, 1908:105.
Syntypes
USNM 120247 (6, 31.1–38.3 mm). Tapajos.
Remarks: Received from MCZ, formerly MCZ 20862a, in part; complete collection information: Brazil, Pará; Rio Tapajós; H. Dexter, W. James, and “Talisman,” 26 Aug 1865.

*Bryconamericus loisae* Géry, 1964a:46, fig. 12.
Holotype
USNM 198645 (1, 69.5 mm). Colombia, upper Río Meta drainage, about 200 miles [~320 km] E of Bogota; R. Socolof et al., May 1963.
Remarks: 74.0 mm SL recorded in the original description; exact locality Colombia, Río Manacacias into upper Río Meta, at Restrepo.
Bryconamericus magdalenensis Eigenmann, 1913:14.
Paratypes
USNM 79176 (4, 37.8–42.7 mm). Colombia, Girardot.
Remarks: Received from CM; presumably formerly CM 5064, in part; collector C.H. Eigenmann.

Bryconamericus pectinatus Vari and Siebert, 1990:517, figs. 1–5.
Paratypes
USNM 303441 (5, 19.8–34.8 mm). Peru, Departamento Madre de Dios, Provincia Manú, Parque Nacional de Manú, second large quebrada along Trail 1 leading to the E from Pakitza, tributary of Río Manú (~11°50'S, 71°21'W); H. Ortega et al., 13 Sep 1988.

Paratypes
USNM 303442 (8, 17.0–23.6 mm). Peru, Departamento Madre de Dios, Provincia Manú, Parque Nacional de Manú, second large quebrada along Trail 1 leading to the E from Pakitza, tributary of Río Manú (~11°50'S, 71°21'W); H. Ortega et al., 17 Sep 1988.
Remarks: Collected with holotype.

Bryconamericus scopiferus Eigenmann, 1913:16.
Paratypes
USNM 79177 (4, 49.5–59.5 mm). Colombia, Istmina.
Remarks: Received from CM; presumably formerly CM 5027a–z, in part; collector C.H. Eigenmann.
Paratypes
USNM 76945 (24, 21.8–51.4 mm). Colombia, Istmina.
Remarks: Received from IU, presumably formerly IU 12793, in part; 29 specimens cited in USNM ledger, 5 specimens unaccounted for.

Bryconamericus seteki Hildebrand, 1938:265, fig. 4.
Holotype
USNM 106511 (1, 70.0 mm). Panama, Pacific Slope, creek in El Valle.
Remarks: USNM ledgers list S.F. Hildebrand as collector.
Paratypes
USNM 109263 (52, 14.2–70.0 mm). Panama, Pacific Slope, creek in El Valle.
Remarks: Collected with holotype.
Paratypes
USNM 109264 (32, 31.8–64.5 mm). Panama, Pacific Slope, creek in El Valle.
Remarks: USNM ledgers list E. Robson as collector.

Bryconexodon jurueanae Géry, 1980:2, figs. 1, 2, 5–11.
Paratypes
USNM 194289 (6, 51.0–75.0 mm). Brazil, Mato Grosso, upper Rio Jurueana, tributary of Rio Tapajós, near the road between Cuiaba and Porto Velho; H. Schultz, 16 Jul 1962.
Remarks: Received from CM, presumably formerly CM 1149a–b, in part; collector C.H. Eigenmann.
Parotypes
USNM 194333 (4, 44.4–102.9 mm) Brazil, Mato Grosso, upper Rio Jurueana, tributary of Rio Tapajós, near the road between Cuiaba and Porto Velho; H. Schultz, 8 Jul 1962.
Remarks: Collected with holotype; reported by Géry as 45 mm SL.

Paratypes
USNM 194336 (1, 103.4 mm). Brazil, Mato Grosso, upper Rio Jurueana, tributary of Rio Tapajós; H. Schultz, 19 Jul 1962.

Paratypes
USNM 194350 (1, 122.5 mm). Brazil, Mato Grosso, upper Rio Jurueana, tributary of Rio Tapajós; H. Schultz, 27 Aug 1962.

Paratypes
USNM 194366 (1, 62.6 mm). Brazil, Mato Grosso, upper Rio Jurueana, tributary of Rio Tapajós; H. Schultz, Jun to Oct 1962.

Chalcinus angulatus fuscus Garman, 1890a:4.
Syntypes
USNM 120253 (3, 98.6–110.3 mm). Villa Bella.
Remarks: Received from MCZ, formerly MCZ 21190, in part; complete collection information: Brazil, Amazonas, Rio Amazonas at Parintins and environs; L. Agassiz, 27 Aug 1865.

Characidium blennioides Eigenmann, 1909:37.
Paratype
USNM 66129 (1, 27.3). British Guiana [= Guyana], Crab Falls.
Remarks: Received from CM, presumably formerly CM 1149a–b, in part; collector C.H. Eigenmann, 1908.

Characidium bolivianum Pearson, 1924:31, pl. IX: fig. 3.
Syntype
USNM 117523 (1, 42.8 mm). Bolivia, upper Beni, Popoi River; N. Pearson, Sep 1921.
Remarks: Received from UMMZ, formerly IU 17301 and UMMZ 66488, in part. Pearson termed the lot this specimen came from as “cotypes,” a term often applied to paratypes by Eigenmann and his associates. No “type” was designated by Pearson making his “cotypes” syntypes in this instance.

Characidium caucanum Eigenmann, 1912b:25.
Paratypes
USNM 79183 (2, 35.3–36.2). Colombia, Cali.
Remarks: Received from CM; presumably formerly CM...
**Characidium chupa chupa** Schultz, 1944:283, fig. 33.

**Holotype**
USNM 121417 (1, 64.3 mm). Venezuela, Estado de Mérida, Río Chama at Estanques; L.P. Schultz, 3 Apr 1942.

**Paratype**
USNM 121418 (1, 72.9 mm). Venezuela, Estado de Mérida, Río Chama, 10 km below Lagunillas; L.P. Schultz, 30 Mar 1942.

**Paratypes**
USNM 121419 (44, 34.0-79.0 mm). Venezuela, Estado de Mérida, Río Chama at Estanques; L.P. Schultz, 3 Apr 1942.

**Remarks:** Collected with holotype; 80 specimens cited in original description; 5 specimens exchanged to UMMZ 1 Jun 1948; 4 specimens exchanged to RMNH Mar 1951; 3 specimens exchanged to MCZ Jul 1951; 4 specimens exchanged to ZMA Mar 1958; 2 specimens exchanged to J. Géry Jan 1960, subsequently transferred to MHNG; 6 specimens exchanged to MNRJ; 12 specimens unaccounted for; 2 specimens cleared and stained.

**Paratypes**
USNM 121420 (9, 31.8-62.1 mm). Venezuela, Estado de Mérida, Río Chama at La Gonzáles; L.P. Schultz, 29 Mar 1942.

**Characidium chupa torbesensis** Schultz, 1944:286, fig. 34.

**Holotype**
USNM 121415 (1, 59.6 mm). Venezuela, Río Torbes, 1 km above Táraba, Orinoco drainage; L.P. Schultz, 31 Mar 1942.

**Paratypes**
USNM 121416 (5, 49.6-73.2 mm). Venezuela, Río Torbes, 1 km above Táraba, Orinoco drainage; L.P. Schultz, 31 Mar 1942.

**Remarks:** 7 specimens cited in original description; 1 specimen exchanged to MCZ Jul 1951; 1 specimen exchanged to UMMZ 1 Jun 1948.

**Characidium japuhybensis** Travassos, 1949:229, figs. 1-4.

**Paratypes**
USNM 149945 (3, 38.4-45.6 mm). Brazil, Rio de Janeiro, Municipio de Angra dos Reis, Japuhyb [= Japuiba]; H. Travassos, 1 Jan 1945.

**Remarks:** Received from MNRJ; evidently collected with holotype.

**Characidium marshi** Breder, 1925:5, fig. 5.

**Paratypes**
USNM 120234 (2, 19.6-22.3 mm). Panama, Darien, Río Chucunaque; Marsh-Darien Expedition, 1924.

**Characidium vintoni** Eigenmann, 1909:36.

**Paratypes**
USNM 288086 (1, 62.9 mm). British Guiana [= Guyana], Shrimp Creek.

**Remarks:** Received from CAS, formerly IU 11674, in part; collector C.H. Eigenmann, 1908; 2 specimens originally in lot, 1 specimen unaccounted for.

**Characidium vadorita** Schultz, 1944:280, fig. 32.

**Holotype**
USNM 121407 (1, 39.2 mm). Venezuela, Maracaibo Basin, 4 km above Motatán in the Río Motatán; L.P. Schultz, 25 Mar 1942.

**Characidium pterostictum** Gomes, 1947:18, pl. 1: fig. 3.

**Paratypes**
USNM 143848 (1, 29.8 mm). Brazil, Rio Grande do Sul, Conceição do Arroio County [Municipio de Conceição do Arroio; now Osório], swift current of Rio Maquiné, a tributary to Lagôa dos Quadros; H. Kleerekoper, 1941.

**Remarks:** Received from UMMZ, formerly UMMZ 143290, in part; collected with holotype.

**Characidium timbuiensis** Travassos, 1946:60, figs. 1-23.

**Paratypes**
USNM 133901 (8, 25.0-47.5 mm). Brazil, Espírito Santo, Municiípio de Santa Teresa, Córrego do Cemitério, tributary of Río Timbui, Santa Tereza; Ruschi et al., 24 Nov 1942.

**Remarks:** Received from MNRJ, formerly MNRJ 4555, in part.

**Paratype**
USNM 133902 (1, 45.3 mm). Brazil, Espírito Santo, Municiípio de Santa Teresa, Córrego Valsungana, tributary of Río Timbui, near Santa Teresa; Ruschi et al., 24 Nov 1942.

**Remarks:** Received from MNRJ, formerly MNRJ 4290.

**Paratype**
USNM 133903 (1, 54.8 mm). Brazil, Espírito Santo, Municiípio de Santa Teresa, Córrego Valsungana, tributary of Río Timbui, near Santa Teresa; Ruschi et al., 24 Nov 1942.

**Remarks:** Received from MNRJ, formerly MNRJ 4327.
Paratypes
USNM 121408 (32, 15.5–37.4 mm). Venezuela, Maracaibo Basin, 4 km above Motatán in the Río Motatán; L.P. Schultz, 25 Mar 1942.
Remarks: Collected with holotype; 40 specimens originally in lot, 6 specimens exchanged to ZMA Mar 1952, 2 specimens exchanged to MNRJ Nov 1946.

Paratypes
USNM 121409 (15, 22.7–32.0 mm). Venezuela, Maracaibo Basin, Río Palmar, near Totuma, about 100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.

Paratypes
USNM 121410 (27, 19.8–33.1 mm). Venezuela, Maracaibo basin, Río San Pedro, at bridge S of Mene Grande, Motatán system; L.P. Schultz, 20 Mar 1942.

Paratypes
USNM 121411 (3, 23.7–30.9 mm). Venezuela, Maracaibo basin, Río Machango, 20 km above bridge S of Lagunillas; L.P. Schultz, 21 Mar 1942.

Paratypes
USNM 121412 (5, 25.0–34.8 mm). Venezuela, Río Motatán, 8 km below Motatán; L.P. Schultz, 24 Mar 1942.
Remarks: 10 specimens cited in original description; 5 specimens exchanged to UMMZ 1 Jun 1948.

Paratypes
USNM 121413 (26, 17.9–25.5 mm). Venezuela, Maracaibo basin, Estado de Zulia, Río San Juan, 12 km S of Rosario; L.P. Schultz, 26 Feb 1942.

Paratypes
USNM 121414 (95, mm). Venezuela, Estado de Apure, ponds along road to Modulos de Mantecal, -4 km S of main road to San Fernando de Apure; technicians of San Fernando Fisheries Station, 14 Jan 1983.

Paratype
USNM 121409 (1, 68.0 mm). Venezuela, Estado de Monagas, inlet on N shore of Isla Varadero, downstream from Barrancas, 142 nautical miles [356 km] from Sea Buoy; J. Baskin et al., 11 Nov 1979.

Paratypes
USNM 260317 (17, 56.0–118.0 mm). Venezuela, Estado de Apure, ponds along road to Modulos de Mantecal, -4 km S of main road to San Fernando de Apure; technicians of San Fernando Fisheries Station, 14 Jan 1983.

Paratype
USNM 260302 (1, 79.0 mm). Venezuela, Estado de Guarico, Río Caracol; R.P. Vari et al., 19 Jan 1983.
Remarks: Additional locality data: Río Caracol, where crossed by bridge on Fundo Masaguara (8°34'N, 67°30').
Paratypes
USNM 270254 (3, 70.0–74.0 mm). Venezuela, isolated lagoon on Isla Tapapata, at Los Castillos, between Puerto Ordan and Barrancas, 163 nautical miles [181 km] from Sea Buoy (8°31'36"N, 62°26'42"W); E. Marsh et al., 10 Oct 1979.
Remarks: Locality is in Estado de Monagas; Tapapata cited as Tajopata in original description.

Paratype
USNM 260305 (1, 76.0 mm). Venezuela, Estado de Guarico, Caño Falcon, ~5 km N of RPV 83-4, Rio Portuguesa basin (8°14'N, 67°35'W); A. Machado and L. Aguana, 20 Jan 1983.

CHARACIDAE
Cheirodon australis Eigenmann, 1927b:44, pl. IX: fig. 3.
Paratypes
USNM 84317 (12, 28.2–50.6 mm). Chile, Puerto Varas, mostly from a creek flowing through the town into Lake Llanquihue; Irwin Expedition, 1919.
Remarks: Received from IU, presumably formerly IU 15509, in part; originally 14 specimens in lot, 2 specimens recataloged as USNM 221998.

Paratypes
USNM 221998 (2, 32.1–46.4 mm). Chile, Puerto Varas, mostly from a creek flowing through the town into Lake Llanquihue; Irwin Expedition, 1919.
Remarks: Formerly USNM 84317, in part; specimens cleared and stained.

CHARACIDAE
Cheirodon axelrodi Schultz, 1956:42, text fig.
Holotype
USNM 164483 (1, 22.4 mm). Brazil, near Porto Velho.

Paratype
USNM 164484 (1, 20.0 mm). Brazil, near Porto Velho.
Remarks: Length cited as 20.5 mm in original description; see under holotype concerning type locality.

CHARACIDAE
Cheirodon dialepturus Fink and Weitzman, 1974:5, figs. 1–5.
Holotype
USNM 208524 (1, 28.0 mm). Panama, Veraguas Province, Rio San Pedro basin, creek at bridge 12 miles [19.2 km] W of Santiago on road to Sona; H. Loftin et al., 28 Jan 1962.

Paratypes
Remarks: 144 specimens cited in original description; collected with holotype; 3 specimens cleared and stained; 12 specimens unaccounted for.

CHARACIDAE
Cheirodon galusdae Eigenmann, 1927b:44, pl. IX: fig. 2.
Paratypes
USNM 84319 (9, 31.9–52.3 mm). Chile, Río Locomilla, San Javier; Irwin Expedition, 23 Mar 1919.
Remarks: Received from IU, presumably formerly IU 15506, in part; originally 10 specimens in lot; 1 specimen removed for cleared and staining, now cataloged as USNM 221997.

