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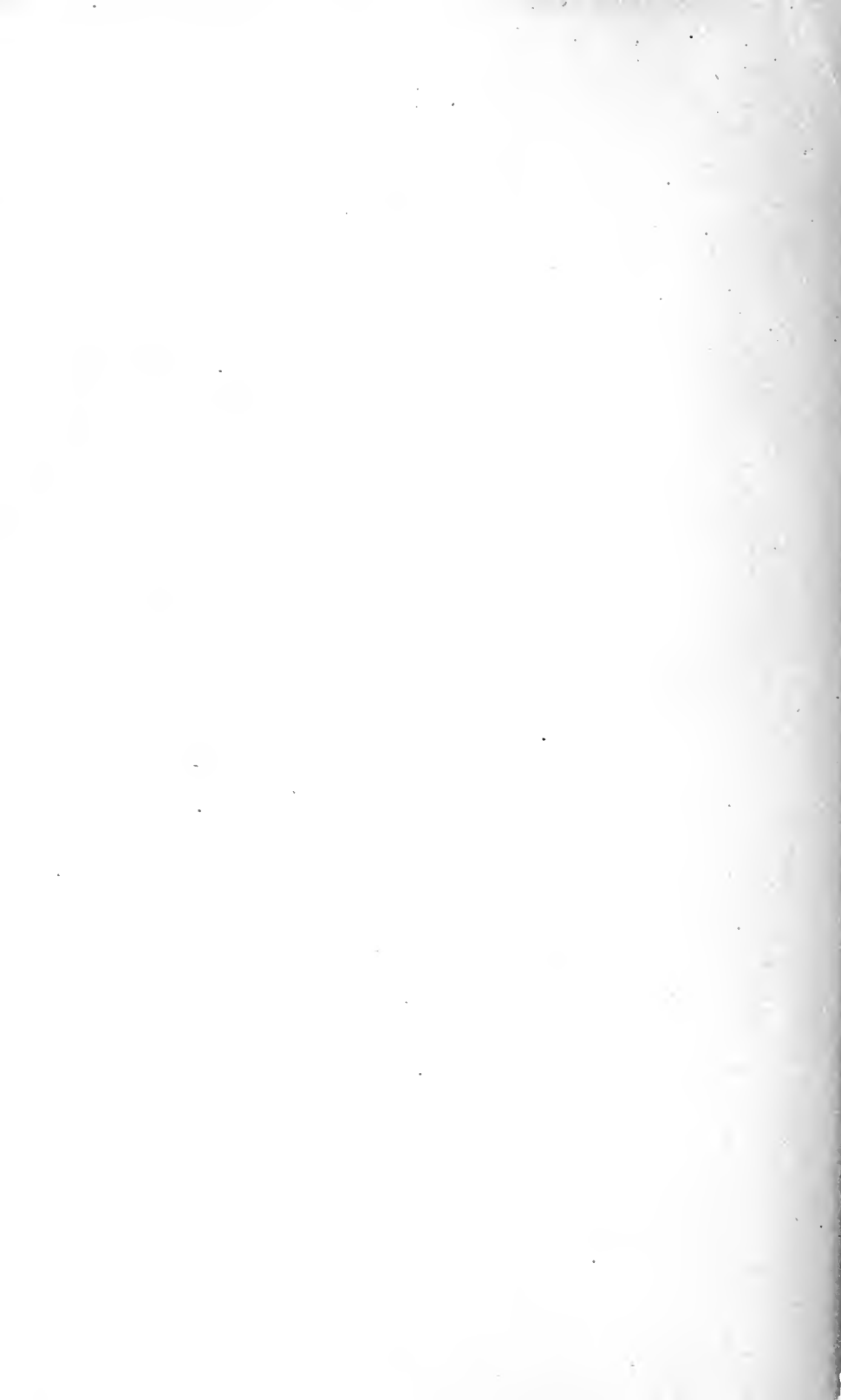
CATALOGUE OF  
TYPE SPECIMENS OF FISHES  
IN  
CHICAGO NATURAL HISTORY MUSEUM

1947

MARION GREY

FIELDIANA: ZOOLOGY  
VOLUME 32, NUMBER 3  
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*Associate, Division of Fishes*

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## INTRODUCTION

The list recorded in this catalogue comprises all types, cotypes, and paratypes of fishes in the reference collection of Chicago Natural History Museum. About one-third of these types came from the collections of Central American fresh-water fishes described by Meek, and the Panama fishes described by Meek and Hildebrand. The types of the fresh-water species in the Panama collection are deposited in Chicago Natural History Museum, and the types of marine forms are in the United States National Museum. Paratypes of both marine and fresh-water species were divided equally between the two institutions.

A few type specimens in Dr. Meek's material either cannot be found or cannot be determined, and some of the paratypes are accompanied by contradictory labels. A careful attempt has been made to straighten out the Museum records, but an apology is advanced here for errors of omission or commission.

The Museum collection also contains a scale from the type specimen of *Latimeria chalumnae* Smith, recently acquired through the kindness of Dr. J. L. B. Smith of Rhodes University, Grahamstown, South Africa. The scale comes from the lower side of the caudal peduncle between the anal base and the anterior principal ventral caudal rays.

Species are listed in alphabetical order. The name of each species is recorded as it was given in the original description, followed by a reference to the place and date of its publication. The current name is preceded by the sign of equality (=). The Chicago Natural History Museum catalogue number of the type specimen is followed by the locality. The data for paratypes and the number contained in the Museum collection are also given. In the case of defective specimens the condition has been stated, but no mention has been made of broken caudal fin tips. A number of species not previously figured are illustrated in the present paper. Lines under figures represent one inch. The drawings are the work of Peggy Collings Brown.

Thanks are due to the following people: Mr. Karl P. Schmidt, without whose encouragement this list would never have been

completed; Mr. Alfred C. Weed, who segregated most of the types and paratypes during his twenty-one years as Curator of the Division of Fishes, and who has been kind enough to read the manuscript and to offer suggestions; Dr. S. F. Hildebrand, who has given both material assistance and generous advice; Mr. Loren P. Woods, who has made helpful suggestions; and Mr. Isaac Ginsburg, Dr. Reeve M. Bailey, Mr. John T. Nichols, Dr. Leonard P. Schultz, Dr. W. M. Chapman, Dr. George S. Myers, Dr. A. W. Herre, Dr. Carl L. Hubbs, and Dr. E. S. Herald, who have supplied information on various specimens. I also wish to express my gratitude to Miss Pearl Sonoda and Mrs. Peggy Collings Brown for help with innumerable routine details.

# LIST OF TYPE SPECIMENS

## Arranged Alphabetically

### **Acanthicus canensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 80, 1913.

= *Leptoancistrus canensis* Meek and Hildebrand

Type: No. 7581. Panama: Rio Cana, Cana, Darien.

Paratypes: 30. Panama: Rio Cana (23), Rio Satigante (7).

### **Acanthocephalus bifurcus** Eigenmann

Ann. Carnegie Mus., 6, p. 52, 1909.

= *Micropoecilia bifurca* Eigenmann

Paratypes: 2. British Guiana: Demerara River, Christianburg..

### **Acanthocephalus melanzonus** Eigenmann

Ann. Carnegie Mus., 6, p. 51, 1909.

= *Micropoecilia melanzona* Eigenmann

Paratype: British Guiana: Georgetown Trenches.

### **Acanthocharax microlepis** Eigenmann

Mem. Carnegie Mus., 5, p. 405, pl. 61, 1912.

Paratype: British Guiana: Tumatumari, lower Potaro River.

### **Acheilognathus barbatus** Nichols

Amer. Mus. Nov., No. 214, p. 6, fig. 6, 1926.

Paratype: China: Ningkwo, Anhwei.

### **Acheilognathus gracilis** Nichols

Amer. Mus. Nov., No. 214, p. 5, fig. 5, 1926.

Paratype: China: Tungting Lake, Hunan.

### **Achirus fluviatilis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 1002, pl. 102, 1928.

Paratypes: 41. Panama: Rio Juan Diaz (12), Rio Chame (1), Rio Culebra (2), Rio Chorrera (9), Rio Mamoni (17).

Rio Chame is not mentioned in the published list of localities. In the original description Meek and Hildebrand stated that the collection contained

only 25 specimens of this species, yet these 41 specimens are entered in our catalogue as paratypes.

**Aequidens potaroensis** Eigenmann

Mem. Carnegie Mus., 5, p. 490, pl. 66, 1912.

Paratypes: 2. British Guiana: Holmia.

**Agoniates anchovia** Eigenmann

Indiana Univ. Stud., 19, p. 46, 1914.

Paratype: Brazil: Villa Bella.

**Agosia adobe** Jordan and Evermann

Bull. U. S. Fish Comm., 9, p. 36, 1889 (1891).

Cotypes: 3. Utah: Sevier River, near Juab.

**Agosia yarrowi** Jordan and Evermann

Bull. U. S. Fish Comm., 9, p. 28, 1889 (1891).

Cotypes: 21. Colorado: Tomichi Creek, Gunnison.

**Alburnops illecebrosus** Girard

Proc. Acad. Nat. Sci. Phila., 1856, p. 194, 1857.

= *Notropis illecebrosus* Girard

Cotype: Arkansas: Arkansas River, Fort Smith.

**Alepideleotris tigris** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 413, 1935.

= *Eleotrica cableae* Ginsburg

Type: No. 17348. Galapagos: South Seymour Island.

**Alepidomus.** See *Atherina*.

**Alestes langi** Fowler

Ann. Transvaal Mus., 16, p. 258, fig. 4, 1935.

Paratypes: 3. Africa: Thamalakane River, Kalahari Desert.

**Alestes thamalakanensis** Fowler

Ann. Transvaal Mus., 16, p. 257, fig. 3, 1935.

Paratypes: 5. Africa: Thamalakane River, Kalahari Desert.

**Alfaro acutiventralis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 72, 1912.

= *Alfaro cultratus* Regan

Type: No. 7679. Costa Rica: Guapilis.

Allotype and paratypes: 36. Costa Rica: Guapilis.

The published type number (7579) was a misprint. There are 64 additional Costa Rican specimens (Parismina, 38; La Junta, 11; Virginia River, 15) collected by Meek within a few days of the date the Guapilis specimens were secured. Although Guapilis was the only locality mentioned in the original description, these specimens may have been part of the type lot.

**Algansea rubescens** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 78, pl. 17, 1902.

Type: No. 3653. Mexico: Rio Santiago, Ocotlán, Jalisco.

Paratypes: 8. Same locality.

**Allodontium.** See **Heterandria.**

**Allogambusia.** See **Gambusia.**

**Alosa ohiensis** Evermann

Rept. U. S. Fish Comm., 1901, p. 277, fig. 1, 1902.

Paratype: Kentucky: Ohio River, Louisville.

**Alticus novemmaculosus** Snyder

Proc. U. S. Nat. Mus., 35, p. 107, 1908.

Paratypes: 128. Luchu [Riu Kiu] Islands: Nafa [Naha], Okinawa.

Received as paratypes from Stanford University.

**Ambassis lafa** Jordan and Seale

Bull. Bur. Fish., 25, p. 253, fig. 46, 1905 (1906).

Paratypes: 16. Samoa: Apia.

**Ambassis vaivasensis** Jordan and Seale

Bull. Bur. Fish., 25, p. 254, fig. 47, 1905 (1906).

Paratypes: 3. Samoa: Vaivase River, Apia.

**Amblygobius myersi** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 426, 1935.

Type: No. 17352. Solomon Islands: Hathorn Sound, New Georgia Island.

**Amiurus australis** Meek. Figure 31.

Field Mus. Nat. Hist., Zool. Ser., 5, p. 13, 1904.