Paratype
USNM 221997 (1, 52.1 mm). Chile, Río Locomilla, San Javier; Irwin Expedition, 23 Mar 1919.
Remarks: Formerly USNM 84319, in part; specimen cleared and stained.

CHARACIDAE
Holotype
USNM 64094 (1, 21.8 mm). Panama, Canal Zone, small seepage pool below spillway of the reservoir dam at Gorgona; A.H. Jennings; 7 Feb 1908.
Remarks: Cited as 28 mm (? total length) in original description.

Paratypes
USNM 64095 (4, MISSING). Panama, Canal Zone, small seepage pool below spillway of the reservoir dam at Gorgona; A.H. Jennings; 7 Feb 1908.
Remarks: Collected with holotype; 5 specimens cited in original description, but only 4 cited in USNM ledgers.

Paratypes
USNM 127086 (3, 18.8–23.0 mm). Panama, Canal Zone, small seepage pool below spillway of the reservoir dam at Gorgona; A.H. Jennings; 7 Feb 1908.
Remarks: Collected with holotype; specimens originally cited as deposited in "Reserve Series of the Bureau of Fisheries."

CHARACIDAE
Cheirodon kiliani Campos, 1982:154, figs. 10, 11.
Paratype
USNM 227309 (1, 26.9 mm). Chile, Valdivia, Río Cau-Cau; H. Campos, 28 Aug 1963.
Remarks: Received from H. Campos, formerly IZUA 2341, in part.

Paratypes
USNM 227310 (1, 25.3 mm). Chile, Valdivia, Río Cau-Cau; H. Campos, 28 Aug 1963.
Remarks: Received from H. Campos, formerly IZUA 2341, in part.

CHARACIDAE
Cheirodon mitopterus Fink and Weitzman, 1974:12, figs. 6, 7.
Holotype
USNM 208539 (1, 35.0 mm). Panama, Coöle Province,

Paratypes
USNM 208513 (8, 28.5–36.8 mm). Panama, Coce Province, Rio Coce del Norte basin, Rio Tucue at junction of river and road between Tucue and Tambo; J.D. McPhail, 18 Aug 1972.

Remarks: Collected with holotype; 7 specimens cited in original description; 1 specimen cleared and stained.

CHARACIDAE
Cheirodontops geayi Schultz, 1944:319, fig. 42, 43.

Holotype
USNM 121507 (1, 37.3 mm). Venezuela, Estado de Aragua, Rio Guarico and tributaries between San Sebastian and San Casimiro; L.P. Schultz et al., 12 May 1942.

Paratypes
USNM 121508 (3, 32.7–36.9 mm). Venezuela, Estado de Aragua, Rio Guarico and tributaries between San Sebastian and San Casimiro; L.P. Schultz et al., 12 May 1942.

Remarks: 6 specimens cited in original description; 1 specimen exchanged to UMMZ Jun 1948; 1 specimen exchanged to CAS.

Lebiasinidae
Creagrutops maracaiboensis Schultz, 1944:327, figs. 45, 46.

Holotype
USNM 121531 (1, 22.1 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Paratypes
USNM 121532 (42, 9.7–21.7 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Remarks: Collected with holotype; 48 specimens cited in original description; 2 specimens exchanged to UMMZ Jan 1948, 2 specimens exchanged to MCZ Jul 1951; 1 specimen exchanged to MHNG May 1987, 1 specimen unaccounted for.

CHARACIDAE
Creagrutus bolivari Schultz, 1944:334, fig. 49.

Holotype
USNM 121497 (1, 51.3 mm). Venezuela, Estado de Aragua, Río Guárico and its tributaries, between San Sebastián and San Casimiro; L.P. Schultz et al., 12 May 1942.

Paratypes
USNM 121498 (82, 28.7–47.6 mm). Venezuela, Estado de Aragua, Río Guárico and its tributaries, between San Sebastián and San Casimiro; L.P. Schultz et al., 12 May 1942.

Remarks: Collected with holotype; 90 specimens cited in original description, 3 specimens exchanged to UMMZ Jun 1948, 5 specimens exchanged to MCZ Jul 1951.

CHARACIDAE
Creagrutus brevipinnis Eigenmann, 1913:10.

Paratypes
USNM 79188 (4, 31.9–41.8 mm). Colombia, Piedra Molera.

Remarks: Received from CM; presumably formerly CM 4887a–i, in part; collector C.H. Eigenmann.

CHARACIDAE
Creagrutus cochui Géry, 1964d:56, fig. 12.

Holotype
USNM 200426 (1, 67.7 mm). Peru, upper Amazon region surrounding Iquitos; J. Roberts, end of 1963.

Creagrutus hildebrandi Schultz, 1944:330, figs. 47, 48.

Holotype
USNM 121482 (1, 49.7 mm). Venezuela, Maracaibo basin, Río Táchira, 7 km N of San Antonio, Catatumbo system; L.P. Schultz, 1 Apr 1942.

Paratype
USNM 121483 (1, 27.9 mm). Venezuela, Maracaibo basin, Río San Pedro at bridge, Río Motatán system; L.P. Schultz, 20 Mar 1942.

Paratypes
USNM 121484 (20, 24.2–44.6 mm). Venezuela, Maracaibo basin, Río San Juan near bridge, Motatán system; L.P. Schultz, 17–20 Mar 1942.

Paratypes
USNM 121485 (97, 19.7–57.8 mm). Venezuela, Maracaibo basin, Río Jimelles, 12 km E of Motatán; L.P. Schultz, 24 Mar 1942.

Paratypes
USNM 121486 (314, 13.7–39.6 mm). Venezuela, Maracaibo basin, Río Apón ~35 km S of Rosario; L.P.
SMITHSONIAN CONTRIBUTIONS TO ZOOLOGY

Schultz, 26 Feb 1942; 334 specimens cited in original description, 10 specimens exchanged to ZMA Mar 1958, 10 specimens exchanged to MCZ Jul 1951.

Paratypes
USNM 121487 (219, 16.3-53.8 mm). Venezuela, Maracaibo basin, Río Palmar near Totuma, ~100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.
Remarks: 229 specimens cited in original description; 10 specimens exchanged to ZMA Mar 1958, 10 specimens exchanged to MCZ Jul 1951.

Paratypes
USNM 121488 (159, 13.0-45.0 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Paratypes
USNM 121489 (154, 14.7-46.7 mm). Venezuela, Maracaibo basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 24 Feb 1942.

Paratypes
USNM 121490 (148, 19.5-48.7 mm). Venezuela, Maracaibo basin, Río Motatán, 8 km below Motatán; L.P. Schultz, 24 Mar 1942.

Paratypes
USNM 121491 (10, 30.2-64.6 mm). Venezuela, Maracaibo basin, Río Táchira, 7 km N of San Antonio, Catatumbo system; L.P. Schultz, 1 Apr 1942.
Remarks: Collected with holotype.

Paratypes
USNM 121492 (66, 16.9-44.9 mm). Venezuela, Maracaibo basin, Río Machango at bridge S of Lagunillas; L.P. Schultz, 16 Mar 1942.

Paratypes
USNM 121493 (11, 16.7-34.6 mm). Venezuela, Maracaibo basin, Río Machango, 20 km above bridge, S of Lagunillas; L.P. Schultz, 21 Mar 1942.

Paratypes
USNM 121494 (261, 13.4-50.7 mm). Venezuela, Maracaibo basin, Río Motatán at bridge, 22 km N of Motatán; L.P. Schultz, 17 Mar 1942.

Paratypes
USNM 121495 (16, 18.6-24.9 mm). Venezuela, Maracaibo basin, Río Palmar at bridge, 70 km NW of Maracaibo; L.P. Schultz, 6 Mar 1942.

Paratypes
USNM 121496 (387, 28.5-63.5 mm). Venezuela, Maracaibo basin, Río Motatán, 4 km above Motatán; L.P. Schultz, 25 Mar 1942.
Remarks: 403 specimens cited in original description; 10 specimens exchanged to UMMZ Jun 1948, 6 specimens exchanged to J. Géry Jan 1960, subsequently transferred to MHNG.

CHARACIDAE
Creagrutus simus Meek and Hildebrand, 1913:85.
Paratypes?
USNM 78570 (41, 26.4-51.0 mm). Panama, Río Cupe, Cituaro.

Curimata cerasina Vari, 1984:30, figs. 1-3.
Paratype

Paratypes
USNM 257086 (3, 125.6-139.8 mm). Venezuela, Apure, flooded area near the road from San Fernando de Apure to Arichuna, 15 km SE of San Fernando de Apure (~7°49'N, 67°23'W); O. Castillo, 7 May 1981.

Paratypes
USNM 257087 (2, 151.3-160.9 mm). Venezuela, Guárico, Apure in front of the airport at San Fernando de Apure (~7°53'N, 67°29'W); N. Ortiz et al., 5 Jan 1983.

Paratypes
USNM 257088 (2, 91.7-93.6 mm). Venezuela, Guárico, flooded borrow pit side of road from Calabozo to Camagüey (~8°17'N, 67°36'W); A. Machado-Allison and R.P. Vari, 20 Jan 1983.

CURIMATIDAE
Curimata fasciata Vari and Géry, 1985:1030, fig. 1.
Paratypes
USNM 270375 (2, 90.1-96.0 mm). Brazil, Mato Grosso; Rio Aripuanã, above cachoeira de Dardanelos (~10°19'42"S, 59°12'30"W).

Paratypes
USNM 270376 (2, 78.0-83.3 mm). Brazil, Mato Grosso; Cidade de Humboldt, Rio Aripuanã, ~10 km above cachoeira de Dardanelos.

Paratypes
USNM 270377 (4, 72.3-92.3 mm). Brazil, Território de Rondônia, Rio Romari (or São Domingo) near Nova União, Municipality of (=Município de) Ouro Preto de Oeste; G.W. Nunan et al., Nov 1983.

CURIMATIDAE
Curimata incompta Vari, 1984:34, figs. 4, 5.
Paratypes
USNM 236551 (1, 42.3 mm). Venezuela, Monagas, pools on Cocos Island, Río Orinoco opposite Los Castillos, (8°30'42"N, 62°26'06"W); E. Marsh and D. Stewart, 10 Nov 1979.
Paratype
USNM 236552 (1, 64.8 mm). Venezuela, Monagas, Río Orinoco, inlet below Barrancas, (8°43'N, 62°08'W); J. Baskin et al., 17 Feb 1978.

Paratypes
USNM 236553 (9, 58.7–72.0 mm). Venezuela, Monagas, Caño between Río Orinoco and Laguna Guatero, near Barrancas, (8°43'N, 62°11'W); J. Lundberg et al., 12 Nov 1979.

Remarks: 2 specimens cleared and stained.

Paratypes
USNM 236554 (5, 57.9–61.5 mm). Venezuela, Territorio Federal Delta Amacuro, Carlo Paloma system (8°28'N, 61°25'36"W), 92 nautical miles [170.2 km] from Sea Buoy; D. Stewart et al., 21 Nov 1979.

Paratypes

Paratypes
USNM 236556 (4, 43.8–57.3 mm). Venezuela, Territorio Federal Delta Amacuro, stream off Río Orinoco (8°37'36"N, 60°49'36"W); J. Baskin et al., 20 Nov 1979.

Paratype
USNM 236557 (1, 94.6 mm). Venezuela, Bolívar, Río Orinoco just downriver of San Félix (8°23'N, 62°40'W); J. Baskin et al., 17 Feb 1978.

Paratypes
USNM 236554 (5, 57.9–61.5 mm). Venezuela, Territorio Federal Delta Amacuro, Caño Paloma system (8°28'N, 61°25'36"W), 92 nautical miles [170.2 km] from Sea Buoy; D. Stewart et al., 21 Nov 1979.

Paratypes

Paratypes
USNM 236556 (4, 43.8–57.3 mm). Venezuela, Territorio Federal Delta Amacuro, stream off Río Orinoco (8°37'36"N, 60°49'36"W); J. Baskin et al., 20 Nov 1979.

Paratype
USNM 236557 (1, 94.6 mm). Venezuela, Bolívar, Río Orinoco just downriver of San Félix (8°23'N, 62°40'W); J. Baskin et al., 17 Feb 1978.

Paratypes
USNM 236554 (5, 57.9–61.5 mm). Venezuela, Territorio Federal Delta Amacuro, Caño Paloma system (8°28'N, 61°25'36"W), 92 nautical miles [170.2 km] from Sea Buoy; D. Stewart et al., 21 Nov 1979.

Paratypes

Paratypes
USNM 236556 (4, 43.8–57.3 mm). Venezuela, Territorio Federal Delta Amacuro, stream off Río Orinoco (8°37'36"N, 60°49'36"W); J. Baskin et al., 20 Nov 1979.
Curimata stigmosa  

Paratypes
USNM 285193 (3, 65.5–73.6 mm). Brazil; Rio Grande do Sul, Rio Jacui, at bridge on the road between Santa Maria and Veracruz (~29°41'S, 53°19'W); C. de Lucena et al., 16 Sep 1983.
Remarks: 1 specimen cleared and stained.

Paratypes
USNM 285191 (1, 53.7 mm). Brazil, Rio Grande do Sul, Rio Forqueta, at Marquês de Souza, Município de Lajeado; MZUSP/USNM expedition, 7 Nov 1979.

Paratypes
USNM 285190 (2, 43.5–56.5 mm). Brazil, Rio Grande do Sul, Arroio Chasqueiro (empties into Lagoa Mirim N of Arroio Grande), along highway (Br 116) between Pelotas and Jaguaraó, MZUSP/USNM expedition, 14 Dec 1978.

Curimatopsis crypticus  
Vari, 1982b: 19, figs. 15–18.

Holotype
USNM 226872 (1, 27.7 mm). Guyana, Rupununi District, stream ~2 km E of Lake Amucu (~3°43'N, 59°25'W).

Paratypes
USNM 226880 (15, 21.2–37.2 mm). Brazil, Igarapé Anapichi leading to Rio Negro 64 miles [102 km] NW of intersection of Rio Branco and Rio Negro, on Rio Negro; Axelrod, Sep 1975.
Remarks: Locality is in Amazonas state; 3 specimens cleared and stained.

Paratypes
USNM 226884 (4, 30.6–34.2 mm). Brazil, middle Rio Negro, Praia Mofulu on the Rio Itu; M. Brittan, Apr 1964.
Remarks: Locality is in Amazonas state.

Paratypes
USNM 228354 (3, 43.8–45.4 mm). Brazil, Monte Alegre; C. Ternetz.

Curimatopsis myersi  
Vari, 1982c:788, figs. 1, 2.

Holotype
USNM 198644 (1, 22.3 mm). Colombia, upper Rio Meta drainage, ~200 miles [~320 km] E of Bogota; R. Socolof et al., May 1963.
Remarks: Exact collection locality: Colombia, Rio Manacacias into upper Rio Meta, at Restrepo; collected with holotype.

Curimatopsis myersi  
Vari, 1982c:788, figs. 1, 2.

Holotype
USNM 233602 (1, 39.3 mm). Paraguay, San Pedro Department, in a swamp 3 km NE of Lima (~23°55'S, 56°29'W); N. Scott and L. Fitzgerald, 31 Oct 1981.

Paratypes
USNM 233601 (8, 27.0–42.4 mm). Paraguay, San Pedro Department, in a swamp 3 km NE of Lima (~23°55'S, 56°29'W); N. Scott and L. Fitzgerald, 31 Oct 1981.
Remarks: Collected with holotype; 1 specimen cleared and stained.

Curimatopsis argenteus  
Gill, 1858:422.

Lectotype
USNM 1114 (1, 67.3 mm). Trinidad, W.I. (West Indies), western portions.

Paralectotypes
USNM 293745 (2, 51.5–61.5 mm). Trinidad, W.I. (West Indies), western portions.

Curimatopsis atratoensis  
Eigenmann, 1912b:19.

Paratypes
USNM 79192 (3, 69.5–76.5 mm). Colombia, Quibdo; C.H. Eigenmann.
Remarks: Received from CM, presumably formerly CM 4833a–j, in part.

Curimatopsis bimaculatus sialis  
Eigenmann and Eigenmann, 1889b:422.

Lectotype
USNM 120401 (1, 126.0 mm). Manacapuru, W. James.
Remarks: Received from MCZ, formerly MCZ 20206, in part; complete collection information: Brazil, Amazonas, Lago Grande de Manacapuru; designated as lectotype by Vari (1991:49).

Curimatopsis brevipes  
Eigenmann and Ogle, 1907:3, fig. 1.

Holotype
USNM 35333 (1, 120.9 mm). Peru?; Orton collection.
Remarks: Originally cited as 131 mm to base of caudal; Vari (1989d:20) notes that the specimen probably originated in Pacific slope drainages.

Curimatopsis elegans bahiensis  
Eigenmann and Eigenmann, 1889b:421.

Paratypes
USNM 120251 (5, 38.5–43.0 mm). Bahia; Thayer
Expedition.
Remarks: Received from MCZ, formerly MCZ 20324, in part; complete locality information: Brazil, Bahia, Salvador and environs; lectotype designated by Vari (1991:96).

**Curimatus leuciscus bolivae** Eigenmann and Ogle, 1907:4.
Holotype
USNM 44832 (1, 91.5 mm). Bolivia; Gibbon.
Remarks: Originally cited as 95 mm to base of caudal; USNM ledger indicates that specimen was collected in “Mamora R.,” presumably Rio Mamoré, by Lt. Lardner Gibbon, Aug 1852.

**Curimatus morawhannae** Eigenmann, 1912a:266, pl. XXXIV: fig. 3.
Paratypes
USNM 66142 (2, 37.5–38.6 mm). British Guiana [=Guyana], Mora Passage; C.H. Eigenmann.
Remarks: Received from CM, presumably formerly CM 2120a,b, in part; Vari (1991:87) noted that there is a discrepancy between the number of paratypes from this locality cited by Eigenmann (1912a) and the total number of putative paratypes of the species from this locality deposited in the USNM, CAS, and BMNH.

**Curimatus plumbeus** Eigenmann and Eigenmann, 1889b:425.
Syntypes
USNM 120256 (6, 58.5–97.9 mm). Lake Hyanuary; Navez.
Remarks: Received from MCZ, formerly MCZ 20348, in part; complete locality information: Brazil, Amazonas, Parana do Januari; Senhor Naves, 10 Jan 1866.

**Curimatus reticulata** Eigenmann and Allen, 1942:295, pl. XIV: fig. 2.
Paratypes
USNM 167807 (7, 68.8–87.5 mm). Peru, Lago Cashiboya; W.R. Allen, Aug 1920.
Remarks: Specimen received from UKEN, through W.R. Allen; originally IU 17857, in part; USNM ledger cites 8 specimens; 1 specimen unaccounted for.

**Curimatus spiluropsis** Eigenmann and Eigenmann, 1889b:420.
Syntypes
USNM 120403 (2, 53.9–54.5 mm). Ica; W. James.
Remarks: Received from MCZ, and supposedly formerly MCZ 20216, in part. That lot was, however, irretrievably intermingled with MCZ 20218, syntypes of *Curimatus spiluropsis* and MCZ 27408, non-type specimens of the species from the type locality. MCZ 20216 furthermore originally contained only 1 specimen, whereas there are two specimens in lot at this time; second or perhaps both specimens presumably out of MCZ 20218 or 27408. Specimens consequently potentially syntypes. Complete collection information: Brazil, Amazonas, Rio Içá (tributary of Rio Solimões) near Brazilian-Colombian border; W. James and “Talisman,” Sep 1865.
de Jatuncocha (01°00'S, 75°29'W); R. Barriga, 29 Sep 1988.

Paratype
USNM 280573 (1, 72.0 mm). Peru, Loreto, Río Nanay, Nanay beach along river W of Iquitos (−3°50'S, 73°11'W); R.P. Vari et al., 17 Aug 1986.

Paratype
USNM 305617 (1, 98.2 mm). Ecuador, Napo, Estero Culebrero, tributary of Río Yasuni (0°54′45″S, 76°13′03″W); R. Barriga, 9 May 1988.

CURIMATIDAE

Cyrtocharax kincaidi Schultz, 1950:60.

Holotype
USNM 1694 (1, 169.7 mm). Paraguay; Captain T.J. Page, 1853.

CHARACIDAE

Cyrtocharax magdalenae venezuelae Schultz, 1944:298, fig. 37.

Holotype
USNM 121390 (1, 203.0 mm). Venezuela, Maracaibo Basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Paratype
USNM 121391 (1, 243.3 mm). Venezuela, Maracaibo basin, caño ¾ km W of Sinamaica; L.P. Schultz, 11 Mar 1942.

Remarks: 2 specimens cited in original description; 1 exchanged to RMNH Mar 1952.

Paratype
USNM 121392 (1, 208.0 mm). Venezuela, Maracaibo basin, Río Palmar near Totuma, ~100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.

Paratypes
USNM 121393 (5, 197.0–250.0 mm). Venezuela, Maracaibo Basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 24 Feb 1942.

Paratypes
USNM 121394 (3, 183.3–206.5 mm). Venezuela, Maracaibo basin, Río Palmar at bridge, 70 km SW of Maracaibo; L.P. Schultz, 6 Mar 1942.

Remarks: 4 specimens cited in original description; 1 specimen exchanged to ZMA Mar 1958.

Paratypes
USNM 121395 (3, 184.1–203.3 mm). Venezuela, Maracaibo Basin, Río Apón ~35 km S of Rosario; L.P. Schultz, 26 Feb 1942.

Remarks: 4 specimens cited in original description; 1 specimen exchanged to MCZ Jul 1951.

Paratypes
USNM 121396 (EXCHANGED) Venezuela, Maracaibo Basin, Río Motatán at bridge, 22 km N of Motatán; L.P. Schultz, 17 Mar 1942.

Remarks: Lot exchanged to UMMZ 1 Jun 1948; originally cited as 2 specimens, 205–206 mm SL.

Paratypes
USNM 121397 (2, 223.8–237.5 mm). Venezuela, Maracaibo Basin, Río Machango at bridge S of Lagunillas; L.P. Schultz, 16 Mar 1942.

Paratypes
USNM 121398 (7, 165.2–292.8 mm). Venezuela, Maracaibo Basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Remarks: Collected with holotype.

CHARACIDAE

Deuterodon pinnatus Eigenmann, 1909:25.

Paratype
USNM 66171 (1, 43.0 mm). British Guiana [= Guyana], Amatuk; C.H. Eigenmann, Sep–Dec, 1908.

Remarks: Received from CM, presumably formerly CM 1047, in part.

Paratype
USNM 66172 (1, 15.8 mm). British Guiana [= Guyana], Warraputa; C.H. Eigenmann, Sep–Dec, 1908.

Remarks: Received from CM, presumably formerly CM 1049a–c, in part.

CHARACIDAE

Distoechus stigmatus Gomes, 1947:13, fig. 2, pl. I: fig. 2.

Paratype
USNM 143846 (1, 23.6 mm). Brazil, Rio Grande do Sul, Conceição do Arroio County [= Municipio de Conceição do Arroio], backwater of Río Maquine, tributary to Lagoa dos Quadros; H. Kleerekoper, Jun 1941.

Remarks: Received from UMMZ, formerly UMMZ 143274, in part; collected with holotype.


Paratypes
USNM 216558 (2, 14.4–15.6 mm). Brazil, state of Amazonas, Río Negro, Lago Paricatuba (3°7'S, 60°30'W); P. Vanzolini, EPA, 11 Nov 1972.

CHARACIDAE


Paratypes
USNM 270147 (2, 12.3–12.7 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Chola, where crossed by road from San Carlos de Río Negro to Solano (~1°58′N, 67°00′W); R.P. Vari et al., 5 Dec 1984.

Paratypes
USNM 274100 (2, 12.7–13.3 mm). Brazil, Amazonas, igarapé Tarumzinho, ~45 km N of Manaos on road between Manaos, Amazonas, and Caracari, Roraima
CHARACIDAE

Elopomorphus Jordanii Gill, 1878:112.
Holotype
USNM 5926 (1, 180.0 mm). Bolivia, Mamora River; Lt. Gibbon.
Remarks: Mamora River is presumably Río Mamoré.

Holotype
USNM 213842 (1, 52.4 mm). Panama, Bayano river basin, pool in small stream ~19 km along road from El Llano to Cartí, ~0.5 km downstream from the road; J.D. McPhail and R. Dressler, 10 Mar 1973.
Remarks: Collected with holotype; 22 specimens cited in original description, 3 specimens exchanged to MZUSP Nov 1975, 2 specimens exchanged to MCZ Jan 1977, 3 specimens exchanged to UMMZ 4 Aug 1986.

Erythrinus cinereus Gill, 1858:413.
Holotype
USNM 5882 (1, 202.1 mm). Trinidad, W.I. (West Indies), western portions.
Remarks: Received from T. Gill.

Erythrinus Kessleri Steindachner, 1876:596.
Syntype
USNM 120407 (1, 66.6 mm). Bahia.
Remarks: Steindachner evidently based this species on a series of Thayer Expedition specimens, but did not specifically state whether the description was based on material he had examined at MCZ or specimens he had brought back to NWM or both. Specimens received from MCZ, formerly MCZ 21480, in part; complete collection information: Brazil, Bahia, Salvador and environs; F.C. Hartt and E. Copeland, Jun 1866.

Gasteropelecus fasciatus Garman, 1890b:9.
Syntypes
USNM 120261 (6, 24.0–36.0 mm). Brazil, Manacapouri; Thayer Expedition.
Remarks: Received from MCZ, formerly MCZ 21286, in part; complete collection information: Brazil, Amazonas, Lago Grande de Manacapuru; W. James, 27 Nov 1865.

Gusteropelecidae

Gasteropelecus pectorosus Garman, 1890b:9.
Syntypes
USNM 120412 (2, 43.9–45.8 mm). Brazil, Manacapouri; Thayer Expedition.
Remarks: Received from MCZ, formerly MCZ 21283, in part; complete collection information: Brazil, Amazonas, Lago Grande de Manacapuru; W. James, 27 Nov 1865.

CHARACIDAE

Genycharax tarpon Eigenmann, 1912b:23.
Paratype
USNM 79207 (1, 112.1 mm). Colombia, Cartago.
Remarks: Received from CM, presumably formerly CM 4809a–c, in part.

CHARYCIDAE

Gephyrocharax caucanus Eigenmann, 1912b:24.
Paratypes
USNM 81921 (3, 43.0–50.6 mm). Colombia, Cartago.
Remarks: Received from CM, presumably formerly CM 4803a–j, in part.

Gephyrocharax chocoensis Eigenmann, 1912b:23.
Paratypes
USNM 76973 (12, 28.8–47.2 mm). Colombia, Istmina.
Remarks: Received from IU, presumably formerly IU 12671, in part; Eigenmann indicated that he made his collections at Istmina 18–20 Mar 1912.
Paratypes
USNM 79208 (2, 45.1–48.0 mm). Colombia, Istmina.
Remarks: Received from CM, presumably formerly CM 4807a–j, in part; Eigenmann indicated that he made his collections at Istmina 18–20 Mar 1912.

CHARYCIDAE

Gephyrocharax intermedius Meek and Hildebrand, 1916:278.
Paratypes
USNM 78556 (26, 22.8–35.5 mm). Panama, Río Chame.
Remarks: Meek and Hildebrand specifically cited only holotype, but description was based on more than one specimen; 29 specimens originally cited in USNM ledger, 3 specimens unaccounted for.

Gephyrocharax melanocheir Eigenmann, 1912b:24.
Paratypes
USNM 79209 (2, 31.7–35.4 mm). Colombia, Bernal Creek.
Remarks: Received from CM, presumably formerly CM 4840a–f, in part.
Gephyrocharax venezuelae Schultz, 1944:324, fig. 44.

**Holotype**
USNM 121369 (1, 32.4 mm). Venezuela, Maracaibo basin, Río San Juan at the bridge S of Mene Grande, Motatán system; L.P. Schultz, 20 Mar 1942.

**Paratype**
USNM 121359 (1, 24.1 mm). Venezuela, Maracaibo basin, Río Apón, ~35 km S of Rosario; L.P. Schultz, 26 Feb 1942.

**Paratype**
USNM 121360 (1, 22.9 mm). Venezuela, Maracaibo basin, Caño de Sagua, 35 km N of Sinamaica; L.P. Schultz, 12 Mar 1942.

**Paratypes**
USNM 121361 (24, 22.9-36.8 mm). Venezuela, Maracaibo basin, Río San Juan at the bridge S of Mene Grande, Motatán system; L.P. Schultz, 20 Mar 1942.

**Remarks:** 24 specimens cited in original description; 25 specimens cited in ledger; 1 specimen unaccounted for.

**Paratypes**
USNM 121362 (11, 21.8-34.1 mm). Venezuela, Maracaibo basin, Río Palmar near Totuma, ~100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.

**Remarks:** Formerly USNM 121366, in part; specimens cleared and stained.

**Paratypes**
USNM 235926 (2, 38.6-40.2 mm). Panama, Pacific slope, Río Chame and several smaller nearby coastal streams crossing the National Highway between Campana and La Venta.

**Remarks:** Formerly USNM 109276, in part; specimens cleared and stained.

**Holotype**
USNM 106513 (1, 39.0 mm). Panama, Pacific slope, Río Chame or a nearby stream.

**Remarks:** Hildebrand noted that the specimens that served as the basis for the description came from the Río Chame and several smaller nearby coastal streams crossing the national highway between Campana and La Venta.

**Paratypes**
USNM 109276 (39, 18.4-45.9 mm). Panama, Pacific slope, Río Chame and several smaller nearby coastal streams crossing the National Highway between Campana and La Venta.