= *Ameiurus australis* Meek

Type: No. 4474. Mexico: Forlón, Tamaulipas.

**Amiurus mexicanus** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 15, 1904.

= *Ameiurus mexicanus* Meek

Type: No. 4507. Mexico: Rascón, San Luis Potosí.

Paratypes: 3. Mexico, San Luis Potosí: Rascón (1), Rio Verde (2).

Skin of type slightly torn.

**Anchoa.** See also **Anchovia**, **Anchoviella**, and **Stolephorus**.**Anchoa lamprotaenia** Hildebrand

Bull. Bingham Ocean. Coll., 8, p. 62, fig. 23, 1943.

Paratypes: 86. Florida: Biscayne Bay (16), Key West (12), Bush Keys, Tortugas (6). British Honduras: Belize (24). Panama: Fox Bay, Colón (22), Porto Bello (1). Canal Zone: Fort Sherman (5).

About half the specimens in bad condition.

**Anchoa mitchilli diaphana** Hildebrand

Bull. Bingham Ocean. Coll., 8, p. 91, fig. 38, 1943.

Paratypes: 10. Louisiana: Grande Isle.

**Anchovia arenicola** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 201, pl. 13, 1923.

= *Anchoa arenicola* Meek and Hildebrand

Paratypes: 122. Panama: Taboga Island (81), Balboa (38), Naos Island (2), Chame Point (1).

Scales missing on many specimens.

**Anchovia brevisrostra** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 198, pl. 12, 1923.

= *Anchoviella balboae* Jordan and Seale

Paratypes: 10. Canal Zone: Balboa Bay, Balboa.

**Anchovia eigenmannia** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 205, pl. 14, 1923.

= *Anchoa eigenmannia* Meek and Hildebrand

Paratypes: 7. Panama: Taboga Island.



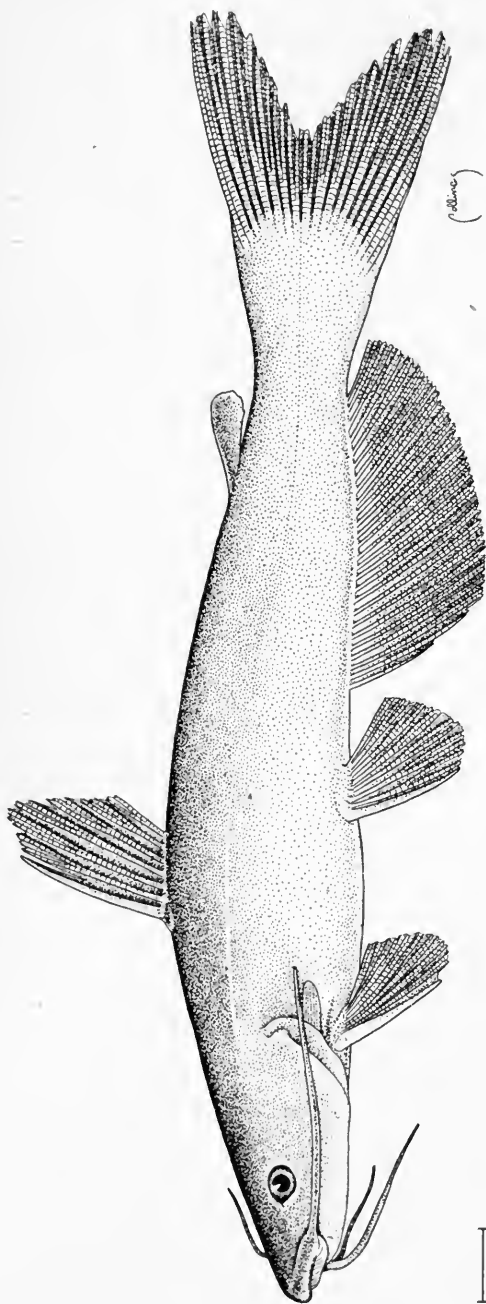


FIG. 31. *Ameiurus australis* Meek, type.

**Anchovia elongata** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 198, pl. 12, 1923.

= *Anchoviella elongata* Meek and Hildebrand

Paratypes: 3. Canal Zone: Mindi Cut.

Scales of specimens mostly missing; two specimens in poor condition.

**Anchovia parva** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 202, pl. 10, 1923.

= *Anchoa parva* Meek and Hildebrand

Paratypes: 24. Panama: Porto Bello (4), Fox Bay, Colón (20).

**Anchoviella.** See also **Anchovia.**

**Anchoviella helleri** Hubbs

Proc. Biol. Soc. Wash., 34, p. 47, 1921.

= *Anchoa helleri* Hubbs

Type: No. 3332. Lower California: San Felipe Bay.

Paratypes: 2. Same locality.

**Ancistrus lithurgicus** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 411, 1910 (nomen nudum);

Mem. Carnegie Mus., 5, p. 241, pl. 25, 1912.

Paratype: British Guiana: Crab Falls, Essequibo River.

**Ancistrus planiceps** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 79, 1913.

= *Lasiancistrus planiceps* Meek and Hildebrand

Type: No. 7580. Panama: Rio Tuyra, Boca de Cupe, Darien.

Paratypes: 16. Panama: Rio Tuyra (5), Rio Grande (1), Rio Cana (1), Rio Satigante (3), Rio Cupe (6).

**Ancistrus spinosus** Meek and Hildebrand. Figure 32.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 252, 1916.

Type: No. 8942. Panama: Rio Calobre.

**Anisotrema williamsoni** Meek

Proc. Biol. Soc. Wash., 18, p. 241, 1905.

Type: No. 3350. Brazil: Santos.

Paratypes: 3. Same locality.

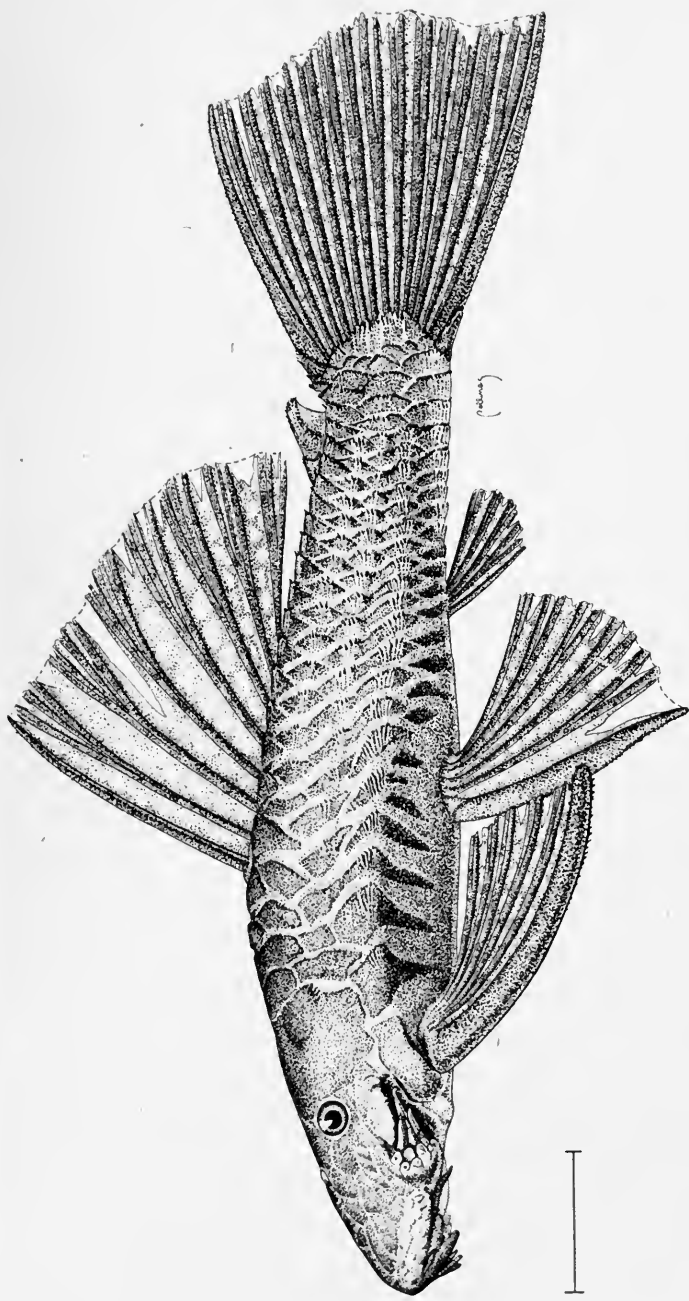


FIG. 32. *Ancistrus spinosus* Meek and Hildebrand, type.

**Anoplarchus purpurascens archolepis** Hubbs

Pap. Mich. Acad. Sci. Arts Lett., 7, p. 375, 1926.

Paratypes: 28. California, Monterey County: Point Joe (10), Point Lobos (2), Monterey Bay (3), Pacific Grove (1), Carmel (12).

There are also several small unnumbered specimens with a mass of eggs, collected by Hubbs at Gorda, California, and marked paratypes in his handwriting.

**Antennarius verrucosus** Bean

Proc. Biol. Soc. Wash., 19, p. 31, 1906.

= *Antennarius multiocellatus* Cuvier and Valenciennes

Type: No. 4853. Bermuda: St. Georges Island.

**Anthias mooreanus** Herre. Figure 33.

Field Mus. Nat. Hist., Zool. Ser., 18, p. 405, 1935.

*Anthias moorensis* Herre, Jour. Pan-Pac. Res. Inst., 6, p. 10, 1931 (nomen nudum).

Type: No. 17325. Society Islands: Moorea Island.

**Apareiodon.** See also **Parodon.****Apareiodon hasemani** Eigenmann

Ann. Carnegie Mus., 10, p. 75, pl. 12, 1916.

Paratypes: 2. Brazil: Januaria.

**Apareiodon itapicuruensis** Eigenmann and Henn

Ann. Carnegie Mus., 10, p. 72, pl. 11, 1916.

Paratype: Brazil: Queimadas.

**Aparrius aurocingulus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 425, 1935.

= *Ctenogobius aurocingulus* Herre

Type: No. 17353. Fiji Islands: Ovalau Island.

Paratypes: 2. Same locality.

**Aphyocharax erythrus** Eigenmann

Mem. Carnegie Mus., 5, p. 313, pl. 44, 1912.

= *Aphyocharax alburnus* Günther

Paratypes: 2. British Guiana: Rockstone, Essequibo River.

**Aplocheilus chobensis** Fowler

Ann. Transvaal Mus., 16, p. 276, fig. 13, 1935.

Paratypes: 4. Africa: Chobe River at Kabulabula, Kalahari Desert.

Two specimens hardened, bent in middle at right angles.

**Apogon abo** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 402, 1935.

Type: No. 17307. New Guinea: Koragu, Sepik River.

Paratypes: 3. New Guinea: Marienberg, Sepik River (2), Ambot, Kerame River (1).

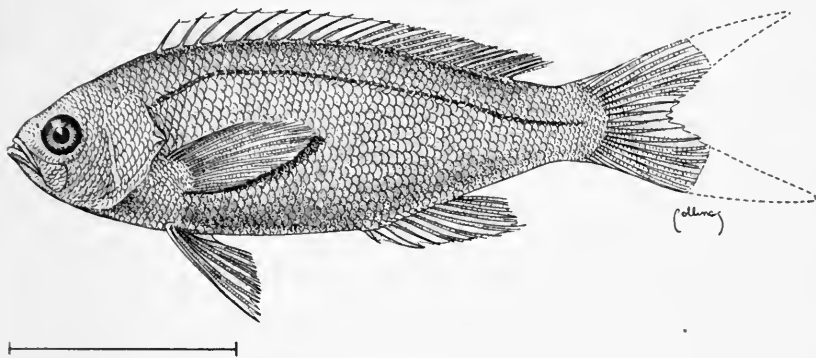


FIG. 33. *Anthias mooreanus* Herre, type.