**Remarks:** 41 specimens originally in lot, 2 specimens recataloged as USNM 235926.

**Paratypes**
USNM 236087 (3, 28.7-32.4 mm). Venezuela, Maracaibo Basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

**Remarks:** Formerly USNM 121366, in part; specimens cleared and stained.

**Paratypes**
USNM 121386 (1, 116.4 mm). Venezuela, Maracaibo basin, Estado de Zulia, caño half a mile [0.8 km] W of Sinamaica; L.P. Schultz, 11 Mar 1942.

**Remarks:** Collected with holotype.

**Paratypes**
USNM 121387 (4, 104.8-122.8 mm). Venezuela, Maracaibo basin, Estado de Zulia, caño half a mile [0.8 km] W of Sinamaica; L.P. Schultz, 11 Mar 1942.

**Remarks:** Collected with holotype.
Paratype
USNM 121388 (1, 60.5 mm). Venezuela, Maracaibo basin, Río Socuy 3 km above its mouth; L.P. Schultz, 24 Feb 1942.

Paratype
USNM 121389 (1, 74.2 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

**CHARACIDAE**

*Glandulocauda melanogenys* Eigenmann, 1911:168, pi. V: fig. 6.

Paratypes
USNM 177724 (2, 30.9-37.3 mm). Brazil, São Paulo, Alto da Serra; J.D. Haseman, 25 Jul 1908.

Remarks: Received from FMNH, formerly CM 3554, in part.

**CHARACIDAE**

*Glandulocauda melanopleura* Eigenmann, 1911:170, pl. V: fig. 7.

Paratype
USNM 177725 (1, 28.6 mm). Brazil, Serinha Paraná, Rio Iguassii; J.D. Haseman, 22 Dec 1908.

Remarks: Received from FMNH, formerly CM 3558, in part.

**CHARACIDAE**

*Gymnocorymbus socolofi* Géry, 1964a:25, fig. 1.

Holotype
USNM 198646 (1, 47.7 mm). Colombia, Rio Meta drainage, ~200 miles (~320 km) E of Bogota; R. Socolof et al., May 1963.

Remarks: Complete collection information: Colombia, Rio Manacacias into upper Rio Meta at Restrepo; cited as 52 mm SL in original description.

**CHARACIDAE**

*Hemibrycon beni* Pearson, 1924:42, pl. II: fig. 6.

Paratypes
USNM 117543 (2, 31.5-42.1 mm). Bolivia, Espia; N.E. Pearson, Jul 1921.

Remarks: Received from UMMZ, formerly UMMZ 66504, in part; originally IU 17321, in part.

**CHARACIDAE**

*Hemibrycon dariensis* Meek and Hildebrand, 1916:285, pl. XX.

Paratypes
USNM 78594 (8, 28.2-44.9 mm). Panama, Río Tuyra basin, Río Yape.

Remarks: 9 specimens originally cited in USNM ledgers; 1 specimen unaccounted for.

**CHARACIDAE**

*Hemibrycon dentatus jabonero* Schultz, 1944:363, fig. 55.

Holotype
USNM 121455 (1, 95.6 mm). Venezuela, Maracaibo basin, Estado de Mérida, Río Chama at Estanques; L.P. Schultz, 3 Apr 1942.

Paratypes
USNM 121465 (25, 25.3-64.9 mm) Venezuela, Maracaibo basin, Río Motatán, 4 km above Motatán; L.P. Schultz, 25 Mar 1942.

Paratypes
USNM 121464 (2, 24.3-57.8 mm). Venezuela, Maracaibo basin, Río Motatán, 8 km below Motatán; L.P. Schultz, 24 Mar 1942.

**CHARACIDAE**

*Hemibrycon orcesi* Böhlke, 1958:24, pi. 2: fig. 4.

Holotype
USNM 164064 (1, 46.7 mm). Ecuador, Santiago-Zamora, upper portion of Río Macuma, northern
tributary of Río Morona (Río Amazonas system), between 2°7'-13°S, 77°35'-47°W; B. Pazmiño, Apr 1953.
Remarks: Cited as 49.5 mm SL in original description
Paratype
USNM 175128 (1, 47.9 mm). Ecuador, Santiago-Zamora, upper portion of Río Macuma, northern tributary of Río Morona (Río Amazonas system), between 2°7'-13°S, 77°35'-47°W; B. Pazmiño, Apr 1953.
Remarks: Collected with holotype.

**Hemigrammus aereus** Géry, 1959a:257, fig. 4.
Paratype
USNM 179759 (1, 21.0 mm). French Guiana, Clique Nancibo, basin of the Conte a headwater of the Mahury; J. Géry, Sep 11, 1957.
Remarks: Received from J. Géry.

**Hemigrammus analis** Durbin, 1909:64.
Paratypes
USNM 66192 (1, 18.2 mm). British Guiana [= Guyana], Gluck Island; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably previously CM 1468a-e, in part.
Paratypes
USNM 66193 (2, 21.3-21.4 mm). British Guiana [= Guyana], Rockstone; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably previously CM 1467a-j, in part.

**Hemigrammus armstrongi** Schultz and Axelrod, 1955:5, text fig.
Holotype
USNM 163868 (1, 18.5 mm). British Guiana [= Guyana], near Georgetown.
Paratypes
USNM 163869 (20, 15.4-25.4 mm). British Guiana [= Guyana], near Georgetown.

**Hemigrammus compressus** Meek, 1904:87, fig. 25.
Paratypes
USNM 55728 (2, 26.0-29.5 mm). Mexico, Oaxaca, Río Papaloapan basin, Obispo.
Remarks: Received from FMNH; evidently paratypes, only holotype cited in original description, but description based on more than one specimen.

**Hemigrammus cylindricus** Durbin, 1909:62.
Paratype
USNM 66191 (1, 38.8 mm). British Guiana [= Guyana], Crab Falls; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1463a-c, in part.

**Hemigrammus erythrozonus** Durbin, 1909:56.
Paratypes
USNM 66187 (2, 18.3-18.9 mm). British Guiana [= Guyana], Erukin; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1449a-e, in part.

**Hemigrammus guyanensis** Géry, 1959a:254, fig. 3.
Paratypes
USNM 179756 (8, 17.5-21.1 mm). French Guiana, Maroni, creek near Ga Kaba; J. Géry, 21 Nov 1957.
Remarks: Received from J. Géry.

**Hemigrammus inconstans** Eigenmann in Eigenmann and Ogle, 1907:17, fig. 4.
Holotype
USNM 34591 (1, 41.6 mm). Brazil, Para (?); J.C. Brevoort.
Remarks: Original description indicates that Brevoort was "presentor" of specimen whereas USNM ledger cites him as collector; second "type" cited under this species (USNM 55652) is an erroneous repeat of catalog number for "type" of *Hemigrammus santae* from previous page of Eigenmann and Ogle's publication; "cotypes" of *Hemigrammus inconstans* now cataloged as USNM 306824; originally cited as "44 mm to base of caudal (58 over all)."
Paratype
USNM 306824 (1, 32.9 mm). Brazil, Para (?); J.C. Brevoort.
Remarks: Collected with holotype; originally USNM 34591, in part; 4 "cotypes" 37 to 45 mm "to base of caudal" (47 to 57 "over all") cited in original description; 3 specimens unaccounted for.

**Hemigrammus levis** Durbin in Eigenmann, 1908:100.
Syntypes
USNM 120266 (6, 32.0-38.9 mm). Brazil, Lago do Maximo; Thayer Expedition.
Remarks: "Type" (= Lectotype) designated by Eigenmann, 1918:149; "Type" was not, however, identified by Eigenmann (H. Higuchi, pers. comm.), consequently "Type" cannot be identified and these specimens are treated as syntypes; received from MCZ, formerly MCZ 20738, in part; complete collection data: Brazil, Amazonas, Lago Máximo (small lake near Parintins); L. Agassiz et al., 27 Aug 1865.

**Hemigrammus micropterus boesemanni** Géry, 1959a:251, fig. 2.
Paratype
USNM 179758 (1, 25.2 mm). Guyane [= French Guiana], creek near Sinnamary; J. Géry, 11 May 1957.
Remarks: Received from J. Géry.
Hemigrammus microstomus Durbin in Eigenmann, 1918:165.
Syntypes
USNM 120267 (3, 22.3–23.1). Santarem; Bourget.
Remarks: Eigenmann (1918:165) designated a "Type" and "Paratypes"; however, he did not identify "Type" (= Holotype); consequently these specimens are treated as syntypes; received from MCZ, formerly MCZ 20782, in part; complete collection information: Brazil, Pará, Santarem and environs; D. Bourget, Aug 1865.

CHARACIDAE

Hemigrammus orthus Durbin, 1909:61.
Paratype
USNM 66190 (1, 12.7 mm). British Guiana [= Guyana], Gluck Island; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1479a-f, in part.

CHARACIDAE

Hemigrammus proneki Géry, 1963b:14, fig. 2.
Holotype
USNM 198648 (1, 28.7 mm). Near Tapurucuara, upper Rio Negro; H.A. Axelrod, 1962.
Remarks: Originally cited as 30.5 mm SL; complete collection information: Brazil, Amazonas, upper Rio Negro, near Tapurucuara.

CHARACIDAE

Hemigrammus pulcher haraldi Géry, 1961c:44, fig. 2.
Holotype
USNM 196672 (1, 26.0 mm). Brazil, upper Solimões, environs of São Paulo de Olivença; H. Schultz, late 1960.
Remarks: Additional type locality information lake between Paraná-Pará and Paraná Comatia.

CHARACIDAE

Hemigrammus rodwayi Durbin, 1909:58.
Paratypes
USNM 66188 (5, 30.4–35.0 mm). British Guiana [= Guyana], Georgetown Trenches; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1451a-z, in part.

CHARACIDAE

Hemigrammus saniae Eigenmann in Eigenmann and Ogle, 1907:16.
Holotype and Paratype
USNM 55652 (2, 34.0–53.4 mm). Brazil, Lagoa Santa.
Remarks: USNM ledger indicates that specimens were collected by J. Reinhardt. Eigenmann cited a "Type" and mentioned a second (?) paratypic specimen in the species description, but did not give lengths for either of them, making it impossible to determine at this time which specimen is the holotype.

CHARACIDAE

Hemigrammus unilineatus cayennensis Géry, 1959a:248, fig. 1.
Paratypes
USNM 179757 (2, 25.6–29.3 mm). Guyane Francaise [= French Guiana], freshwater creek on Cayenne Island; M. Hergot and J. Géry, 10 Mar 1957.
Remarks: Received from J. Géry.

CHARACIDAE

Hemigrammus vorderwinkleri Géry, 1963b:11, fig. 1.
Holotype
USNM 198643 (1, 32.3 mm). Tapurucuara, upper Rio Negro; H.A. Axelrod, Nov 1962.
Remarks: Complete locality information: Brazil, Amazonas, upper Rio Negro, Tapurucuara.

CHARACIDAE

Hemiodopsis ocellata Vari, 1982a:188, figs. 1, 2.
Holotype
USNM 221175 (1, 170.0 mm). Surinam, Nickerie District, main stream of Dalbana Creek, ~150 m upstream of its junction with Kabalebo River (~4°47'S, 57°29'W); R.P. Vari, 7 Dec 1979.
Paratypes
USNM 225592 (1, 141.5 mm) Surinam, Nickerie District, slow-flowing side channel of Corantijn River ~180 km from its mouth (~5°08'S, 57°18'W); R. P. Vari and L.R. Parenti, 8 Sep 1980.
Paratypes
USNM 225594 (4, 129.0–142.0 mm). Surinam, Nickerie District, small creek and the surrounded flooded rain forest of Corantijn River (~5°32'S, 57°10'W); H.M. Madarie, 15 May 1980.

HEMIODONTIDAE

Hemiodopsis sterni Géry, 1964c:70, fig. 3.
Holotype
USNM 194377 (1, 78.8 mm). Brazil, Mato Grosso, Amazon system, shore of Alto Rio-Juruena not far from the road from Cuiaba to Porto Velho; H. Schultz, Jun–Oct 1962.
Paratype
USNM 194330 (1, 57.3 mm). Brazil, Mato Grosso, upper Juruena River; H. Schultz, 8 Jul 1962.
Paratype
USNM 194368 (1, MISSING). Brazil, Mato Grosso, Amazon system, shore of Alto Rio-Juruena not far from the road from Cuiaba to Porto Velho; H. Schultz, Jun–Oct 1962.
Remarks: Originally cited as 60 mm SL.

HEMIODONTIDAE
Hoplocharax goethei Géry, 1966d:291, figs. 2c, 7–11.
Paratypes

Hydrolycus Copei Gill, 1871:93.
Syntypes
USNM 55664 (3, 61.5–83.9 mm). Peru and Ecuador (= Ecuador), Maranon or upper Amazon and Napo rivers; J. Orton.
Remarks: 4 specimens cited in original description, 1 specimen unaccounted for.

CHARACIDAE
Hyphessobrycon bentosi Durbin in Eigenmann, 1908:101.
Syntypes
USNM 120270 (3, −22.6–24.7 mm). Obidos.
Remarks: Received from MCZ, formerly MCZ 20842a (now MCZ 20842), in part; specimens dried out at some point, length measurements approximate; complete collection information: Brazil, Pará, Rio Amazonas at Obidos; Thayer Expedition, 1865.

CHARACIDAE
Hyphessobrycon copelandi Durbin in Eigenmann, 1908:101.
Syntypes
USNM 120271 (6, 14.5–28.4 mm). Tabatinga.
Remarks: Received from MCZ, formerly MCZ 20771, in part; complete collection information: Brazil, Amazonas, Rio Solimões at Tabatinga (= Sapurara) and environs; Thayer Expedition, 1865.

CHARACIDAE
Holotype
USNM 216607 (1, 25.2 mm). Colombia, state of Vichada, Río Vichada, −50 km W of San José de Ocańó (4°14‘N, 70°20‘W), Río Orinoco basin; R. Socolof, 3–5 Jul 1974.
Paratypes
USNM 216606 (2, 24.8–25.9 mm). Colombia, state of Vichada, Río Vichada, ~50 km W of San José de Ocańó (4°14‘N, 70°20‘W), Río Orinoco basin; R. Socolof, 3–5 Jul 1974.
Remarks: Collected with holotype; 1 specimen cleared and stained.

CHARACIDAE
Holotype
USNM 232393 (1, 16.1 mm). Paraguay, Departamento San Pedro; swamp 3 km NW of Lima; Río Aguaray-guazu system (23°55‘S, 56°29‘W); N. Scott and L. Fitzgerald, 31 Oct 1981.
Paratypes
USNM 268474 (79, 12.9–16.6 mm). Paraguay, Departamento San Pedro; swamp 3 km NW of Lima; Río Aguaray-guazu system (23°55‘S, 56°29‘W); N. Scott and L. Fitzgerald, 31 Oct 1981.
Remarks: Collected with holotype.