**Apogon snyderi** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 180, 1902 (1904).

= *Apogon frenata* Valenciennes

Paratypes: 2. Island of Hawaii: Hilo.

**Apteronotus.** See **Sternarchus.**

**Arius.** See also **Galeichthys.**

**Arius kanganamensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 387, fig. 32, 1935.

Type: No. 17194. New Guinea: Kanganaman, Sepik River.

Skin damaged in several places.

**Arius nox** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 388, 1935.

Type: No. 17195. New Guinea: Nyaurangai, Sepik River.

Paratypes: 5. New Guinea: Nyaurangai (2), Kanganaman (3).

Type somewhat shriveled; skin of all specimens torn in spots.

### **Arius solidus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 385, 1935.

Type: No. 17201. New Guinea: Timbunke, Sepik River.

Paratypes: 9. New Guinea, Sepik River: Timbunke (1), Kanganaman (4), Nyaurangai (4).

One paratype in very bad condition; a few others rather shrunken; some with damaged skin.

### **Arius tuyra** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 128, pl. 5, 1923.

= *Tachysurus tuyra* Meek and Hildebrand

Paratypes: 5. Panama: Rio Tuyra at Marriganti (2), Rio Tuyra at Boca de Yape (3).

**Astroblepus.** See **Cyclopium.**

### **Astyanax abramoides** Eigenmann

Ann. Carnegie Mus., 6, p. 21, 1909.

Paratypes: 7. British Guiana, lower Potaro River: Tumatumari (5), Kangaruma (2).

### **Astyanax aeneus costaricensis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 105, 1914.

= *Astyanax fasciatus aeneus* Günther

Cotypes: 206. Costa Rica: Cuba River (5), La Junta (39), Parismina (20), Guapilis River (6), Zent (110), Victoria (25), Chitaria (1).

The two specimens that Meek reported from "Costa Rica River" have not been found.

### **Astyanax albeolus** Eigenmann

Bull. Mus. Comp. Zool., 52, p. 97, 1908-10.

Type: No. 6241. Costa Rica: Rio Machuca.

Eigenmann's original description of this species was based on one of three specimens reported by Meek (Field Mus. Nat. Hist., Zool. Ser., 7, p. 145, 1907) as *Astyanax oerstedii* Kroyer. In 1921 (Mem. Mus. Comp. Zool., 43, pt. 3, p. 290) Eigenmann published a more detailed account of the species, mentioning the type and a paratype (both F.M.N.H. No. 6241) and four addi-

tional specimens. Of these fishes only the type, the specimen on which Eigenmann based his report in 1908, belongs to the original lot that Meek identified as *A. oerstedii*. The so-called paratype and the specimen from Sigiaries (F.M.N.H. No. 6361) were originally identified by Meek as *A. aeneus*. Meek (Field Mus. Nat. Hist., Zool. Ser., 10, p. 106, 1914) afterwards re-identified one of these as *albeolus*. The other three specimens from Chitaria, named by Eigenmann in 1921 as *A. albeolus* (F.M.N.H. No. 6267) were listed later by him as *Bryconamericus peruanus ricae* (q.v.).

Of Meek's original specimens, the only *A. oerstedii* entered in our catalogue is No. 6022, the specimen from Turrialba, not mentioned by Eigenmann either in 1908 or in 1921 and so, presumably, never sent to him. The specimen catalogued as No. 6241 agrees with the original description of the type. Some confusion in this entry is evident, but it is now impossible to clarify the record.

### **Astyanax bimaculatus novae** Eigenmann

Ann. Carnegie Mus., 8, p. 175, pl. 7, 1911.

Paratypes: 3. Brazil: Cachoeira da Velha de Rio Nova.

### **Astyanax bimaculatus paraguayensis** Eigenmann

Mem. Mus. Comp. Zool., 43, p. 256, pl. 92, 1918.

Paratypes: 2. Paraguay: Sapucay.

### **Astyanax essequibensis** Eigenmann

Ann. Carnegie Mus., 6, p. 17, 1909.

Paratypes: 5. British Guiana: Tumatumari, lower Potaro River.

### **Astyanax grandis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 67, 1912.

= *Astyanax fasciatus* Cuvier

Type: No. 7571. Panama: Rio Juan Diaz.

Paratypes: 196. Panama: Rio Juan Diaz (6), Rio Aruza (15), Rio Yape (13), Rio Marte Arnade (25), Rio Abaco (13), Rio Mamoni (43), Rio Calobre (81).

### **Astyanax guianensis** Eigenmann

Ann. Carnegie Mus., 6, p. 16, 1909.

Paratypes: 8. British Guiana: Rockstone (6), Tumatumari, lower Potaro River (2).

### **Astyanax kompi** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 260, fig. 3, 1938.

Paratypes: 6. Panama: Lakes Gulnar and Grande, Volcán.

**Astyanax mucronatus** Eigenmann

Ann. Carnegie Mus., 6, p. 19, 1909.

Paratype: British Guiana: Tukeit.

**Astyanax mutator** Eigenmann

Ann. Carnegie Mus., 6, p. 18, 1909.

Paratypes: 5. British Guiana: Savannah Landing, upper Potaro River.

**Astyanax nasutus** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 108, 1907.

=*Deuterodon nasutus* Meek

Type: No. 5909. Nicaragua: Lake Managua.

Paratypes: 15. Nicaragua: Lake Managua (14), Lagoon Cisplaya (1).

Cisplaya specimen lacks a few scales.

**Astyanax orthodus** Eigenmann

Proc. U. S. Nat. Mus., 33, p. 27, 1907.

Paratypes: 7. Colombia: Truando.

**Astyanax potaroensis** Eigenmann

Ann. Carnegie Mus., 6, p. 22, 1909.

Paratype: British Guiana: Amatuk, lower Potaro River.

**Astyanax regani** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 207, 1909.

Type: No. 6257. Costa Rica: Las Cañas.

**Astyanax ribeirae** Eigenmann

Ann. Carnegie Mus., 8, p. 177, pl. 8, 1911.

Paratypes: 5. Brazil: Morretes.

All specimens somewhat shrunken.

**Astyanax robustus** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 69, 1912.

=*Bryconamericus scleroparius* Regan

Type: No. 7682. Costa Rica: Virginia River.

The type specimen is, fortunately, plainly marked, but the specimens that might be paratypes can only be listed as follows:



- 7862 (18) Guapilis. Meek, 1912.  
 7863 (8) Zent. Meek, 1912.  
 7863 (7) Victoria. Meek, 1912.  
 7865 (24) Virginia River. Meek, probably 1912.  
 7865 (25) Virginia River. Meek, probably 1912.  
 7865 (32) Parismina River or Virginia River. Meek, 1912.  
 . . . . (2) Virginia River. Meek, 1912.

These specimens are accompanied by a variety of labels, some of them contradictory as to number of specimens, date, or locality. Catalogue entries for these numbers are also somewhat confusing.

In his original description Meek states only that the species is based on specimens, 120-140 mm. in length, from the Virginia River.

The published type number (7582) was a misprint.

**Ataeniobius.** See **Goodea.**

**Atherina evermanni** Eigenmann

Bull. U. S. Fish Comm., 22, p. 228, fig., 1902 (1904).

= *Alepidomus evermanni* Eigenmann

Paratypes: 5. Cuba: San Cristóbal (4), Pinar del Rio (1).

**Atherina insularum** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 170, 1902 (1904).

= *Hepsetia insularum* Jordan and Evermann

Paratype: Hawaiian Islands.

**Atherina ovalaua** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 401, 1935.

Type: No. 17272. Fiji Islands: Ovalau Island.

Paratypes: 33. Fiji Islands: Ovalau (10), Viti Levu (23).

**Atherinops affinis littoralis** Hubbs

Bull. Amer. Mus. Nat. Hist., 38, p. 436, 1918.

Type: No. 2064. California: North Island, San Diego Bay.

Paratypes: 5. California: San Diego Bay (2), lagoon at mouth of Ventura River (1), Alamitos Bay (2).

**Atherinops insularum cedroscensis** Hubbs

Bull. Amer. Mus. Nat. Hist., 38, p. 434, 1918.

Paratypes: 2. Lower California: Cedros Island.

**Atherinops insularum guadalupae** Hubbs

Bull. Amer. Mus. Nat. Hist., 38, p. 435, 1918.

Paratypes: 2. Lower California: Guadalupe Island.

**Atuona tricuspidata** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 429, 1935.

Type: No. 17356. Marquesas Islands: Atuona, Hiva Oa Island.

Paratypes: 4. Same locality.

**Auchenipterus brevior** Eigenmann

Mem. Carnegie Mus., 5, p. 202, 1912.

Paratype: British Guiana: Tumatumari, lower Potaro River.

**Aztecula mexicana** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 81, pl. 18, 1902.

Type: No. 3606. Mexico: Rio Moctezuma, San Juan del Rio.

Paratypes: 100. Same locality.

**Balsadichthys.** See **Goodea**.**Barbatula toni posteroventralis** Nichols

Amer. Mus. Nov., No. 171, p. 4, 1925.

Paratypes: 3. China: Kwei-hwan, Shansi.

**Barbatula yarkandensis sellaefer** Nichols

Amer. Mus. Nov., No. 171, p. 4, 1925.

Paratypes: 3. China: Chin-ssu, Shansi.

**Barbus akeleyi** Hubbs

Field Mus. Nat. Hist., Zool. Ser., 12, p. 13, pl. 3, 1918.

Type: 6106. British East Africa: Athi River.

Paratypes: 60. Same locality.

**Barbus athi** Hubbs

Field Mus. Nat. Hist., Zool. Ser., 12, p. 10, pl. 1, 1918.

Type: No. 6108. British East Africa: Athi River.

Paratypes: 65. Same locality.

**Barbus bifrenatus** Fowler

Ann. Transvaal Mus., 16, p. 266, fig. 10, 1935.

Paratypes: 10. Africa, Kalahari Desert: Tsotsoroga Pan, northeast edge of Mababe Flats.

**Barbus fitzsimonsi** Fowler

Ann. Transvaal Mus., 16, p. 267, fig. 11, 1935.

Paratypes: 15. Africa, Kalahari Desert: Chobe River, three miles from Kasana (5), Chobe River at Kabulabula (10).

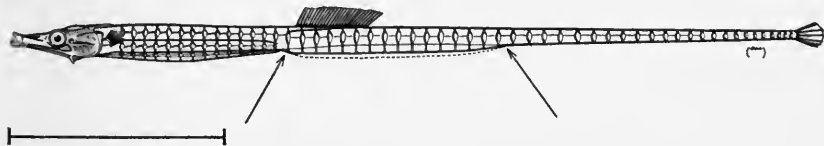


FIG. 34. *Bombonia uxorius* Herre, type. Arrows indicate limits of brood pouch.

**Barbus helleri** Hubbs

Field Mus. Nat. Hist., Zool. Ser., 12, p. 12, pl. 2, 1918.

Type: No. 6105. British East Africa: Athi River.

Paratypes: 102. Same locality.

**Barbus tsotsorogensis** Fowler

Ann. Transvaal Mus., 16, p. 265, fig. 9, 1935.

Paratypes: 13. Africa, Kalahari Desert: Tsotsoroga Pan, northeast edge of Mababe Flats (5), small pan within Makarikari Depression (8).

**Bathypterois pectoralis** Garman

Mem. Mus. Comp. Zool., 24, p. 257, pl. K, fig. 1, 1899.

Paratype: Albatross Station 3376, 3° 9' N., 82° 8' W. in 1,132 fathoms.

**Bivibranchia protractila** Eigenmann

Mem. Carnegie Mus., 5, p. 259, pl. 33, 1912.

Paratype: British Guiana: Tumatumari, lower Potaro River.

This locality is not mentioned in Eigenmann's original description but Tumatumari appears on the accompanying printed field label and "cotype" is written in pencil.

**Bombonia uxorius** Herre. Figure 34.

Field Mus. Nat. Hist., Zool. Ser., 18, p. 395, 1935.

Type: No. 17493. Waigiui Island.

Dr. E. S. Herald has discovered a minute anal fin, too small to be shown on the figure, immediately in front of the brood pouch.

**Boroda malua** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 414, 1935.

=*Oxyeleotris lineolatus* Steindachner

Type: No. 17349. New Guinea: Malu, Sepik River.

Paratypes: 2. Same locality.

**Botia purpurea** Nichols

Amer. Mus. Nov., No. 177, p. 4, fig. 3, 1925.

Paratype: China: Tungting Lake, Hunan.

The specimen is somewhat out of shape.

**Brachyraphis.** See **Gambusia** and **Priapichthys**.**Bramocharax elongatus** Meek. Figure 35.

Field Mus. Nat. Hist., Zool. Ser., 7, p. 110, 1907.

Type: No. 5922. Nicaragua: Lake Managua, Managua.

Paratypes: 26. Nicaragua: Managua (1), Momotombo (4), Lake Nicaragua or Lake Managua (21).

There is some confusion in the labeling of these specimens, but the type is clearly marked and so are the four Momotombo specimens mentioned by Meek in his original description.

**Branchiostoma bermudae** Hubbs

Occ. Pap. Mus. Zool. Univ. Mich., No. 105, p. 9, 1922.

Paratypes: 71. Bermuda: The Flatts.

**Branchiostoma floridae** Hubbs

Occ. Pap. Mus. Zool. Univ. Mich., No. 105, p. 7, 1922.

Paratypes: 7. Florida: Tampa Bay.

**Brycon argenteus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 84, 1913.

Type: No. 7588. Panama: Rio Aruza, Aruza.

Paratypes: 168. Panama: Rio Aruza (9), Rio Chorrera (9), Rio Calobre (9), Rio Paeara near Cerro Azul (1), Rio Grande (4), Rio Cana (51), Rio Satigante (20), Rio Cupe (43), Rio Capetí (5), Rio Yape (6), Pacific slope (11).

**Brycon obscurus** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 283, fig. 6, 1938.

Paratypes: 2. Panama: El Valle, Pacific slope.

**Brycon petrosus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 84, 1913.

Type: No. 7589. Panama: upper Chagres.

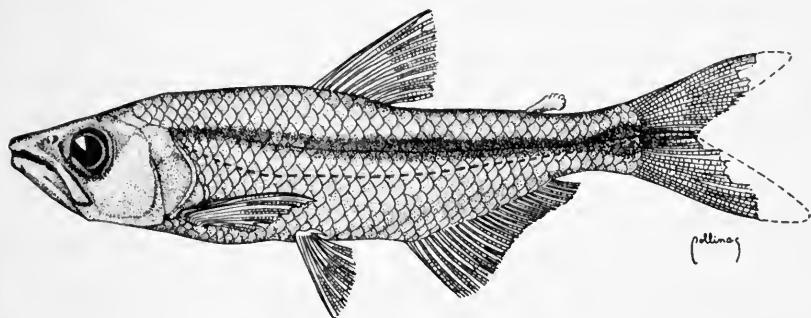
Paratypes: 87. Panama and Canal Zone: upper Chagres (1), Gatun River (24), Rio Boquerón (14), Rio Chagres (6), Rio Pequeni (10), Rio Indio (8), Rio Gatunocello (6), Rio Mandingo (8), Reservoir Creek (10).

**Bryconamericus cascajalensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 284, pl. 19, 1916.

Type: No. 8946. Panama: Rio Cascajal, Porto Bello.

Paratypes: 24. Same locality.

FIG. 35. *Bramocharax elongatus* Meek, type.**Bryconamericus hypessus** Eigenmann

Ann. Carnegie Mus., 6, p. 32, 1909.

Paratype: British Guiana: Tumatumari, lower Potaro River.

**Bryconamericus osgoodi** Eigenmann and Allen

Fishes of Western South America, p. 225, pl. 14, 1942.

Paratypes: 3. Peru: Moyobamba.

These specimens were in Dr. Eigenmann's hands when the description of the species was drawn up.

**Bryconamericus peruanus ricao** Eigenmann

Bull. Mus. Comp. Zool., 52, p. 106, 1908.

= *Bryconamericus ricao* Eigenmann

Cotypes: 3. No. 6267. Costa Rica: Chitaria.

Eigenmann's original description names three specimens from Chitaria as cotypes of this species. In 1927 (Mem. Mus. Comp. Zool., 43, pt. 4,

p. 393) he gave F.M.N.H. No. 6267 as the number assigned to them, yet in 1921 (ibid., pt. 3, p. 290) he had listed the same specimens as *Astyanax albeolus* (q.v.). Our catalogue entry under No. 6267 reads "Astyanax, Chitaria, Costa Rica."

Lectotype, largest specimen, 82 mm. to caudal base.

**Bryconamericus scopiferus** Eigenmann

Indiana Univ. Stud., 18, p. 16, 1913.

Paratypes: 9. Colombia: Istmina.

**Bryconamericus zeteki** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 265, fig. 4, 1938.

Paratypes: 8. Panama: El Valle, Pacific slope.

**Bunocephalus chamaizelus** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 380, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 127, pl. 2, 1912.

Paratype: British Guiana: Tumatumari, lower Potaro River.

**Callionymus wilburi** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 431, 1935.

Type: No. 17491. Waigiu Island.

Paratype: Same locality.

**Callogobius ocellatus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 422, 1935.

= *Acentrogobius koumansii* Whitley

Type: No. 17363. Fiji Islands: Ovalau Island.

**Carlia.** See **Cheirodon.**

**Carpiodes elongatus** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 28, fig. 5, 1904.

= *Carpiodes carpio elongatus* Meek

Type: No. 4425. Mexico: Linares, Nuevo Leon.

Paratypes: 13. Mexico: Linares (3), San Juan (3), Montemorelos (7).

Specimens from La Cruz, mentioned by Meek in his original description, have not been found.

**Carpiodes labiosus** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 29, fig. 6, 1904.

Type: No. 4492. Mexico: Valles, San Luis Potosí.

Paratype: Same locality.

***Carpiodes microstomus* Meek**

Field Mus. Nat. Hist., Zool. Ser., 5, p. 27, fig. 4, 1904.

= *Carpiodes carpio elongatus* Meek

Type: No. 3542. Mexico: Rio Noavaca, Santa Rosalía, Chihuahua.

Paratypes: 18. Mexico: Rio Noavaca (14), Rio Conchos, Jiménez (4).

***Catostomus conchos* Meek**

Field Mus. Nat. Hist., Zool. Ser., 3, p. 75, pl. 15, 1902.

Type: No. 3557. Mexico: Rio Conchos, Jiménez.

Paratypes: 8. Same locality.

***Catostomus sonorensis* Meek**

Field Mus. Nat. Hist., Zool. Ser., 3, p. 75, pl. 16, 1902.

Type: No. 3564. Mexico: Paphigochic River, Miñaca, Chihuahua.

Paratypes: 30. Same locality.

***Characidium blennoides* Eigenmann**

Ann. Carnegie Mus., 6, p. 37, 1909.

Paratype: British Guiana: Amatuk, lower Potaro River.

***Characidium catenatum* Eigenmann**

Ann. Carnegie Mus., 6, p. 40, 1909.

Paratype: British Guiana: Rockstone, Essequibo River.

***Characidium vintoni* Eigenmann**

Ann. Carnegie Mus., 6, p. 36, 1909.

= *Characidium laterale* Eigenmann

Paratypes: 2. British Guiana: Shrimp Creek near Tukeit.

***Characidium zebra* Eigenmann**

Ann. Carnegie Mus., 6, p. 38, 1909.

Paratype: British Guiana: Maripicru Creek, between Wontyke and Karakara.

***Characodon multiradiatus* Meek**

Field Mus. Nat. Hist., Zool. Ser., 5, p. 119, 1904.

= *Lermichthys multiradiatus* Meek

Type: No. 4523. Mexico: Rio Lerma, Lerma.

Paratypes: 23. Same locality.

**Chasmias misakius** Jordan and Snyder

Proc. U. S. Nat. Mus., 23, p. 761, pl. 36, 1901.

=*Chasmichthys gulosus* Sauvage

Paratypes: 35. Japan: Misaki, Sagami.

**Chasmocranus longior** Eigenmann

Mem. Carnegie Mus., 5, p. 160, pl. 14, 1912.

*Chasmocephalus longior* Eigenmann, Repts. Princeton Univ. Exp. Patagonia, 3, p. 384, 1910 (nomen nudum).

Paratype: British Guiana: Amatuk, lower Potaro River.

**Cheirodon eigenmanni** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 70, 1912.

=*Rhoadsia eigenmanni* Meek

Type: No. 7683. Costa Rica: La Junta.

Paratype: Same locality.

The published type number (7583) is an error.

**Chirostoma attenuatum** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 112, pl. 27, 1902.

=*Chirostoma bartoni* Jordan and Evermann

Type: No. 3631. Mexico: Lago de Patzcuaro, Michoacán.

Paratypes: 26. Same locality.

**Chirostoma consocium** Jordan and Hubbs

Stanf. Univ. Publ., Univ. Ser., Rev. Fam. Atherinidae, p. 76, 1919.

Type: No. 3672. Mexico: La Palma, Michoacán.

Paratypes: 88. Mexico: La Palma (77), Ocotlán (11).

**Chirostoma jordani** Woolman

Bull. U. S. Fish Comm., 14, p. 62, 1894.

Cotypes: 10. Mexico: Salamanca.

Five of these specimens have been found by Hubbs to be *Chirostoma arge* Jordan and Snyder. These are in good condition but the other five are somewhat hardened and shriveled.

**Chirostoma labarcae** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 113, pl. 27, 1902.



Type: No. 3640. Mexico: La Barca, Jalisco.

Paratypes: 8. Mexico: La Barca (5), La Palma (3).

### **Chirostoma mezquital** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 170, fig. 53, 1904.

Type: No. 4389. Mexico: Rio Mezquital, Durango.

Paratypes: 7. Same locality.

### **Chirostoma patzcuaro** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 113, pl. 27, 1902.

Type: No. 3628. Mexico: Lago de Patzcuaro, Michoacán.

Paratypes: 6. Same locality.

### **Chirostoma regani** Jordan and Hubbs

Stanf. Univ. Publ., Univ. Ser., Rev. Fam. Atherinidae, p. 74, 1919.

Type: No. 3687. Mexico: Xochimilco.

Paratypes: 13. Same locality.

### **Chirostoma zirahuen** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 114, pl. 28, 1902.

Type: No. 3609. Mexico: Lago de Zirahuen, Michoacán.

Paratypes: 50. Same locality.

### **Cichlasoma.** See also **Heros** and **Thorichthys**.

### **Cichlasoma alfari** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 148, 1907.

Type: No. 6032. Costa Rica: Turrialba.

Paratypes: 3. Same locality.

### **Cichlasoma calobrense** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 90, 1913.

Type: No. 7600. Panama: Rio Calobre.