Hyphessobrycon ellisi Pearson, 1924:39, pl. X: fig. 2.
Syntype
USNM 117544 (1, 31.8 mm). Bolivia, Espía; N.E. Pearson, July 1921.
Remarks: Pearson noted (1924:7) that Espíá is at "the junction of the Miguilla and La Paz rivers"; received from UMMZ, formerly IU 17343 and UMMZ 66505, in part. Pearson identified the lot this specimen came from as "cotypes," a term often applied to paratypes by Eigenmann and his associates. No "type" was designated by Pearson making the "cotypes" syntypes in this instance.

CHARACIDAE
Hyphessobrycon eos Durbin, 1909:69.
Paratype
USNM 66195 (1, 24.3 mm). British Guiana (= Guyana), creek between Potaro Landing and Kangaruma; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1196a–e, in part.
Paratypes
USNM 66196 (2, 17.4–17.8 mm). British Guiana (= Guyana), Tukeit; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1195a–j, in part.
Paratype
USNM 165449 (1, 26.4 mm). British Guiana (= Guyana), creek between Potaro Landing and Kangaruma; C.H. Eigenmann, 1908.
Remarks: Received from FMNH; formerly FMNH 7353, in part, and presumably formerly CM 1196a–e, in part.

CHARACIDAE
Hyphessobrycon flammeus Myers, 1924:330, text fig.
Syntypes
USNM 92969 (2, 23.5–25.0 mm). Aquarium bred.
Remarks: Received from G.S. Myers, who noted in the accession papers (ace. 124667) that "These two specimens, male and female, are the two on which I based the description of the species..."; original stock from vicinity of Rio de Janeiro, Brazil.

CHARACIDAE
Hyphessobrycon guarani Mahnert and Géry, 1987:307, figs. 1, 2.
Paratypes
Remarks: Received from MHNG; formerly MHNG
CHARACIDAE

*Hyphessobrycon haraldschultzi* Travassos, 1960:5, fig. 1 and text-fig.
Paratypes
USNM 179749 (41, 13.7–17.3 mm). Brazil, Goiás [= Goiás], Ilha do Bananal; H. Schultz, summer 1959.

*Hyphessobrycon herbertaxelrodi* Géry, 1961b:29, fig. 4.
Holotype

*Hyphessobrycon igneus* Miguelarena et al., 1980:237, figs. 1, 2.
Paratype
USNM 256727 (1, 23.2 mm). Argentina, Corrientes, Lagoon near Escuela No. 12, road from Bella Vista to San Roque; C. Darrieu et al.
Remarks: Received from CIMLP.

*Hyphessobrycon innesi* Myers, 1936:97.
Holotype
USNM 102109 (1, 22.7 mm). Peruvian Amazon, likely near Iquitos.
Remarks: USNM ledgers indicate that the specimen was collected in 1935; Weitzman and Fink (1983:388) noted that the specimen probably originated in the Río Putumayo, in the state of Amazonas, Colombia.

*Hyphessobrycon panamensis* Durbin in Eigenmann, 1908:101.
Syntypes
USNM 120416 (2, 24.9–25.5). Panama.
Remarks: Received from MCZ, formerly MCZ 20688, in part; collected by Hassler Expedition.

*Hyphessobrycon poecilioides* Eigenmann, 1913:29.
Paratypes
USNM 79214 (4, 37.9–41.1 mm). Colombia, Cali.
Remarks: Received from CM, presumably formerly CM 5092a-o, in part; collector C.H. Eigenmann, Mar 1912.

Paratypes
Remarks: Received from MNHG, formerly MNHG 2385.69, in part; collected with holotype.

Paratypes
USNM 167819 (8, 27.0–29.5 mm). Ciénaga at Calamar.
Remarks: Received from UKEN, through W.R. Allen; formerly CM 5098 or IU 12854, in part; complete collection information: Colombia, Ciénaga at Calamar; C.H. Eigenmann, 17–18 Jan 1912.

Paratypes
USNM 79215 (4, 40.5–44.6 mm). Colombia, Quibdo.
Remarks: Received from CM, presumably formerly CM 5095a-z, in part.

Paratypes
USNM 66194 (1, 15.2 mm). British Guiana [= Guyana], Gluck Island; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1191a-e, in part; 2 specimens originally in lot.

*Hyphessobrycon saizi* Géry, 1964a:46, fig. 11.
Holotype
USNM 198647 (1, 22.3 mm). Colombia, upper Río Meta drainage, ~200 miles [=320 km] E of Bogota; H. Socolof et al., May 1963.
Remarks: Complete collection information: Colombia, Río Manacacias into upper Río Meta at Restrepo.

*Hyphessobrycon serpae* Durbin in Eigenmann, 1908:100.
Syntypes
USNM 120269 (6, 20.5–22.9 mm). Serpa.
Remarks: Received from MCZ, formerly MCZ 20985, in part; complete collection information: Brazil, Amazonas, Río Amazonas at Iacoatiara (formerly Serpa); Thayer Expedition, 1865.

*Hyphessobrycon simulans* Géry, 1963a:15, figs. 1–3.
Paratype
USNM 197510 (1, 14.7 mm). Rio Purus; H.W. Schwartz; Nov 1962.
Remarks: Received from J. Géry. Géry (1966c:231) noted that the originally stated type locality for the species is incorrect. According to H. Schwartz, the collector, the type locality is “the Río Jufaris (or Tupari), which empties into the Rio Negro just above the Rio Branco.”

Paratypes
USNM 216612 (5, 30.3–39.3 mm). Brazil, state of Amazonas, Río Negro, Barcelos (62°57'W, 0°58'S); collected for G. Entel, Feb–Mar 1976.

*Hyphessobrycon sovichthys* Schultz, 1944:350, fig. 53.
Holotype
USNM 121534 (1, 26.8 mm). Venezuela, Maracaibo basin, Ciénaga del Guanavana, ~10 km N of Sinamaica; L.P. Schultz, 11 Mar 1942.
Paratype
USNM 121535 (1, 27.2 mm). Venezuela, Maracaibo
basin, Río Palmar near Totuma, ~100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.

Paratypes
USNM 121536 (14, 21.3–29.9 mm) Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Paratype
USNM 121537 (1, 22.1 mm). Venezuela, Maracaibo basin, Río Agua Caliente, 2–3 km above Lago Maracaibo; L.P. Schultz, 1 May 1942.

Paratypes
USNM 121538 (37, 9.8–29.3 mm). Venezuela, Maracaibo basin, from a muddy pool tributary to Río G6 near Rosario; L.P. Schultz et al., 8 Mar 1942.

Paratypes

Paratypes
USNM 121540 (17, 24.9–28.5 mm). Venezuela, Maracaibo basin, Rio Ap6n, ~35 km S of Rosario; L.P. Schultz, 26 Feb 1942.

Remarks: 28 specimens cited in original description; 5 specimens exchanged to UMMZ Jun 1948; 5 specimens exchanged to MCZ Jul 1951; 1 specimen unaccounted for.

Paratypes
USNM 121541 (2, 20.7–25.3 mm). Venezuela, Maracaibo basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 24 Feb 1942.

Paratypes
USNM 121542 (7, 16.7–27.9 mm). Venezuela, Maracaibo basin, from a café ¾ km W of Sinamaica; L.P. Schultz 11 Mar 1942.

CHARACIDAE

Holotype
USNM 195942 (1, 30.1 mm). Brazil, savannahs of “northeastern” Brazil, between the lower Río Tocantins and the Río Capim; H. Schultz, Sep 1959.

Paratypes
USNM 195943 (2, 27.1 mm). Brazil, lower Amazon basin, Amapá Territory, Serra do Navio, above Macapá; G. Takase, Dec 1961.

CHARACIDAE
Hyphessobrycon takasei Géry, 1964b:15, fig. 2.

Holotype
USNM 198138 (1, 27.1 mm). Brazil, lower Amazon basin, Amapá Territory, Serra do Navio, above Macapá; G. Takase, Dec 1961.

CHARACIDAE
Hyphessobrycon tropis Géry, 1963b:57, fig. 5.

Holotype
USNM 198639 (1, 21.3 mm). Tapurucuara, upper Río Negro; H.A. Axelrod, Oct 1962.

Remarks: Complete locality information: Brazil, Amazonas, upper Río Negro, Tapurucuara.

CHARACIDAE
Hyphessobrycon vilmae Géry, 1966a:64, fig. 1.

Paratype
USNM 198137 (1, 26.3 mm). Brazil, upper Arinos-Juruena basin; H. Schultz, Jul 1962.

Remarks: received from J. Géry.

CHARACIDAE
Hysteroneotus hesperus Böhlike, 1958:35, fig. 6, pl. 3: fig. 2.

Holotype
USNM 164056 (1, 76.9 mm). Ecuador, Napo-Pastaza, Río Pucuno, tributary of Río Suno, tributary of upper Río Napo; M.E. Olalla, Nov 1950.

Paratype
USNM 175124 (1, 59.5 mm). Ecuador, Napo-Pastaza, Río Pucuno, tributary of Río Suno, tributary of upper Río Napo; M.E. Olalla, Nov 1950.

Remarks: Collected with holotype.

Paratype
USNM 164042 (1, 75.0 mm). Ecuador, Napo-Pastaza, Río Villano, southern tributary of upper Río Curaray, Río Napo system, near Villano (1°30’S, 77°28’W); M. Olalla, May 1948.

CHARACIDAE

Holotype
USNM 203697 (1, 49.0 mm). Peru, Huanuco Province, small stream directly tributary to Pachitea River (itself tributary to Ucayali River) at northeastern outskirts of Tournavista; J. Thomerson et al., 23 Aug 1964.

Paratypes
USNM 203698 (6, 25.3–32.6 mm). Peru, Huanuco Province, small stream directly tributary to Pachitea River (itself tributary to Ucayali River) at northeastern outskirts of Tournavista; J. Thomerson et al., 23 Aug 1964.

Remarks: Collected with holotype.

CHARACIDAE
Joberta eleotrioides Géry, 1960:4, fig. 3 and text-figure.

Paratypes
USNM 179760 (1, 16.7 mm). French Guiana, Middle-Mana, in a little brook between “St. Patawa” and “St. Grand Bacou” (between 53°–54°W and 4°–5°N); J. Géry, 16 Oct 1957.

Remarks: Received from J. Géry; originally 2 specimens in lot, 1 cleared and stained specimen exchanged to UMMZ Oct 1988.

CHARACIDAE
Klausewitzia aphanes Weitzman and Kanazawa, 1977:151, figs. 1–6.

Paratypes
USNM 213780 (2, 11.7–12.2 mm). Brazil, state of Amazonas, Río Negro, São João, near Tapurucuara, from an igarapé on terra firme; P. Vanzolini, EPA, 23 Oct 1972.
Paratyp e
USNM 213781 (1, 12.5 mm). Brazil, state of Amazonas, Rio Negro, Paricatuba, from a lake separate from the river; P. Vanzolini, EPA, 11 Nov 1972.

**Characidae**

*Knodus savannensis* Géry, 1961b:26, figs. 1, 2.

Holotype
USNM 196088 (1, 30.4 mm). Brazil, savannahs of “northeastern” Brazil, between the lower Rio Tocantins and the Rio Capim; H. Schultz, Sep 1959.

**Characidae**


Paratype
USNM 202502 (1, 17.9 mm). Ghana, small stream a mile and a half [2.4 km] E of Mpataba on the road to Half-Assini (−5°5′N, 2°35′W); T.R. Roberts, 28 Feb 1964.
Remarks: Formerly SU 63462, in part; collected with holotype.

**Characidae**


Paratype
USNM 66219 (1, 53.1 mm). British Guiana [= Guyana], Bartica; C.H. Eigenmann, 1908.
Remarks: Received from CM, presumably formerly CM 1828a–c, in part.

**Anostomidae**

*Leporinus conirostris* Steindachner, 1875b:233, pl. IV.

Syntypes?
USNM 120275 (2, 98.2–99.3 mm). Brazil, Mendez.
Remarks: Steindachner based this species on a series of Thayer Expedition specimens from various localities, but did not specifically state whether the description was based on material he had examined at MCZ, or on specimens he had brought back to NMW from that institution, or both. Specimens received from MCZ, formerly MCZ 20413, in part; complete collection information: Brazil, Rio de Janeiro, Mendes; F.C. Hartt and E. Copeland, 1865.

**Anostomidae**

*Leporinus marcgravii* Lütken, 1875:130.

Syntype
USNM 44951 (1, 97.0 mm). Brazil, Minas Gerais, Rio das Velhas; J. Reinhardt.
Remarks: Received from C. Lütken.

**Anostomidae**

*Leporinus mormyrops* Steindachner, 1875b:240, pl. VI.

Syntype
USNM 120420 (1, 126.3 mm). Brazil, Rio Parahyba.
Remarks: Steindachner noted that the species is based on a series of specimens in MCZ and NMW; received from MCZ, formerly MCZ 20366, in part; complete collection information: Brazil, Rio de Janeiro, Rio Paraíba do Sul system, Rio Piabana at Posse (~22°23′S, 43°01′W); C. Taylor for the Thayer Expedition, 1865.

**Anostomidae**

*Leporinus parae* Eigenmann in Eigenmann and Ogle, 1907:8, fig. 3.

Holotype
USNM 34613 (1, 71.7 mm). Brazil, Para [= Pará]; J.C. Brevoort.
Remarks: Eigenmann and Ogle cited Brevoort as presenter of specimen whereas USNM ledger cites him as collector; originally cited as “76 mm to end of lateral line”; paratype cited by Eigenmann as USNM 34613a now cataloged as USNM 306340.

Paratypes
USNM 34575 (2, 71.6–121.1 mm). Brazil, Para [= Pará]; J.C. Brevoort.
Remarks: Eigenmann cited 2 specimens for this lot in original description, 3 specimens cited in USNM ledger, 1 specimen unaccounted for; see under holotype with respect to collector; originally cited as “126 and 74 mm to end of lateral lines.”

Paratype
USNM 306340 (1, 59.7 mm). Brazil, Para [= Pará]; J.C. Brevoort.
Remarks: Specimen cited as USNM 34613a by Eigenmann; see under holotype for collector; originally cited as “63 mm to end of lateral line.”

**Anostomidae**

*Macrodon fer ox* Gill, 1858:411.

Syntype
USNM 1112 (1, 112.5 mm). Trinidad, W.I. (West Indies), western portions.
Remarks: Received from T. Gill.

Syntypes
USNM 6033 (2, 76.6–81.0 mm). Trinidad, W.I. (West Indies), western portions.
Remarks: Received from T. Gill.

**Erythrinidae**

*Megalamphodus sweglesi* Géry, 1961b:36, figs. 7–9.

Holotype
USNM 196090 (1, 27.9 mm). Upper Amazon, surroundings of Leticia (Colombia); K. Swegles, 1960.
Remarks: According to Géry (1966d:232) the originally stated type locality information is incorrect. Géry notes that F. Leidecker, the collector, stated that the specimen did not come from Leticia, but was rather collected “in the Rio Muco, upper Orinoco Basin, in 1954.”