Paratypes: 38. Panama: Rio Calobre (3), Rio Tuyra (1), Rio Capetí (2), Rio Aruza (16), Rio Cupe (10), Rio Mamoni (4), Rio Yape (2).

On the evidence of the catalogue entries the authors originally intended to base this form on No. 29107, from the Rio Aruza. When the designation of type was changed to No. 7600, from the Rio Calobre, they did not insert in the manuscript the needed change in measurement of length, which appears in the original description as 215 mm. The designated type measures 152 mm.

**Cichlasoma centrale** Meek. Figure 36.

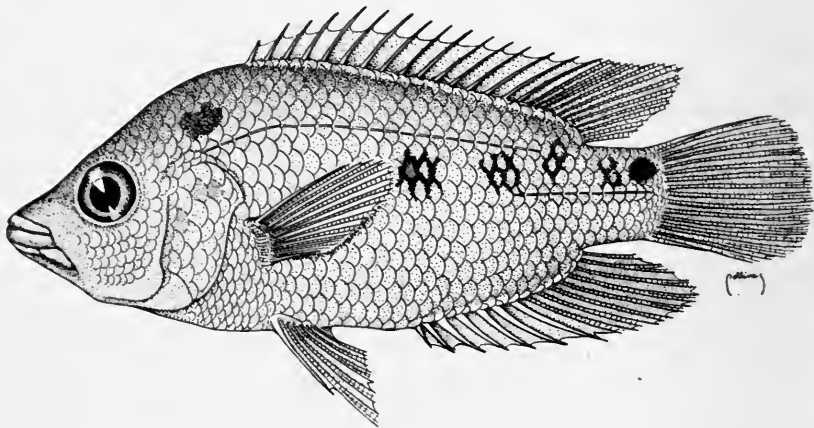
Field Mus. Nat. Hist., Zool. Ser., 7, p. 94, 1906.

Type: No. 5510. Guatemala: Caballo Blanco.

**Cichlasoma dorsatum** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 123, 1907.

Type: No. 5971. Nicaragua: Lake Managua.

Paratypes: 4. Nicaragua: Lake Managua (2), Lagoon Jenicero (1),  
Lake Nicaragua (1).FIG. 36. *Cichlasoma centrale* Meek, type.**Cichlasoma eigenmanni** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 119, pl. 30, 1902.

Type: No. 3712. Mexico: Rio Tehuacán, Venta Salada, Pueblo.

Paratype: Same locality.

**Cichlasoma evermanni** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 214, fig. 70, 1904.

Type: No. 4727. Mexico: Tehuantepec, Oaxaca.

Paratypes: 4. Same locality.

The published type number (4227) is an error.

**Cichlasoma frontale** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 210, 1909.

= *Cichlasoma underwoodi* Regan

Type: No. 6358. Costa Rica: Turrubales.

Paratype: Costa Rica: Turrubares.

### **Cichlasoma granadense** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 121, 1907.

Type: No. 5951. Nicaragua: Lake Nicaragua, Granada.

Paratypes: 8. Nicaragua: Lake Nicaragua (2), Lake Managua (2), Lagoon San Francisco (3), Lagoon Jenicero (1).

### **Cichlasoma hedricki** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 208, fig. 66, 1904.

Type: No. 4673. Mexico: Obispo, Oaxaca.

Paratypes: 42. Mexico: Obispo (14), Perez (25), Vera Cruz (3).

The El Hule specimens mentioned by Meek in his original description have not been found.

### **Cichlasoma meeki** Hildebrand

Bull. Bur. Fish., 41, p. 275, fig. 20, 1925.

=*Cichlasoma guiya* Hildebrand

Paratypes: 13. El Salvador: Rio Lempa, San Marcos (6), Lake Chalchuapa (3), Metapán (1), Lake Guija and Rio del Desague (3).

*Cichlasoma guiya* is a substitute name proposed by Hildebrand (Copeia, 1934, p. 192), *C. meeki* being preoccupied by *Thorichthys helleri meeki* Brind (= *Cichlasoma meeki* Brind).

### **Cichlasoma milleri** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 142, 1907.

Type: No. 5529. Guatemala: El Rancho.

Paratypes: 14. Same locality.

### **Cichlasoma mojarra** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 217, fig. 71, 1904.

Type or paratype: No. 4719. Mexico: San Gerónimo, Oaxaca.

No. 4718, the published type number, is listed in our catalogue as *Cichlasoma*, but a specimen with that number cannot be found. No. 4719 is listed as *Cichlasoma mojarra* and measures 2.35 inches, the length given in the published description of the type.

### **Cichlasoma nigratum** Meek. Figure 37.

Field Mus. Nat. Hist., Zool. Ser., 7, p. 128, 1907.

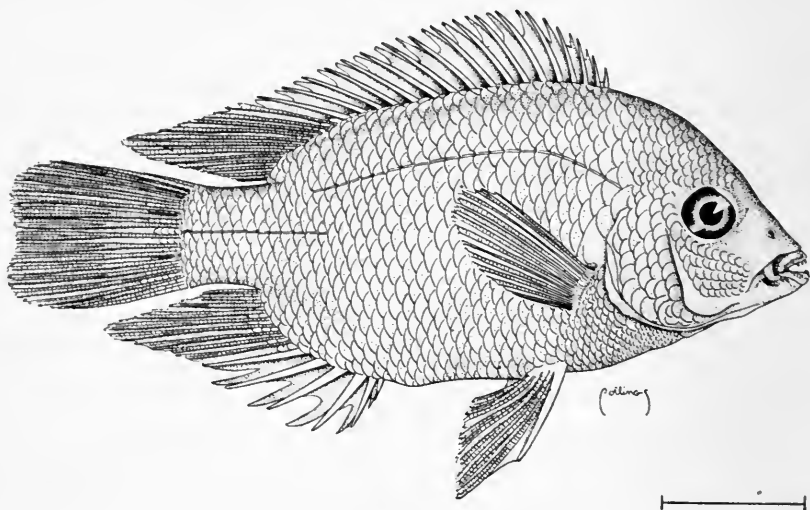
Type: No. 5979. Nicaragua: Lake Nicaragua, Granada.

**Cichlasoma punctatum** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 210, 1909.

Type: No. 6478a. Costa Rica: Buenos Aires de Térraba.

Paratypes: 10. Same locality.

FIG. 37. *Cichlasoma nigritum* Meek, type.**Cichlasoma spilotum** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 73, 1912.

Type: No. 7686. Costa Rica: Victoria.

Paratypes: 10. Costa Rica: Zent.

Published type number (7586) a misprint.

The ten specimens from Zent are evidently paratypes, in spite of Dr. Meek's published statement that the species was known only from Victoria. He stated that he had eleven specimens from that locality, collected April 13, 1912. The original label, in his handwriting, lists one (the type) from Victoria, and ten from Zent. It seems probable that these eleven specimens are the ones he had in hand when he wrote the original description. [A. C. WEED]

**Cichlasoma tenue** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 94, 1906.

Type: No. 3781. Mexico: Ahotal, Vera Cruz.

Paratypes: 4. Same locality.

**Cichlasoma tuba** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 73, 1912.

Type or paratype?: Costa Rica: Victoria.

The type of this species is apparently lost. We have a specimen, No. 7734, accompanied by a typewritten label reading "*Cichlasoma tuba*(?) Paratype(?)." A tag sewed on the fish reads "7734, Victoria, Costa Rica, Meek, April 13, 1912."

Three-quarters of one side of the specimen has been dissected away and the tip of the caudal is broken. Its standard length is 129 mm. Since Meek published the type length as 222 mm., this specimen is probably not the type, nor can we determine now why it was thought to be a paratype, since the name *C. tuba* does not appear on the tag.

The type was entered in the catalogue as No. 7681, the published number (7581) being a misprint.

### ***Cichlasoma tuyrense* Meek and Hildebrand**

Field Mus. Nat. Hist., Zool. Ser., 10, p. 89, 1913.

Type: No. 7599. Panama: Rio Tuyra, Boca de Cupe, Darien.

Paratypes: 65. Panama: Rio Tuyra (8), Rio Calobre (2), Rio Mamoni (11), Rio Aruza (4), Rio Cupe (35), Rio Capetí (5).

### ***Cichlasoma umbriferum* Meek and Hildebrand**

Field Mus. Nat. Hist., Zool. Ser., 10, p. 88, 1913.

Type: No. 7598. Panama: Rio Cupe, Cituro, Darien.

Paratypes: 20. Panama: Rio Cupe (10), Rio Aruza (7), Rio Yape (3).

### ***Cichlasoma urophthalmus mayorum* Hubbs**

Carnegie Inst. Wash., Publ. 457, p. 277, pls. 13-15, 1936.

Paratypes: 3. Yucatan: Xtolok Cenote, Chichén Itzá.

### ***Cichlasoma zonatum* Meek**

Proc. Biol. Soc. Wash., 18, p. 245, 1905.

Type: No. 3776. Mexico: Niltepec, Oaxaca.

Paratype: Same locality.

### ***Clinocottus analis australis* Hubbs**

Occ. Pap. Mus. Zool. Univ. Mich., No. 171, p. 11, 1926.

Paratypes: 314. California: White Point, San Pedro (57), Point Loma (13), Bird Rock, San Diego (44), Avalon, Catalina Island (32), Laguna Beach (168).

The 168 specimens from Laguna Beach are labeled paratypes in Hubbs' handwriting, although he did not mention them in his original description.

**Cnesterodon carnegieii** Haseman

Ann. Carnegie Mus., 7, p. 385, pl. 83, 1911.

= *Cnesterodon decemmaculatus* Jenyns

Paratypes: 4. Brazil: Rio Iguassú, Serrinha Paraná.

**Cobitis taenia melanoleuca** Nichols

Amer. Mus. Nov., No. 170, p. 3, 1925.

Paratype: China: Shansi.

**Copeina osgoodi** Eigenmann

Mem. Carnegie Mus., 9, p. 232, 1922.

Type: No. 15352. Peru: mouth of Yavary River, Nazareth.

Paratypes: 6. Same locality.

**Coregonus stanleyi** Kendall

Bull. U. S. Fish Comm., 22, p. 366, fig., 1903.

Paratypes: 2. Maine: Eagle Lake, Aroostook County.

**Coripareius septentrionalis** Nichols

Amer. Mus. Nov., No. 181, p. 2, 1925.

= *Coreius septentrionalis* Nichols

Paratype: China: Yellow River, Paotou.

**Corythoichthys elerae** Evermann and Seale

Bull. Bur. Fish., 26, p. 57, fig. 2, 1906 (1907).

Paratype: Philippine Islands: Bacon, Sorsogon, Luzon.

**Cotylyis nigripinnis woodsi** Schultz. Figure 38.

Proc. U. S. Nat. Mus., 96, p. 68, 1944.

Type: No. 41974. Cocos Island: Wafer Bay.

**Creagrutus notropoides** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 68, 1912.

Type: No. 7574. Panama: Rio Indio.

Paratypes: 67. Panama: Rio Indio (16), Rio Boquerón (40), Rio Pequeni (5), Rio Chagres (5), Rio Missimbi (1).

**Creagrutus simus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 85, 1913.

= *Creagrutus affinis* Steindachner

Type: No. 7591. Panama: Rio Cupe, Cituro.

Paratypes: 232. Panama: Rio Cupe (133), Rio Aruza (31), Rio Tuyra (12), Rio Capetí (18), Rio Yape (38).

**Crenicichla alta** Eigenmann

Mem. Carnegie Mus., 5, p. 516, pl. 68, 1912.

Paratype: British Guiana: Rockstone, Essequibo River.