**Characidae**


Paratypes
USNM 205527 (2, 97.2–105.2 mm) Brazil, Estado do Pará, Terra Santa, Igarapé do Rio Jamari; Expedição Permanente da Amazônia, 14 Dec 1967.
Remarks: Received from MCZ, formerly MCZ 46719, in part; 1 specimen cleared and stained.
Paratypes
USNM 205528 (2, 116.5–133.2 mm). Brazil, Estado do Amazonas, Rio Canum, Canum (near Maués); Expedição Permanente da Amazônia, 28–29 Nov 1967.
Remarks: Received from MCZ, formerly MCZ 46718.

**HEMIODONTIDAE**

*Mimagoniates barbellus* Regan, 1907:402.

Paralectotypes
USNM 179827 (2, 25.8–29.5 mm). Paraguay, Estación Caballero, Arroyo Yaca; Barbero.
Remarks: Received from BMNH, formerly BMNH 1907.10.22:7–8; cited as “lectoparatypes” by Weitzman and Fink (1985:105).

**CHARACIDAE**


Paratypes
USNM 66238 (2, 37.7–38.4 mm). British Guiana (= Guyana), Holmia, Potaro River; C.H. Eigenmann.
Remarks: Received from CM; presumably formerly CM 1005a–e, in part.

*Moenkhausia eigenmanni* Géry, 1964a:30, fig. 5.

Holotype
USNM 198640 (1, 48.5 mm). Colombia, ~200 miles [=~320 km] E of Bogota, upper Río Meta drainage; R. Socolof et al., May 1963.
Remarks: Complete locality information: Río Manacacias into upper Río Meta, at Restrepo.

Syntypes
USNM 120277 (3, 42.5–64.5 mm). Brazil, Tabatinga; Thayer Expedition.
Remarks: Received from MCZ, formerly MCZ 20769, in part; complete collection information: Brazil, Amazonas, Río Solimões at Tabatinga (Sapurara) and environs; Sep 1865.

*Moenkhausia lepidurus gracilimus* Eigenmann, 1908:104.

Syntypes
USNM 120279 (4, 40.6–44.2 mm). Serpa.
Remarks: Received from MCZ, formerly MCZ 20983, in part; complete collection information: Brazil, Amazonas, Río Amazonas at Itacoatiara (formerly Serpa); Thayer Expedition, 1865.

*Moenkhausia lepidurus latus* Eigenmann, 1908:103.

Syntypes
USNM 120278 (4, 42.4–49.9 mm). Río Tapajós.
Remarks: Received from MCZ, formerly MCZ 20860, in part; complete collection information: Brazil, Pará, Río Tapajós, northernmost part; W. James et al., 22 Jan 1866.
BMNH, formerly BMNH 1912.4.11:373-382, in part; complete locality information: Guinea Bissau, Geba river at Rafata.

**DISTICHODONTIDAE**


Paratypes
USNM 224524 (3, 25.3-28.7 mm). Gabon, still side arm of the upper Ivindo River opposite Bourassié, at junction of the Djouah and Karouaga rivers (−1°20′N, 13°12′E); J. and G. Géry, 2 Sep 1964.

**DISTICHODONTIDAE**

*Nannocharax seyboldi* Schultz, 1942:313, pi. 35: fig. 1.

Holotype
USNM 118757 (1, 32.9 mm). Liberia, Bellyella; W.M. Mann.

Remarks: Complete collection information: Liberia, Bellyella, in the St. Pauls River drainage, −100 miles [−160 km] inland from Monrovia; 23 Mar 1940.

Paratypes
USNM 118758 (3, 33.4-40.3 mm). Liberia, Bromley; W.M. Mann.

Remarks: Complete collection information: Liberia, Bromley, a few miles above mouth of St. Pauls River; 6 Jun 1940.

Paratype
USNM 118759 (1, 43.0 mm). Liberia, Bellyella; W.M. Mann.

Remarks: See holotype for complete collection information.

**DISTICHODONTIDAE**


Paratypes
USNM 277695 (6, 12.8-14.5 mm). Venezuela, Territorio Federal de Amazonas, Departamento de Ature, Caño Provincial, −20 km N of Puerto Ayacucho (−5°50′N, 67°30′W); R.P. Vari et al., 1 Dec 1984.

Paratypes
USNM 277696 (43, 11.1-13.4 mm). Venezuela, Territorio Federal de Amazonas, Departamento de Ature, Laguna Provincial, −20 km N of Puerto Ayacucho (−5°50′N, 67°30′W); R.P. Vari et al., 1 Dec 1984.

**LEBIASINIDAE**

*Nannostomus britskii* Weitzman, 1978:5, figs. 3, 4.

Paratype
USNM 216203 (1, 23.0 mm). Brazil, state of Amazonas, an igarapé of Lago José-Açu, Parantins, Amazon River; H. Britski, EPA, 11-12 Dec 1967.

**LEBIASINIDAE**

*Nannostomus limatus* Weitzman, 1978:9, figs. 6-8.

Paratype
USNM 216200 (1, 33.6 mm) Brazil, state of Pará, Lago Jacupá, Oriximiná; H. Britski, EPA, 17 Dec 1967.

Paratypes
USNM 216201 (7, 19.6-34.2 mm). Brazil, state of Pará, an igarapé tributary to Lago Mapará, near Santarém, Amazon River; H. Britski, EPA, 25 Dec 1967.

Paratypes
USNM 216202 (6, 15.5-27.7 mm). Brazil, state of Pará, Rio Maicá, Santarém; Y. Matsurura, EPA, 19-27 Oct 1967.

Remarks: 5 specimens reported in original description.

**LEBIASINIDAE**

*Nannostomus marginatus* Eigenmann, 1909:41.

Paratype
USNM 66252 (1, 18.0 mm). Cane Grove Corner.

Remarks: Received from CM; presumably formerly CM 1178a-f, in part; complete collection information: British Guiana [= Guyana], Cane Grove; C.H. Eigenmann, Sep 1908.

Paratype
USNM 165450 (1, 23.9 mm). Christianburg Canal.

Remarks: Received from FMNH; formerly CM 1177a and FMNH 52779; originally cited as 27 mm; complete collection information: British Guiana [= Guyana], Christianburg Canal; C.H. Eigenmann, 1908.

**LEBIASINIDAE**

*Nannostomus nitidus* Weitzman, 1978:3, figs. 1, 2.

Paratypes
USNM 216204 (8, 17.0-34.5 mm). Brazil, state of Pará, Igarapé Candiru-Mirim near Badajós, Rio Capim; N.A. Menezes, 29 Aug 1970.

**LEBIASINIDAE**


Paratypes
USNM 205598 (6, 14.1-26.0 mm). Colombia, Tambo; C. Wilson, 1913.

Remarks: Formerly IU 13027, in part.

Paratype
USNM 205646 (1, 30.7 mm). Colombia, Raspadura; C. Wilson, 1913.

Remarks: Formerly FMNH 56538, in part, and presumably originally CM 5352a-e, in part.

**LEBIASINIDAE**


Holotype
USNM 205594 (1, 35.7 mm). Aquarium specimen probably from Río Calama, Colombia, or a descendant
of specimens collected there by Kyburz or later collectors.

Paratypes
USNM 205595 (3, 26.0-29.2 mm). Aquarium specimen probably from Río Calama, Colombia, or a descendant of specimens collected there by Kyburz or later collectors.

Paratypes
USNM 205596 (4, 31.2-32.4 mm). Aquarium specimen probably from Río Calama, Colombia, or a descendant of specimens collected there by Kyburz or later collectors.

CHARACIDAE


Paratypes
USNM 232955 (6, 34.0-51.7 mm). Brazil, Minas Gerais, Municipio Medina, Rio Jequitinhonha at Itaubim (~16°40'S, 41°23'W); H. Britski and N.A. Menezes, 25 Jun 1966.

Remarks: 2 specimens cleared and stained.

Paratypes
USNM 232956 (8, 34.7-52.0 mm). Brazil, Minas Gerais, Municipio Medina, Rio Jequitinhonha at Itaubim (~16°40'S, 41°23'W); H. Britski and N.A. Menezes, 25 Jun 1966.

Remarks: 7 specimens cited in original description.

Paratypes
USNM 270816 (15, 29.5-41.7 mm). Brazil, Minas Gerais, Municipio Jequitinhonha, Rio Jequitinhonha, near km 205, road between Salto da Divisa and Jacinto (~16°02'S, 40°00'W); N.A. Menezes et al., 22 Mar 1985.

Remarks: Collected with holotype.

CHARACIDAE


Paratypes
USNM 301201 (25, 10.4-14.3 mm) Nigeria, Sombreiro River, near Ahoada (5°55', 6°39'E); T.R. Roberts, 8 Dec 1987.

DISTICHODONTIDAE

*Odontostilbe hastatus* Eigenmann, 1913:27.

Paratypes
USNM 79223 (2, 26.1-27.0 mm). Colombia, Bernal Creek.

Remarks: Received from CM, presumably formerly CM 5104a-j, in part.

CHARACIDAE

*Oligosarcus longirostris* Menezes and Géry, 1983:576, fig. 4.

Paratypes
USNM 228080 (2, 130.0-145.0 mm). Brazil, Paraná, Rio Iguacu (Paraná basin) at Porto Lupion, Superintendência de Recursos Hídricos do Meio Ambiente do Estado do Paraná, May 1979.

Remarks: Collected with holotype.

CHARACIDAE

*Oligosarcus paranensis* Menezes and Géry, 1983:572, fig. 3.

Paratypes
USNM 228081 (2, 108.0-124.0 mm). Brazil, Paraná, Arroio Guacu (Paraná river system); Companhia de Tecnologia de Saneamento Ambiental, São Paulo, Jul 1980.

Paratypes
USNM 228082 (5, 98.0-138.0 mm). Brazil, São Paulo, Represa de Salesópolis (Tietê river system); Instituto de Pesca da Secretaria da Agricultura do Estado de São Paulo, 23 Apr 1975.

Remarks: Collected with holotype.

CHARACIDAE

*Oligosarcus schindleri* Menezes and Géry, 1983:566, fig. 2.

Paratype
USNM 228088 (1, 82.0 mm). Bolivia, Cochabamba, Laguna Alalay; P. Luiz et al., 13 Oct 1953.

CHARACIDAE

*Parapristella georgiae* Géry, 1964a:44, figs. 9, 10.

Holotype
USNM 198641 (1, 28.8 mm). Colombia, upper Rio Meta drainage, ~200 miles (~320 km) E of Bogota; R. Socolof et al., May 1963.

Remarks: Complete locality information: Colombia, Rio Manacacias, into upper Rio Meta, at Restrepo.

CHARACIDAE

*Parastremma sadina* Eigenmann, 1912b:20.

Paratypes
USNM 79225 (3, 74.8-80.8 mm) Colombia, Istmina.

Remarks: Received from CM, presumably formerly CM 4813a-e, in part; collected by C.H. Eigenmann, 18-20 Mar 1912.

CHARACIDAE

*Parodon dariensis* Meek and Hildebrand, 1913:83.

Paratype
USNM 78379 (1, 93.2 mm). Panama, Darien, Río Cupe, Citooro.

Remarks: According to USNM ledgers collected by S. Meek and S.F. Hildebrand, 25 Feb 1912.
**Parodon ecuadoriensis** Eigenmann and Henn in Eigenmann et al., 1914:12.
Paratypes
USNM 76974 (4, 24.8-28.7 mm). Ecuador, Vinces, river and forest pools; A. Henn.
Remarks: Received from IU, formerly IU 13103, in part; originally 5 specimens in lot, 1 specimen exchanged to MNJ; 1 specimen cleared and stained.
Paratype
USNM 120188 (1, 38.3 mm). Ecuador, Vinces, river and forest pools; A. Henn.
Remarks: Received from CAS, formerly IU 13103, in part.
Paratype
USNM 120194 (1, 32.5 mm). Ecuador, Rio Daule, Colimes; A. Henn.
Remarks: Received from CAS, formerly IU 13110, in part.

**Parodon guyanensis** Géry, 1959c:482.
Paratype
USNM 179761 (1, 46.3 mm). French Guiana, Haute-Mana, crique Deux-Branches, above St. Fini; Lelong, 25 Oct 1957.
Remarks: Collected with holotype; received from J.R. Géry.

**Parodon paraguayensis** Eigenmann in Eigenmann and Ogle, 1907:6.
Paratype
USNM 1641 (1, EXCHANGED). Paraguay; Capt. Page.
Remarks: Exchanged to MNJ Mar 1949; originally cited as “100 mm to end of lateral line.”
Paratypes
USNM 2108 (2, 97.9-102.9 mm). Paraguay; Capt. Page.
Remarks: Originally cited as “112 and 105 mm. to end of lateral line.”
Paratypes
USNM 120193 (3, 56.2-63.2 mm). Asuncion.
Remarks: Received from CAS, formerly IU 9952; complete collection information: Rio Paraguay, Asuncion; J.D. Anisits.

**Parodon piracicabae** Eigenmann in Eigenmann and Ogle, 1907:6.
Paratype
USNM 120192 (1, 95.8 mm). Piracicaba; von Ihering.
Remarks: Received from CAS, formerly IU 9292a, in part.

**Parodon terminalis** Eigenmann and Henn in Eigenmann et al., 1914:12.
Paratypes
USNM 76975 (2, 30.6-35.8 mm). Ecuador, Vinces, river and forest pools; A. Henn.
Remarks: Received from IU, presumably formerly IU 13014, in part.

**Petersius ansorgii** Boulenger, 1910:543.
Syntype
USNM 86614 (1, 45.4 mm). Angola, Bengo River at Cabiri; W.J. Ansorge.
Remarks: Received from BMNH, formerly BMNH 1910.11.28:86.

**Phenacogaster megalostictus** Eigenmann, 1909:28.
Paratypes
USNM 66276 (2, 38.2-51.2 mm). British Guiana [= Guyana], Tumatumari, lower Potaro River.
Remarks: Received from CM; presumably formerly CM 1057a-j, in part; collector C.H. Eigenmann, Sep 1908.
Paratype
USNM 66277 (1, 30.5 mm). British Guiana [= Guyana], Essequibo, Rockstone.
Remarks: Received from CM; presumably formerly CM 1062a-e; in part; collector C.H. Eigenmann, Sep 1908.

**Piabarchus torrenticola** Mahnert and Géry, 1988:3, figs. 2-8, pl. II.
Paratypes
USNM 290842 (4, 34.8-42.4 mm). Paraguay, Provincia Cordillera, Salto Pirareta; C. Dlouhy et al., 21 Mar 1985.
Remarks: Received from MHNG, formerly MHNG 2385.72, in part.

**Piabucina panamensis** Gill, 1876:336.
Syntype
USNM 16676 (1, 65.2). Panama, “stream emptying into Atlantic”; J.F. Bransford.
Syntype
USNM 16677 (1, 65.0 mm). Panama, Rio Frijoli; J.F. Bransford.
Remarks: Originally 2 specimens in lot; small specimen (“young” of Gill) reidentified as *Brachyrhaphis episcopi* and recataloged as USNM 116372.
Syntype
USNM 116372 (1, 32.4 mm). Panama, Rio Frijoli; J.F. Bransford.
Remarks: Originally USNM 16677, in part; this is evidently small specimen (“young” of Gill); reidentified as *Brachyrhaphis episcopi*.