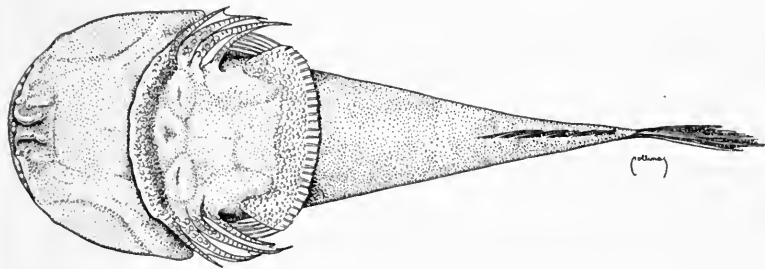
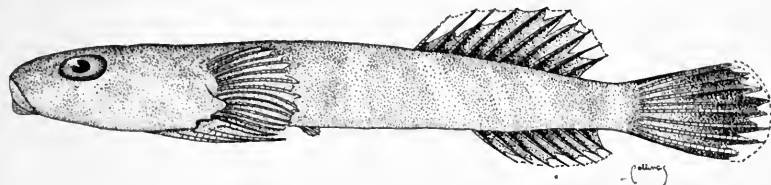


FIG. 38. *Cotylis nigripinnis woodsii* Schultz, type.

**Crossochir koelzi** Hubbs

Proc. U. S. Nat. Mus., 89, p. 4, pl. 1, 1933.

Paratypes: 6. California: San Diego.

**Crossostoma fascicauda** Nichols

Amer. Mus. Nov., No. 224, p. 2, fig. 2, 1926.

Paratype: China: Fuching Hsien, Fukien.

**Cryptocentrus geniornatus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 428, 1935.

=*Cryptocentrus leptocephalus* Bleeker

Type: No. 17364. Waigiou Island.

**Cryptotomus crassiceps** Bean

Proc. Biol. Soc. Wash., 19, p. 32, 1906.

= *Cryptotomus roseus* Cope

Cotypes: 2. Bermuda: Cooper's Island.

Lectotype (larger specimen) measures 134 mm. total length.

**Ctenogobius aterrimus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 423, 1935.

*Rhinogobius aterrimus* Herre, Jour. Pan-Pac. Res. Inst., 6, p. 9, 1931 (nomen nudum).

Type: No. 17384. Solomon Islands: Kulambangra Island.

**Ctenogobius malekulae** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 423, 1935.

*Rhinogobius malekulae* Herre, Jour. Pan-Pac. Res. Inst., 6, p. 14, 1931 (nomen nudum).= *Herreogobius malekulae* Herre

Type: No. 17385. New Hebrides: Bushman's Bay, Malekula Island.

**Ctenogobius waigiensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 424, 1935.

= *Acentrogobius bontii* Weber

Type: No. 17413. Waigi Island.

Paratypes: 77. Same locality.

**Cubanichthys.** See **Fundulus.****Curimatus atratoensis** Eigenmann

Indiana Univ. Stud., 16, p. 19, 1912.

Paratypes: 6. Colombia: Quibdo.

**Curimatus morawahannae** Eigenmann

Mem. Carnegie Mus., 5, p. 266, pl. 34, 1912.

Paratypes: 2. British Guiana: Mora Passage.

**Cyclopium pirrense** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 83, 1913.

= *Astroblepus pirrense* Meek and Hildebrand

Type: No. 7586. Panama: Rio Cana, Darien.

Paratypes: 33. Same locality.

All specimens slightly shriveled.



**Cynodonichthys tenuis** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 101, fig. 27, 1904.

Type: No. 4643. Mexico: El Hule, Oaxaca.

**Cyprinodon dearborni** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 208, 1909.

Type: No. 6484. Dutch West Indies: Willemstad, Curaçao.

Paratypes: 13. Same locality.

**Cypselurus alienus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 392, 1935.

=*Cypselurus comatus* Mitchill

Type: No. 17224. South coast of Cuba, near Santiago.

Slightly shriveled.

**Darienichthys.** See **Gambusia.****Deuterodon.** See also **Astyanax.****Deuterodon atracaudata** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 63, 1912.

=*Gephyrocharax atracaudatus* Meek and Hildebrand

Type: No. 7573. Canal Zone: Rio Frijoles.

Paratypes: 496. Panama and Canal Zone: Rio Frijoles (51), Rio Missimbi (27), Agua Clara (49), Gatun River (69), Limón Creek (8), Toro Point (2), upper Trinidad (23), Rio Indio (11), Rio Boquerón (4), creek at Mindi (1), Rio Mandingo (16), Porto Bello (10), Rio Chagres (6), Largateria Creek (10), Rio Cárdenas (70), small creek, Corozal (40), Arrijan (17), Rio Chorrera (7), Rio Calobre (3), Rio Mamoni (8), Rio Pedro Miguel (15), Paraíso (49).

**Deuterodon pinnatus** Eigenmann

Ann. Carnegie Mus., 6, p. 25, 1909.

Paratypes: 2. British Guiana: Amatuk, lower Potaro River (1), Warraputa Falls, Essequibo River (1).

**Diapterus evermanni** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 594, pl. 63, 1925.

Paratypes: 2. Panama: Fox Bay, Colón.

**Diplectrum pacificum** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 477, pl. 46, 1925.

Paratypes: 3. Panama: Naos Island.

**Disparichthys fluviatilis** Herre. Figure 39.

Field Mus. Nat. Hist., Zool. Ser., 18, p. 384, fig. 31, 1935.

Type: No. 17192. New Guinea: Marienberg, Sepik River.

Condition bad, head mutilated.

**Distichodus stigmaturus** Fowler

Ann. Transvaal Mus., 16, p. 260, figs. 6, 7, 1935.

Paratypes: 3. Africa: Chobe River, Kalahari Desert.

**Dollfusichthys sinus arabici** Chabanaud

Bull. Soc. Zool. Fr., 56, p. 304, 1931.

Paratype: Bay of Suez.

Specimen in bad condition.

**Doraops zuloagi** Schultz

Proc. U. S. Nat. Mus., 94, p. 271, fig. 5, pl. 7A, 1944.

Paratype: Venezuela: Rio Apon, near mouth of Rio Cogillo.

**Dorosoma anale** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 93, fig. 26, 1904.

Type: No. 4637. Mexico: El Hule, Oaxaca.

Paratypes: 13. Mexico: El Hule (2), Otopa (2), Perez (7), San Juan Evangelista (2).

Numbers 4190 and 4191 from El Hule, described in 1941 by Hubbs and Miller (Copeia, p. 235) were errors, those numbers having been already assigned to *Holocentrus xantherythrus* (q.v.). The two El Hule paratypes have now been catalogued as No. 43148.

Otopa specimens lacking some scales.

**Dorosoma chavesi** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 112, 1907.

Paratypes: 75. Nicaragua: Lagoon Jenicero (19), Momotombo (15), Managua (35), Lagoon Jenicero (6).

Type (No. 5928, Lagoon Jenicero) missing.

**Echidna zonophaea** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 167, 1902 (1904).

= *Echidna polyzona* Richardson

Paratype: Hawaiian Islands: Honolulu.

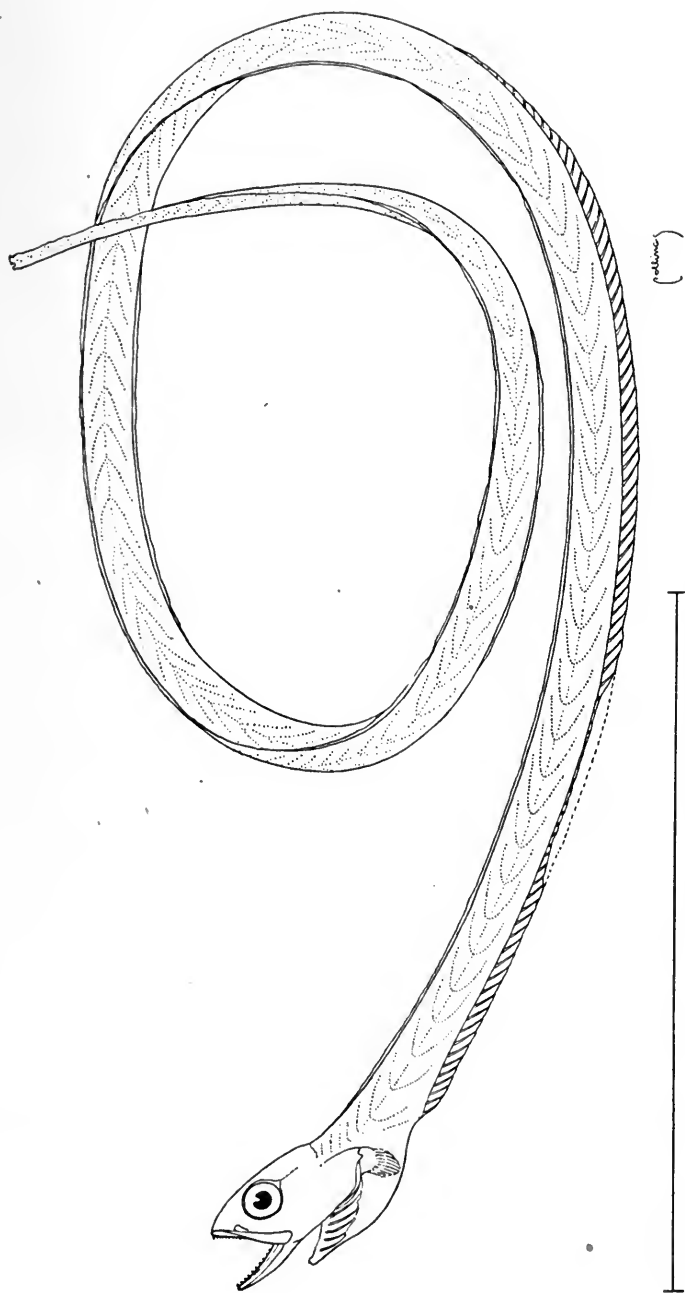


FIG. 39. *Disparichthys fluviatilis* Herre, type.

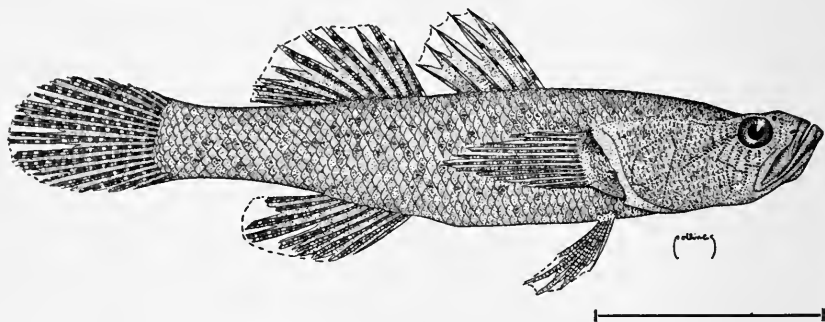
**Eleotris isthmensis** Meek and Hildebrand. Figure 40.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 359, 1916.

=*Eleotris melanosoma* Bleeker

Type: No. 8951. Canal Zone: Mindi Cut.

Paratypes: 28. Panama and Canal Zone: Mindi Cut (22), creek near Mindi (1), Fox Bay (1), Largateria Creek (2), Rio Trinidad (2).

FIG. 40. *Eleotris isthmensis* Meek and Hildebrand, type.**Eleotris latifasciatus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 68, 1912.

=*Hemieleotris latifasciatus* Meek and Hildebrand

Type: No. 7575. Canal Zone: Rio Cárdenas, Corozal.

Paratypes: 3. Panama: Rio Juan Diaz (2), Rio Mamoni (1).