**Lebiasinidae**
Poecilocharax bovalii Eigenmann, 1909:34.
Paratype
USNM 120430 (1, 23.4 mm). British Guiana [= Guyana], creek at Savannah Landing.
Remarks: Received from MCZ; formerly MCZ 29950, in part; originally CM 1137a-z or IU 11686, in part; collector C.H. Eigenmann, 1908.

Poecilurichthys Brevoortii Gill, 1858:417.
Syntypes
USNM 1113 (2, 63.5-66.1 mm). Trinidad, W.I. (West Indies), western portions.
Remarks: Received from T. Gill.

Paratype
USNM 272613 (1, 13.9 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, lagoon NE of airport at San Carlos de Río Negro (1°55'N, 67°02'W); R.P. Vari et al., 4 Dec 1984.
Paratypes
USNM 272614 (1, 14.0 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Chola where crossed by road from San Carlos de Río Negro to Solano (1°58'N, 67°00'W); R.P. Vari et al., 5 Dec 1984.
Paratypes
USNM 272615 (10, 11.4-13.6 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, small caño off Caño Urami, just upriver of Santa Lucía (1°17'N, 66°51'W); R.P. Vari et al., 6 Dec 1984.
Paratypes
USNM 272616 (2, 12.2-12.9 mm). Venezuela, Territorio Federal Amazonas, Departamento Ature, Río Plantanillal, where crossed by road from Puerto Ayacucho to Samariapo, 2 km S of Mirabel (5°25'N, 67°46'W) R.P. Vari et al., 2 Dec 1984.
Paratypes
USNM 272617 (3, 13.7-14.9 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Loro, where crossed by road from Sam Carlos de Río Negro to Solano (01°19'N, 66°58'W); R.P. Vari et al., 7 Dec 1984.
Paratypes
USNM 272619 (1229, 8.8-17.1 mm). Venezuela, Territorio Federal Amazonas, Departamento Río Negro, Caño Manu, tributary of Río Casiquiare ~250 m upstream from Solano (2°00'N, 66°47'W); R.P. Vari et al., 7 Dec 1984.
Remarks: Collected with holotype; 40 specimens cleared and stained.

Paratypes
USNM 278479 (36, 8.1-12.2 mm). Colombia, Departamento Amazonas, Quebrada Pajarito, tributary of Quebrada Bacada, tributary of Río Amazonas, NW of Leticia, -04°41'S, 69°57'W; T. Hongslo, 21 Jul 1976.
Remarks: Collected with holotype; 6 specimens cleared and stained.

Paratype
USNM 120427 (1, 34.5 mm). British Guiana [= Guyana], Lama Stop-off.
Remarks: Received from MCZ, originally CM 1043a-z or IU 11735, in part, and subsequently MCZ 30028, in part; collector C.H. Eigenmann, Sep 1908.
Paratypes
USNM 66268 (6, 27.9-34.8 mm). British Guiana [= Guyana], Lama Stop-off.
Remarks: Received from CM; presumably formerly CM 1043a-z, in part; collector C.H. Eigenmann, Sep 1908.
**Prodontocharax alleni** Böhlke, 1953:661.

Paratype

USNM 157566 (1, 34.9 mm). Peru, Río Ucayali, Cashiboya (−7°31’S, 74°55’W); W.R. Allen, 3–4 Aug 1920.

Remarks: Collected with holotype.

**Psectrogaster auratus** Gill, 1895:211.

Holotype

USNM 5878 (1, 108.1 mm). Bolivia.

Remarks: Information in the USNM ledgers indicates that the specimen was collected in the “Mamora R. Bolivia,” presumably the Río Mamoré, by Lt. Gibbon.

**Psectrogaster cisandinus** Allen in Eigenmann and Allen, 1942:290, pi. XIV: fig. 3.

Holotype

USNM 167834 (1, 121.5 mm). Iquitos; Morris, 1920.

Remarks: Specimen received from UKEN, through W.R. Allen; length cited by Allen as 146 mm, presumably total length; formerly IU 17859, in part; 2 other specimens originally in lot now cataloged as USNM 268199 and USNM 268200 (see below); locality is Peru, Loreto, Iquitos.

Paratype

USNM 167805 (1, 84.5 mm). Lago Cashiboya, Allen, Aug 1920.

Remarks: Specimen received from UKEN, through W.R. Allen; length originally cited as either 102 or 103 mm, presumably total length; originally IU 17851 in part; other specimen originally in lot is now cataloged as CAS 57144, holotype of *Lambeipiedra alleni* Fernández-Yépez; locality is Peru, Loreto, Lago Cashiboya; W.R. Allen.

Paratypes

USNM 167803 (2, 89.3–89.7 mm). Río Nanay, Iquitos; Morris, September 1920.

Remarks: Specimen received from UKEN, through W.R. Allen; lengths originally cited as 102 and 106 mm, presumably total length; originally IU 15837; complete locality is Peru, Loreto, Río Nanay, Iquitos; W.R. Allen.

Paratype

USNM 268199 (1, 89.9 mm). Iquitos; Morris, 1920.

Remarks: Specimen received from UKEN, through W.R. Allen; originally IU 17859, in part; 2 other specimens originally in lot now cataloged as USNM 167834 and USNM 268120; locality is Peru, Loreto, Iquitos; specimen reidentified as *Psectrogaster amazonica* (Eigenmann and Eigenmann) by Vari (1989b:49).

Paratype

USNM 268200 (1, 57.3 mm). Iquitos; Morris, 1920.

Remarks: Specimen received from UKEN, through W.R. Allen; length cited by Allen as 67 mm; originally IU 17859, in part; 2 other specimens originally in lot now cataloged as USNM 167834 and USNM 268199; locality is Peru, Loreto, Iquitos; specimen reidentified as *Curimata aspera* Günther by Vari (1989b:49).

**Psectrogaster rhomboides** Eigenmann and Eigenmann, 1889a:7.

Paralectotypes

USNM 120287 (4, 117.0–160.2 mm). Rio Putz; O. St. John.

Remarks: Received from MCZ, formerly MCZ 20303, in part; complete locality information: Brazil, Piauí, Río Poti (tributary of Río Parnaiba) at Teresina; lectotype designated by Vari (1989c:36).

**Pseuochalceus kyburzi** Schultz, 1966:27, 2 text figs.

Holotype

USNM 231738 (1, 77.0 mm). Colombia, Río Cauca Valley, Río Calima; H. Axelrod, Nov 1964.

Remarks: Formerly cataloged as USNM 257403-F27.

Paratype

USNM 171751 (1, 35.8 mm). Colombia, Río Anchicaya (Pacific drainage); W.A. Kyburz and H.H. Hutchins.

Paratype

USNM 231739 (1, 40.5 mm). Colombia, Río Dagua, near Buenaventura (Pacific drainage); W.A. Kyburz, Jun and Oct 1964.

Remarks: Formerly cataloged as USNM 258173-F1.

**Pseuochirodon terrabae** Bussing, 1967:212, fig. 1.

Paratypes

USNM 213486 (6, 28.3–44.9 mm). Costa Rica, San José, Río Pacuar and tributary, 4.5 km SW of San Isidro del General; W.A. Bussing and S. Jiménez C., 28 Dec 1961.

Remarks: 1 specimen cleared and stained.


Holotype

USNM 287745 (1, 109.1 mm). Ecuador, Esmeraldas, Esteros La Bocana del Cupa, 100 m below Puerto Cupa, Río Esmeraldas basin (~0°26’N, 79°26’W); R. Barriga, Cerón and J. Caicedo, 11 Mar 1985.

Paratypes

USNM 291690 (6, 33.9–98.6 mm). Ecuador, Esmeraldas, Esteros La Bocana del Cupa, 100 m below Puerto Cupa, Río Esmeraldas basin (~0°26’N, 79°26’W); R. Barriga, Cerón and J. Caicedo, 11 Mar 1985.

Remarks: Collected with holotype; 1 specimen cleared and stained.
_Pterobrycon myrnae_ Bussing, 1974:138, figs. 1, 2.

Paratypes

USNM 210988 (2, 7.5-35.5 mm). Costa Rica, Puntarenas Province, Pacific coast, tributary (20 m elevation) of Río Serpe at Interamerican Highway, 1 km SE of Venecia and 300 m SE of Río Salamá Nuevo, 1 Mar 1973.

Remarks: 1 specimen severed; collector W. Bussing; 3 specimens originally in lot, 1 specimen recataloged as USNM 236068.

Paratypes

USNM 211458 (6, 27.8-35.9 mm). Costa Rica, Puntarenas Province, Pacific coast, Quebrada Aguabuena (30 m elevation), 1 km upstream from Tropical Science Center near Rincón, 28 Feb 1967.


Paratypes

USNM 211459 (40, 24.1-35.3 mm). Costa Rica, Puntarenas Province, Pacific coast, Quebrada Banegas (10 m elevation), 0.8 km upstream from Pacific road, 3 airkm SW of Rincón, 1 Mar 1968.

Remarks: Collector N. Scott; 43 specimens originally in lot, 3 specimens recataloged as USNM 236066.

Paratypes


Remarks: Collector S. Stearns; 3 specimens originally in lot, 1 specimen recataloged as USNM 236067.

Paratypes

USNM 211461 (5, 24.2-27.1 mm). Costa Rica, Puntarenas Province, Pacific coast, flooded gravel pit (20 m elevation) in Río Ríjito near Charcos, 2 airkm S of Rincón airfield; 7 Aug 1967.

Remarks: Collector T. Lodge.

Paratypes

USNM 211462 (10, 24.8-33.0 mm) Costa Rica, Puntarenas Province, Pacific coast, tributary (20 m elevation) of Río Serpe, 2 km SE of Palmar Sur at Interamerican Highway; 6 Jan 1967.

Remarks: Collector W. Bussing.

Paratypes

USNM 236066 (2, 29.4-34.7 mm). Costa Rica, Puntarenas Province, Pacific coast, Quebrada Banegas (10 m elevation), 0.8 km upstream from Pacific road, 3 airkm SW of Rincón, 1 Mar 1968.

Remarks: Collector N. Scott; formerly USNM 211459, in part; 2 specimens cleared and stained; 1 specimen unaccounted for.

Paratype

USNM 236067 (1, 33.1 mm). Costa Rica, Puntarenas Province, Pacific coast, Banegas swamp (10 m elevation), near Quebrada Banegas, 3 airkm SW of Rincón, 14 Aug 1973.

Remarks: Collector S. Stearns; formerly USNM 210988, in part; specimen cleared and stained; 3 specimens originally in lot, 2 specimens unaccounted for.

Paratype

USNM 236068 (1, 27.6 mm). Costa Rica, Puntarenas Province, Pacific coast, tributary (20 m elevation) of Río Serpe at Interamerican Highway, 1 km SE of Venecia and 300 m SE of Río Salamá Nuevo, 1 Mar 1973.

Remarks: Collector W. and M. Bussing; formerly USNM 210988, in part; specimen cleared and stained.

***CHARACIDAE***

_Pterodiscus levis_ Eigenmann, 1909:12.

Holotype

USNM 34454 (1, 35.4 mm). Para; J.C. Brevoort.

Remarks: USNM ledger cites locality as Brazil, Para; original cited as 47 mm (? total length); paratypes originally in lot recataloged as USNM 306564.

Paratypes

USNM 306564 (2, 29.1-34.6 mm). Para; J.C. Brevoort.

Remarks: USNM ledger cites locality as Brazil, Para; formerly USNM 34454, in part; 3 USNM "cotypes" (= paratypes) cited in original description, 1 specimen unaccounted for; originally cited as 32 to 47 mm, presumably total length.

***GASTEROPELECIDAE***

_Pygocentrus altus_ Gill, 1871:93.

Holotype

USNM 21432 (1, 122.7 mm). Peru and Ecuador [= Ecuador], Maranon or upper Amazon and Napo Rivers; J. Orton.

***CHARACIDAE***

_Pyrrhulina guttata_ Steindachner, 1875a: 10, pi. II: fig. 6.

Syntypes

USNM 120282 (4, 45.0-70.0 mm). Obidos.

Remarks: Received from MCZ, formerly MCZ 6429, in part; complete collection information: Brazil, Para, Rio Amazonas at Obidos; Thayer Expedition, 1865.

***LEBIASINIDAE***

_Pyrrhulina maxima_ Eigenmann and Eigenmann, 1889c:111.

Possible Holotype

USNM 120283 (3, 29.8-39.0 mm). Tabatinga; Bourget.

Remarks: Eigenmann and Eigenmann based their species on "Type No. 6343; one specimen. .08 m. to base of caudal." The 3 specimens in USNM 120283 were originally part of MCZ 6343, which now consists of 11 specimens, 28.6-41.7 mm SL (M. Weitzman, pers. comm.). Thus none of the specimens known to have been part of MCZ 6343 approach the length cited by the Eigenmanns, even if we assume that their measurement represents total rather than standard length. It is impossible at this time to determine which of the
specimens in USNM 120283 and MCZ 6343 may be the holotype. Complete collection information: Brazil, Amazonas, Rio Solimões at Tabatinga [= Sapurara] and environs; D. Bourget, Nov 1865.

**LEBIASINIDAE**

*Pyrrhulina rachoviana* Myers, 1926a:441.

**Syntypes**

USNM 92970 (2, 30.6–32.7 mm). Rosario.

**Remarks**: Received from G.S. Myers. According to letter from Myers accompanying accession (acc. no. 124667), these species are "Aquarium specimens bred from stock collected at Rosario, Argentina. The description was based on these two, male and female."

*Rachoviscus crassiceps* Myers, 1926b:1.

**Lectotype**

USNM 92971 (1, 32.7 mm). Collected for the aquarium trade and sent to Myers by A. Rackow of Germany. Supposedly collected in Brazil, neighborhood of Rio de Janeiro.

**Remarks**: Designated as lectotype by Weitzman and Cruz (1981:1009). Weitzman and Cruz (1980:1008-1009) suggest that the originally proposed type locality for the species is incorrect. Those authors note that the species is only known from near Guaratuba, a small town ~50 km S of Paranaguá, state of Paraná. Those localities are a considerable distance to the south of Rio de Janeiro. At the time that the species was described, the German aquarium import trade was receiving fishes from that area of southern Brazil, and Weitzman and Cruz suggest that the fish may have been collected in the region of Paranaguá and transhipped to Germany through Rio de Janeiro.

**Paralectotypes**

USNM 94216 (3, 17.2–30.7 mm).

**Remarks**: No locality information, received from New York Aquarium Society. Myers (1926b) recorded this lot, #47, as syntypes; not noted by Weitzman and Cruz (1981). See also "Remarks" under Lectotype above.

**CHARACIDAE**

*Rachoviscus gracileps* Weitzman and Cruz, 1980:1003, figs. 1, 2.

**Paratypes**

USNM 220355 (4, 35.1–47.6 mm). Brazil, state of Bahia, collected from one of three small creeks ~1 km N of Prado and ~500 m from Atlantic Ocean (39°14′W, 17°19′S); C.A.G. da Cruz, 18 Oct 1977.