**Eleotris macrolepis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 130, 1914 (not of Bleeker).

=*Leptophilypnus panamensis* Meek and Hildebrand

Type: No. 7775. Costa Rica: Jesús María.

Mr. Isaac Ginsburg has examined the type of Meek's *Eleotris macrolepis* and has found it identical with *Leptophilypnus panamensis* Meek and Hildebrand (described as *Microeleotris panamensis*, q.v.). *E. macrolepis* is pre-occupied (*Culius macrolepis* Bleeker 1875, revised to *Eleotris* by Weber 1908), but since *L. panamensis* is already available as a substitute name for the species, it is unnecessary to propose a new one.

**Emblemaria nigra** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 953, pl. 97, 1928.

Paratype: Panama: Porto Bello.

**Enneapterygius punctulatus** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 14, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 432, 1935.

Type: No. 17388. New Hebrides: Wala Island.

Paratypes: 3. New Hebrides: Wala Island (2), Hog Harbor, Espiritu Santo Island (1).

**Enneapterygius waigiensis** Herre. Figure 41.

Field Mus. Nat. Hist., Zool. Ser., 18, p. 434, 1935.

Type: No. 17494. Waigi Island.

Condition bad.

**Ehippicharax.** See *Fowlerina*.

**Erotelis.** See *Euleptoeleotris*.

**Etelis evurus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 184, 1902 (1904).

Paratype: Island of Hawaii: Hilo.

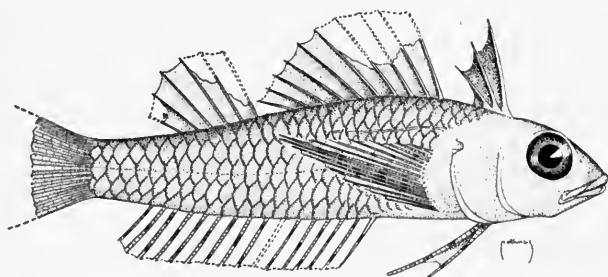


FIG. 41. *Enneapterygius waigiensis* Herre, type.

**Eucinostomus californiensis elongatus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 586, pl. 62, 1925.

= *Eucinostomus elongatus* Meek and Hildebrand

Paratypes: 52. Panama: Taboga Island.

**Euctenogobius liolepis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 875, pl. 87, 1928.

Paratypes: 7. Canal Zone: on beach near Balboa.

**Euctenogobius panamensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 874, pl. 86, 1928.

Paratypes: 3. Panama: Rio Culebra, Culebra.

Specimen from El Capitan, listed in our catalogue, is missing.

**Euleptoeleotris clarki** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 351, fig. 12, 1938.

=*Erotelis clarki* Hildebrand

Paratypes: 2. Canal Zone: Miraflores locks (east chambers).

**Euleptoeleotris shropshirei** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 353, fig. 13, 1938.

Paratype: Panama: Puerto Pilón.

**Eupomacentrus chrysus** Bean

Proc. Biol. Soc. Wash., 19, p. 32, 1906.

=*Pomacentrus planifrons* Cuvier and Valenciennes

Type: No. 5025. Bermuda: White's Flat Channel.

**Evarra tlahuacensis** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 85, pl. 18, 1902.

Type: No. 3681. Mexico: Chalco Lake, Tlahuac.

**Evorthodus minutus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 870, pl. 84, 1928.

Paratype: Canal Zone: Corozal.

**Felichthys amblops** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 77, 1913.

=*Trachycoristes amblops* Meek and Hildebrand

Type: No. 7576. Panama: Rio Tuyra, Marriganti, Darien.

Paratypes: 3. Panama: Rio Tuyra, Marriganti (2), Rio Tuyra, Boca de Yape (1).

All specimens shriveled.

**Flammeo scythrops** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 174, 1902 (1904).

=*Holocentrus scythrops* Jordan and Evermann

Paratype: Hawaiian Islands: Honolulu.

**Fowlerina franciscoensis** Eigenmann

Indiana Univ. Bull., 12, p. 45, 1914.

= *Ephippicharax franciscoensis* Eigenmann

Paratypes: 4. Brazil: Penedo.

Although described by Eigenmann in 1914 as *Fowlerina franciscoensis*, this species appears in 1929 (Eigenmann and Myers, Mem. Mus. Comp. Zool., 43, pt. 5, p. 506, pl. 70) as *Ephippicharax franciscoensis* sp. nov.

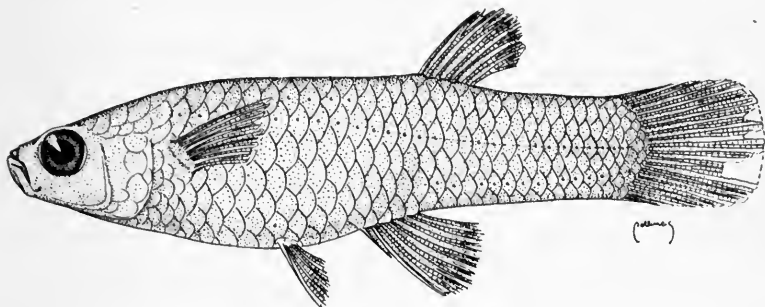


FIG. 42. *Gambusia cana* Meek and Hildebrand, type.

**Fundulus.** See also *Zygonectes*.

**Fundulus cubensis** Eigenmann

Bull. U. S. Fish Comm., 22, p. 222, fig., 1902 (1904).

= *Cubanichthys cubensis* Eigenmann

Paratype: Cuba: Pinar del Rio.

**Fundulus oaxacae** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 90, pl. 20, 1902.

= *Profundulus oaxacae* Meek

Type: No. 3721. Mexico: Rio Verde, Oaxaca.

Paratypes: 40. Same locality.

**Galeichthys aguadulce** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 9, pl. 4, 1904.

= *Arius aguadulce* Meek

Type: No. 4678. Mexico: Rio Papaloapan, Perez, Vera Cruz.

**Gambusia bonita** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 132, fig. 39, 1904.

= *Priapella bonita* Meek

Type: No. 4630. Mexico: Refugio, Vera Cruz.

Allotype and paratypes: 54. Mexico: Motzorongo (1), Refugio (53).

**Gambusia cana** Meek and Hildebrand. Figure 42.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 87, 1913.

= *Allogambusia cana* Meek and Hildebrand

Type: No. 7596. Panama: Rio Satigante, Cana, Darien.

Allotype and paratypes: 35. Same locality.

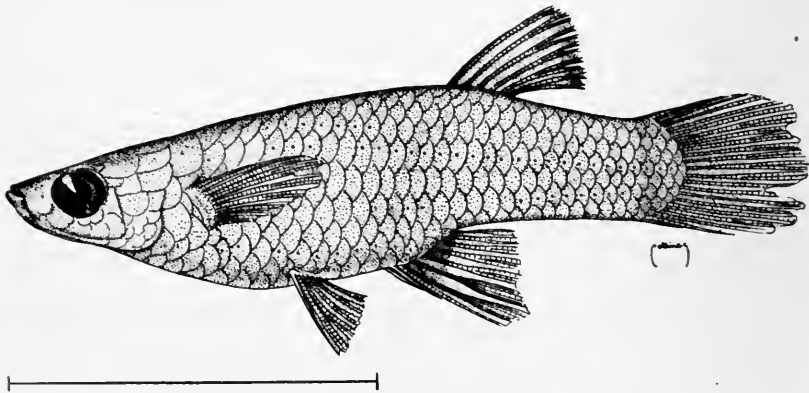


FIG. 43. *Gambusia cascajalensis* Meek and Hildebrand, type.

**Gambusia cascajalensis** Meek and Hildebrand. Figure 43.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 86, 1913.

= *Brachyraphis cascajalensis* Meek and Hildebrand

Type: No. 7594. Panama: Rio Cascajal, Porto Bello.

Allotype and paratypes: 16. Same locality.

**Gambusia darienensis** Meek and Hildebrand. Figure 44.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 88, 1913.

= *Darienichthys dariensis* Meek and Hildebrand

Type: No. 7597. Panama: Rio Capetí, Darien.

Allotype and paratypes: 62. Panama: Rio Capetí (9), Rio Aruza (2), Rio Yape (19), Rio Calobre (8), Rio Cupe (20), Rio Mamoni (2), Rio Juan Diaz (1), Panama (1).

Eight paratypes from the Rio Capetí rather shrunken, the one from the Rio Aruza badly so.



**Gambusia fasciata** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 129, fig. 37, 1904.

=*Poeciliopsis fasciata* Meek

Type: No. 4715. Mexico, Oaxaca: San Gerónimo.

Paratypes: 26. Mexico, Oaxaca: San Gerónimo (23), Tehuantepec (3).

**Gambusia infans** Woolman

Bull. U. S. Fish Comm., 14, p. 62, 1894.

=*Poeciliopsis infans* Woolman

Cotypes: 6. Mexico: Salamanca.

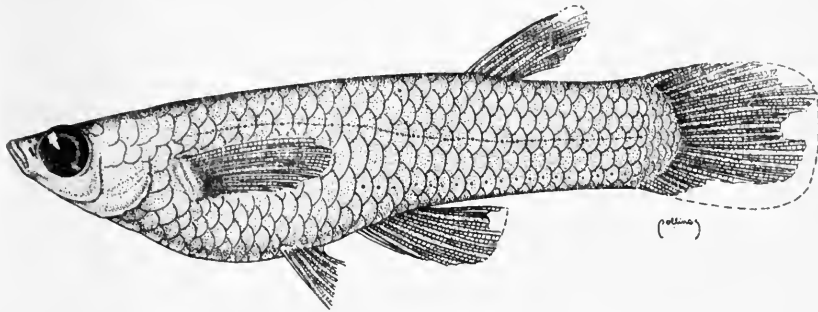


FIG. 44. *Gambusia darienensis* Meek and Hildebrand, type.

**Gambusia latipunctata** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 87, 1913.

=*Brachyraphis episcopi* Steindachner

Type: No. 7595. Panama: Arrijan.

Paratypes: 16. Same locality.

**Gambusia panuco** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 16, p. 30, 1926.

Type: No. 14060. Mexico: Valles, San Luis Potosí.

Allotype and paratypes: 8. Same locality.

**Gambusia parismina** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 71, 1912.

=*Brachyraphis parismina* Meek

Type: No. 7678. Costa Rica: Parismina.

Paratypes: 43. Same locality.

The published type number (7578) is an error.

### **Gambusia regani** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 16, p. 26, 1926.

Type: No. 14033. Mexico: Forlón, Tamaulipas.

Allotype and paratypes: 12. Same locality.

Allotype rather shriveled.

### **Gambusia turrubarensis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 71, 1912.

= *Poeciliopsis turrubarensis* Meek

Type: No. 7676. Costa Rica: Turrubares.

Allotype and paratypes: 95. Same locality.

Published type number (7576) an error. Sixty-three specimens from Rio Grande, Orotina, and thirty-two from Jesús María, in this same collection, were catalogued at the same time and may have been part of the type lot, although Turrubares was the only locality mentioned in the original description.

### **Gambusia umbratilis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 70, 1912.

= *Xenophallus umbratilis* Meek

Type: No. 7684. Costa Rica: Guapilis.

Paratypes: 80. Costa Rica: Guapilis (57), Virginia River (23).

Published type number (7584) an error. Although Meek mentions only the type locality in his original description the specimens from the Virginia River were probably part of the type lot.

### **Gambusia vittata** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 16, p. 26, 1926.

Type: No. 14046. Mexico: Forlón, Tamaulipas.

Paratypes: 12. Same locality.