**Remarks**: Only 3 specimens cited in original description; 1 specimen is "young of specimens collected with holotype."

**CHARACIDAE**

*Rhoeoides Myersii* Gill, 1871:92.

**Holotype**

USNM 21426 (1, 123.0 mm). Peru and Ecuador [= Ecuador], Maranon or upper Amazon and Napo rivers; J. Orton.

**Rhinobrycon negrensis** Myers, 1944:589, text fig.

**Paratypes**

USNM 121370 (1, 62.6 mm). Venezuela, Maracaibo basin, Rio Palmar at the bridge, 70 km SW of Maracaibo; L.P. Schultz, 6 Mar 1942.

**Paratypes**

USNM 121371 (90, 19.3–74.2 mm). Venezuela, Maracaibo basin, Ciénaga del Guanavana, ~10 km N of Sianaimaca; L.P. Schultz, 11 Mar 1942.

**Remarks**: 91 specimens cited in original description, 1 specimen unaccounted for.

**Paratypes**

USNM 121372 (14, 24.9–64.3 mm). Venezuela, Maracaibo basin, Rio Palmar at the bridge, 70 km SW of Maracaibo; L.P. Schultz, 6 Mar 1942.

**Remarks**: Collected with holotype.

**Paratypes**

USNM 121373 (2, 38.3–51.7 mm). Venezuela, Maracaibo basin, Rio San Pedro at bridge, Motatán system; L.P. Schultz, 8 Mar 1942.

**Remarks**: 24 specimens cited in original description, 1 specimen unaccounted for.

**Paratypes**

USNM 121374 (23, 11.5–45.8 mm). Venezuela, Maracaibo basin, pond tributary to Rio Gé, near Rosario; L.P. Schultz, 8 Mar 1942.

**Remarks**: 24 specimens cited in original description; 6 specimens exchanged to ZMA Mar 1952.

**Paratypes**

USNM 121375 (106, 28.7–49.5 mm). Venezuela, Maracaibo basin, Río Agua Caliente, 2–3 km above Lago Maracaibo; L.P. Schultz, 1 May 1942.

**Remarks**: 112 specimens cited in original description; 6 specimens exchanged to ZMA Mar 1952.

**Paratypes**

USNM 121376 (2, 15.5–52.9 mm). Venezuela, Maracaibo basin, Estado de Zulia, Rio San Juan, 12 km S of Rosario; L.P. Schultz, 26 Feb 1942.

**Paratypes**

USNM 121377 (26, 36.3–58.7 mm). Venezuela, Maracaibo basin, Estado de Zulia, Río Apon ~35 km S of Rosario; L.P. Schultz, 26 Feb 1942.

**Paratypes**

Remarks: Lot exchanged to UMMZ Jan 1948; originally cited as 5 specimens, 27.0–55.0 mm SL.

Paratypes
USNM 121379 (149, 18.4–66.7 mm). Venezuela, Maracaibo basin, Lago Tulé, tributary of Río Socuy, ~75 km W of Maracaibo; L.P. Schultz, 1 Mar 1942.
Remarks: 155 specimens cited in original description; 6 specimens exchanged to J. Géry, 1 Jan 1960.

Paratype
USNM 121380 (1, 64.1 mm). Venezuela, Maracaibo basin, Río Palmar near Totuma, ~100 km SW of Maracaibo; L.P. Schultz, 21 Feb 1942.

Paratypes
USNM 121381 (21, 18.6–57.6 mm). Venezuela, Maracaibo basin, Río San Juan near bridge S of Mene Grande, Motatán system; L.P. Schultz, 17–20 Mar 1942.

Paratypes
USNM 121382 (20, 23.3–47.6 mm). Venezuela, Maracaibo basin, cafio 3 km W of Sinamaica; L.P. Schultz, 11 Mar 1942.

Remarks: 140 specimens cited in original description; 5 specimens exchanged to MCZ Jul 51.

Paratypes
USNM 121383 (135, 26.3–75.1 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Remarks: Information in jar indicates that specimens were collected by S.F. Hildebrand and F.J. Foster, 23–25 Jan 1924; Hildebrand specifically cited only holotype, but multiple specimens used in original description; originally 6 specimens in lot, 1 specimen exchanged to "El Salvador," 1 specimen exchanged to FMNH.

Paratypes
USNM 121384 (71, 25.9–74.7 mm). Venezuela, Maracaibo basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 1 Nov 1942.

Paratypes
USNM 121385 (21, 36.1–89.5 mm). Panama, Río Cardeñas, Corozal.

Remarks: 22 specimens originally cited in USNM ledgers; 1 specimen unaccounted for.

Paratypes
USNM 121386 (1, 69.5 mm). El Salvador, Lake [Lago] Guija and outlet.

Remarks: Information in jar indicates that specimens were collected by S.F. Hildebrand and F.J. Foster, 23–25 Jan 1924; Hildebrand specifically cited only holotype, but multiple specimens used in original description; originally 6 specimens in lot, 1 specimen exchanged to "El Salvador," 1 specimen exchanged to FMNH.

Paratypes

Remarks: Information in jar indicates that specimens were collected by S.F. Hildebrand and S.J. Foster, 26 Jan 1924 at Metapan on Lago Metapan; Hildebrand specifically cited only holotype, but multiple specimens used in original description.

CHARACIDAE
Saccoderma melanostigma Schultz, 1944:315, figs. 40, 41.

Holotype
USNM 121519 (1, 26.3 mm). Venezuela, Maracaibo basin, Río San Juan near bridge S of Mene Grande, Motatán system; L.P. Schultz, 17–20 Mar 1942.

Paratypes
USNM 121520 (5, 21.4–23.7 mm). Venezuela, Maracaibo basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 17–20 Mar 1942.

Paratypes
USNM 121521 (44, 16.5–26.7 mm). Venezuela, Maracaibo basin, Río Socuy, 3 km above mouth; L.P. Schultz, 17–20 Mar 1942.

Paratypes

Paratypes
USNM 121523 (3, 18.4–24.2 mm). Venezuela, Maracaibo basin, Lago Tulé ~75 km W of Maracaibo; L.P. Schultz, 1 Mar 1942.

Paratypes
USNM 121524 (3, 23.0–27.9 mm). Venezuela, Maracaibo basin, cafio 3 km W of Sinamaica; L.P. Schultz, 17–20 Mar 1942.

Paratypes
Remarks: 23 specimens cited in original description; 4 specimens exchanged to MCZ Jul 1951.

Paratypes
USNM 121526 (7, 15.9–20.3 mm). Venezuela, Maracaibo basin, Río Machango at bridge, S of Lagunillas; L.P. Schultz, 16 Mar 1942.

Paratypes
USNM 121527 (4, 18.6–23.2 mm). Venezuela, Maracaibo basin, Río Apon, ~35 km S of Rosario; L.P. Schultz, 26 Feb 1942.

Paratypes
USNM 121528 (98, 18.2–25.1 mm). Venezuela, Maracaibo basin, Río Negro below mouth of Río Yasa; L.P. Schultz, 2 Mar 1942.

Remarks: 108 specimens cited in original description; 6 specimens exchanged to SU 25 Sep 1951; 4 specimens exchanged to J. Géry, 4 Jan 1960, subsequently transferred to MHNG.

Paratypes
USNM 121529 (9, 20.2–25.2 mm). Venezuela, Maracaibo basin, Río Palmar at bridge, 70 km SW of Maracaibo; L.P. Schultz, 6 Mar 1942.

Paratypes
USNM 121530 (4, EXCHANGED). Venezuela, Maracaibo basin, Río Socuy, 3 km above its mouth; L.P. Schultz, 24 Feb 1942.

Remarks: 15 specimens cited in original description, 5 specimens exchanged to UMMZ 1 Jun 1948, 2 specimens exchanged to MCZ Jul 1951.
66°57'W); R.P. Vari et al., 7 Dec 1984.
Remarks: Collected with holotype; 3 specimens cleared and stained.
Paratypes
USNM 270259 (5, 24.9-31.8 mm). Venezuela, Territorio Federal Amazonas, Departamento Rio Negro, drying lagoon NE of airport at San Carlos de Rio Negro (−01°55'N, 67°02'W); R.P. Vari et al., 4 Dec 1984.

**CHARACIDAE**

*Serrasalmo brandii* Lütken, 1875:137.

Syntype
USNM 44964 (1, 158.1 mm). Brazil, Minas Gerais, Lagoa Santa; J. Reinhardt.
Remarks: Received from C. Lütken.

**CHARACIDAE**

*Spintherobolus brocace* Myers, 1925:143, text fig., pl. XX.

Paratypes
USNM 92959 (2, 29.0-29.2 mm). Brazil, hills behind Rio de Janeiro; R. Brocca.
Remarks: Received from G.S. Myers; 3 specimens originally cited in USNM ledgers, 1 specimen unaccounted for.

**CHARACIDAE**

*Steindachnerina gracilis* Vari and Vari, 1989:474, fig. 5.

Paratype
USNM 191632 (1, ~73.4 mm). Brazil, Goiás, Rio Araguaia, Aruanã; H.A. Axelrod, 1960.

Paratypes
USNM 293034 (6, 57.4-65.4 mm). Brazil, Pará, Rio Tocantins, lagoons along margin of river near Tucuruí (3°42'S, 49°27'W); Expedição Permanente da Amazônia, 14 Sep 1970.
Remarks: 2 specimens cleared and stained.

Paratype
USNM 293035 (1, 67.2 mm). Brazil, Goiás, Rio Araguaia, Aruanã; Excurso do Departamento de Zoologia (now MZUSP), 15-19 Sep 1966.
Remarks: Collected with holotype.

**CHARACIDAE**

*Steindachnerina planiventris* Vari and Vari, 1989:479, figs. 8-11.

Paratypes
USNM 267986 (18, 56.3-78.8 mm). Brazil, Rondônia, Rio Machado, near mouth (−8°03'S, 62°53'W); M. Goulding, 4 Sep 1980.
Remarks: Collected with holotype.

Paratypes
USNM 267987 (6, 56.5-65.1 mm). Brazil, Rondônia, Rio Machado, Santo Antonio; M. Goulding, 3 Sep 1980.
Remarks: 2 specimens cleared and stained.

Paratypes
USNM 267989 (18, 46.2-67.8 mm). Brazil, Rondônia, Rio Machado, Jauari, channel beach; M. Goulding, 5 Sep 1980.

**CURIMATIDAE**

*Steindachnerina pupula* Vari, 1991:77, figs. 54-57.

Paratypes
USNM 235462 (2, 48.3-53.5 mm). Venezuela, Territorio Federal Delta Amacuro, lagoon on N side of Rio Orinoco, opposite Isla Tres Caños, W of Caño Araguaito (8°40'30"N, 61°58'30"W); E. Marsh et al., 13 Nov 1979.

Paratypes
USNM 258008 (2, 97.8-99.3 mm). Venezuela, Guarico, Laguna Los Guáimicos, Fundo Pecuario Masaguaraal (−8°34'N, 67°35'W); R.P. Vari et al., 19 Jan 1983.

Paratypes
USNM 258081 (3, 52.5-56.0 mm). Venezuela, Guarico, Fundo Pecuario Masaguaraal, Rio Coracol, where crossed by bridge (−8°34'N, 67°30'W); R.P. Vari et al., 19 Jan 1983.

Paratype
USNM 302170 (1, 60.7 mm). Venezuela, Guarico, small caño on N shore of Rio Orinoco, draining into Rio Orinoco ~1 km upstream of mouth of Rio Zuata.
Remarks: Collected with holotype.

**CURIMATIDAE**

*Steindachnerina quasimodoi* Vari and Vari, 1989:476, figs. 6-10.

Holotype
USNM 293041 (1, 88.9 mm). Peru, Río Javari, near Petrópolis; H. Ortega, 2 Oct 1982.

Paratypes
USNM 293040 (3, 34.3-61.5 mm). Brazil, Amazonas, Rio Javari system, opposite Colonia Angamos, Peru; S. Kullander et al., 5 Aug 1984.

Paratypes
USNM 293042 (7, 49.7-122.6 mm). Peru, Río Javari, near Petrópolis; H. Ortega, 2 Oct 1982.
Remarks: Collected with holotype; 2 specimens cleared and stained.

**CURIMATIDAE**


Paratypes
USNM 300000 (10, 57.6-92.7 mm). Surinam, Brokopondo, Morawijne or Gran Creek, 63 km S of Afobaka; H. Nijssen, 20 Oct 1966.
Remarks: Collected with holotype.

**CURIMATIDAE**

*Tetragonopterus nanus* Lütken, 1875:133.

Syntypes
USNM 44958 (4, 13.5-17.2 mm). Brazil, Minas Gerais, Lagoa Santa; J. Reinhardt.
Remarks: Received from C. Lütken.

**CHARACIDAE**
**Thayeria ifati** Géry, 1959b:128, figs. 1–3.
Paratypes
USNM 179762 (9, 15.9–23.2, mm). French Guiana, Litani, upper Maroni.
Remarks: Received from J. Géry.

**Thayeria obliquus** Eigenmann, 1908:94.
Syntypes
USNM 120295 (6, 45.8–50.1 mm). Obidos.
Remarks: Received from MCZ, formerly from MCZ 20841, in part; complete collection information: Brazil, Pará, Rio Amazonas at Obidos; Col. Bento, Nov 1865.

**Tylobronchus maculosus** Eigenmann, 1912a:272, pl. XXXV: fig. 3.
Paratypes
USNM 66290 (2, 45.9–81.4 mm). British Guiana [= Guyana], Tumatumari.
Remarks: Received from CM, presumably previously CM 1920a–e, in part; collector C.H. Eigenmann; Sep 1908.

**Xenagoniates bondi** Myers, 1942:90, fig. 1.
Paratype
USNM 130641 (1, 36.3 mm). Venezuela, Río Amana, 6 km E of Santa Barbara and 35 km W of Maturin; F.F. Bond, 16 Mar 1939.
Remarks: Exchanged from SU, formerly SU 36487, in part.

**Xenurobrycon heterodon** Weitzman and Fink, 1985:88, figs. 5, 12, 30, 34, 55, 65.
Paratypes
USNM 219389 (2, both 17.0 mm). Ecuador, Pastaza, Río Bobonaza at Sarayacu (1°16'S, 78°31'W); G.R. Smith and J.D. Lynch, 12–22 Jul 1968.

Paratypes
USNM 219390 (2, 16.4–16.7 mm). Ecuador, Pastaza, Río Bobonaza at Sarayacu (1°16'S, 78°31'W); G.R. Smith and J.D. Lynch, 12–22 Jul 1968.
Remarks: Collected with USNM 219389; specimens cleared and stained.

**Xenurobrycon pteropus** Weitzman and Fink, 1985:85, fig. 4.
Paratype
USNM 232921 (1, 13.8 mm). Brazil, Amazonas, an igarapé in Fonte Boa, ~2°30'S, 67°2'E; Expedición Permanente de Amazonia, 25 Oct 1968.
Remarks: Collected with holotype; specimen cleared and stained.
## List of Taxa

Arranged Alphabetically by Family, Genus, Species, and Subspecies

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