### **Gasterosteus plebius** Girard

Proc. Acad. Nat. Sci. Phila., 7, p. 147, 1854 (1856).

= *Gasterosteus williamsoni microcephalus* Girard

Cotypes: 4. California: Petaluma.

Specimens received from the United States Fish Commission as cotypes, although the locality is not mentioned in the original description. Condition bad.

**Gephyrocharax.** See also **Deuterodon.**

**Gephyrocharax chochoensis** Eigenmann

Indiana Univ. Stud., 8, p. 23, 1912.

Paratypes: 9. Colombia: Istmina.

**Gephyrocharax intermedius** Meek and Hildebrand. Figure 45.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 278, 1916.

Type: No. 8945. Panama: Rio Chame.

Paratypes: 28. Same locality.

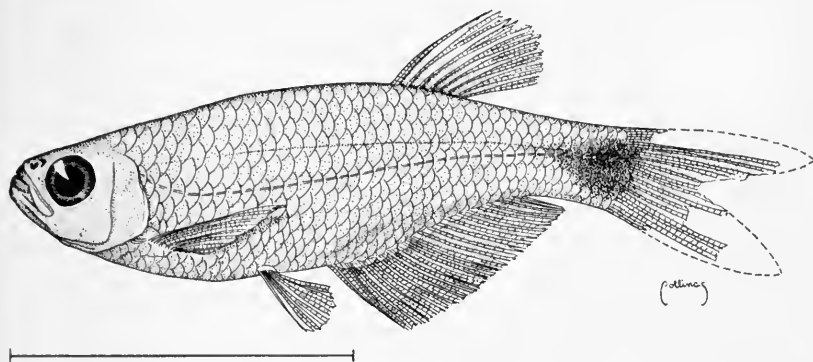


FIG. 45. *Gephyrocharax intermedius* Meek and Hildebrand, type.

**Gephyrocharax whaleri** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 254, fig. 2, 1938.

Paratypes: 8. Panama: between Campaña and La Venta.

**Gerhardinus nudus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 889, pl. 88, 1928.

Paratypes: 7. Panama: tide pools, Panama City.

**Gibbonsia elegans montereyensis** Hubbs

Pap. Mich. Acad. Sci., 7, p. 354, 1927.

Paratypes: 8. California: Point Lobos, Monterey County (3), Carmel Bay (5).

**Gibbonsia metzi** Hubbs

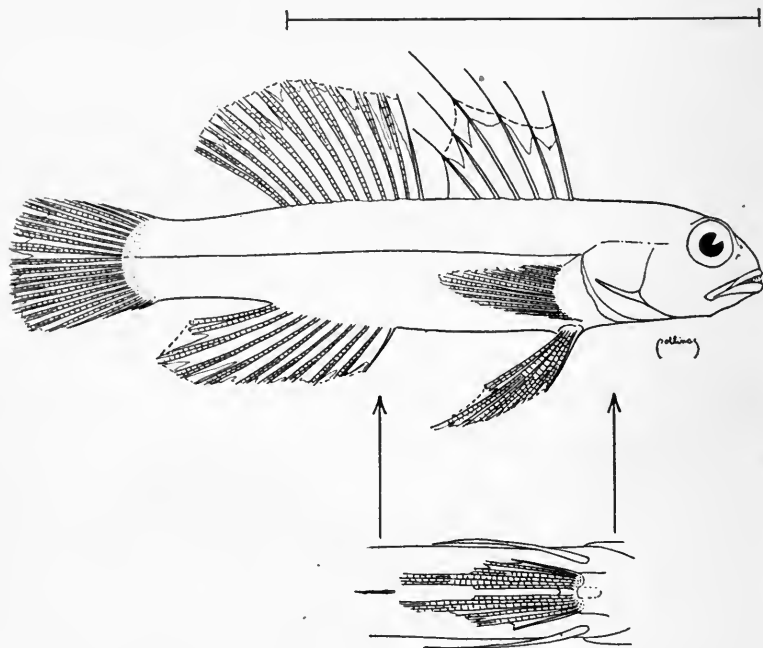
Pap. Mich. Acad. Sci., 7, p. 360, 1927.

Paratypes: 8. California: Point Loma (3), near Carpinteria (2), Bird Rock, San Diego (1), Crescent City (2).

**Gila minacae** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 80, pl. 17, 1902.

Type: No. 3573. Mexico: Miñaca, Rio Paphigochic, Chihuahua.

FIG. 46. *Gladiogobius ensifer* Herre, type. Below, ventral view.**Girardinus garmani** Eigenmann

Bull. U. S. Fish Comm., 22, p. 226, fig. 5, 1902 (1904).

= *Girardinus metallicus* Poey

Paratype: Cuba: Palacios.

**Gladiogobius ensifer** Herre. Figure 46.

Copeia, 1933, p. 23, 1933.

Type: No. 17412. Waigiu Island.

Scales missing.

**Glandulocauda melanogenys** Eigenmann

Ann. Carnegie Mus., 8, p. 168, pl. 5, 1911.

Paratypes: 2. Brazil: Alto da Serra.

**Glaridichthys falcatus** Eigenmann

Bull. U. S. Fish Comm., 22, p. 224, fig., 1902 (1904).

Paratypes: 3. Cuba: Pinar del Rio (1), Palacios (1), San Cristóbal (1).

**Glossogobius koragensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 419, 1935.

= *Glossogobius giuris* Hamilton-Buchanan

Type: No. 17365. New Guinea: Koragu, Sepik River.

Paratype: New Guinea: Ambot, Kerame River.

**Glyphidodon troscheli** Gill

Proc. Acad. Nat. Sci. Phila., 1862, p. 150, 1863.

Paratype: Lower California: Cape San Lucas.

**Glyptothorax housei** Herre

Stanf. Ichth. Bull., 2, fig. 1, 1942.

Paratypes: 3. South India: Anamallai Hills.

**Gnathodentex oculo-maculatus** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 7, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 407, 1935.

Type: No. 17335. Solomon Islands: Tenibuli, Ysabel Island.

Paratype: Same locality.

**Gnatholepis corlettei** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 14, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 418, 1935.

= *Acentrogobius cauerensis* Bleeker

Type: No. 17367. New Hebrides: Bushman's Bay, Malekula Island.

Paratypes: 3. Same locality.

**Gnatholepis knighti** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 204, 1902 (1904).

= *Acentrogobius cauerensis* Bleeker

Paratypes: 5. Island of Hawaii: Hilo.

**Gobiesox costaricensis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 74, 1912.

= *Gobiesox cephalus* Lacépède

Type: No. 7677. Costa Rica: Zent.

Paratypes: 5. Costa Rica: Zent (2), Parismina (1), Turrubares (2).

Published type number (7577) a misprint.

The Parismina specimen is part of the type lot, although it was not mentioned by Meek in his original description.

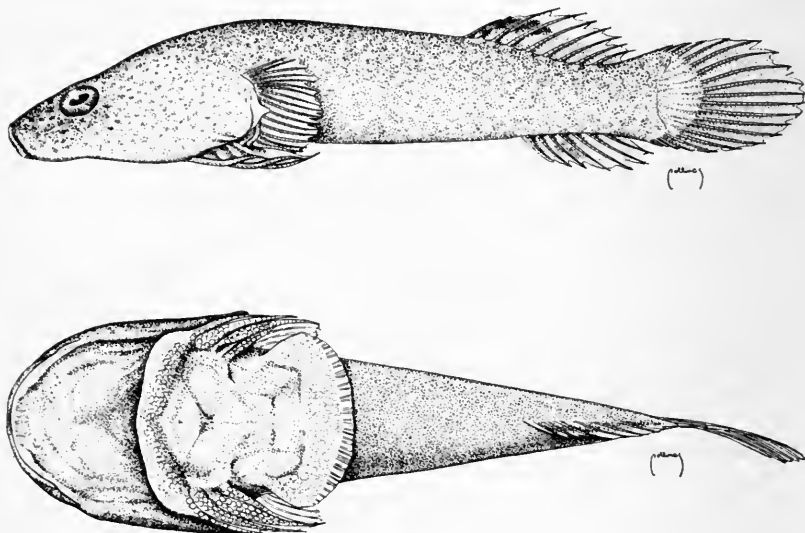


FIG. 47. *Gobiesox fulvus* Meek, type.

***Gobiesox fulvus* Meek. Figure 47.**

Field Mus. Nat. Hist., Zool. Ser., 7, p. 149, 1907.

Type: No. 6035. Cocos Island.

Somewhat shriveled.

***Gobiesox paradiseus* Herre**

Field Mus. Nat. Hist., Zool. Ser., 18, p. 432, 1935.

= *Arcos poecilophthalmus* Jenyns

Type: No. 17404. Galapagos Islands: Eden Island.

***Gobio coriparoides* Nichols**

Amer. Mus. Nov., No. 181, p. 4, 1925.

Paratypes: 2. China: Chin-ssu, Shansi.

**Gobio rivuloides** Nichols

Amer. Mus. Nov., No. 181, p. 5, 1925.

Paratypes: 3. China: Niang-tze-kwan, Shansi.

**Gobio soldatovi minus** Nichols

Amer. Mus. Nov., No. 181, p. 3, 1925.

Paratypes: 4. China: Kweihwa, Shansi.

**Gobius claytonii** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 121, pl. 31, 1902.

=*Gobionellus claytonii* Meek

Type: No. 3740. Mexico: Rio San Francisco, La Antigua, Vera Cruz.

Paratypes: 9. Same locality.

**Gobius cliffordpopei** Nichols

Amer. Mus. Nov., No. 185, p. 5, 1925.

=*Rhinogobius cliffordpopei* Nichols

Paratypes: 4. China: Tungting Lake, Hunan.

**Gobius parvus** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 121, pl. 31, 1902.

=*Evorthodus lyricus* Girard

Type: No. 3738. Mexico: Rio San Francisco, La Antigua, Vera Cruz.

Paratypes: 29. Same locality.

**Goodea captiva** Hubbs

Occ. Pap. Mus. Zool. Univ. Mich., 148, p. 4, 1924.

=*Xenopherus captiva* Hubbs

Type: No. 5557. Mexico: Jesús María, San Luis Potosí.

Paratypes: 178. Same locality.

**Goodea toweri** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 138, fig. 41, 1904.

=*Ataeniobius toweri* Meek

Type: No. 4519. Mexico: Rio Verde, San Luis Potosí.

Paratypes: 24. Same locality.

**Goodea whitei** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 137, fig. 40, 1904.

=*Balsadichthys whitei* Meek

Type: No. 4547. Mexico: Yautepec, Morelos.

Paratypes: 403. Mexico: Yautepec (257), Cuautla (146).

**Gymnothorax efatensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 384, 1935.

Type: No. 17193. New Hebrides: Vila, Efate Island.

Condition bad.

**Halichoeres fijiensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 410, 1935.

Type: No. 17341. Fiji Islands: Ovalau Island.

Paratypes: 3. Same locality.

**Hemibrycon dariensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 285, pl. 20, 1916.

Type: No. 8947. Panama: Rio Yape, Rio Tuyra basin.

Paratypes: 28. Panama: Rio Yape (6), Rio Grande (9), Rio Capetí (1), Rio Satigante (1), Rio Tuyra (6), Rio Cupe (2), Rio Aruza (3).

**Hemicarax rhomboides** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 345, pl. 25, 1925.

Paratype: Panama: Fox Bay, Colón.

**Hemiculterella engraulis** Nichols

Amer. Mus. Nov., No. 182, p. 7, 1925.

Paratypes: 2. China: Tungting Lake, Hunan.

**Hemidoras microstomus** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 394, 1910 (nomen nudum);

Mem. Carnegie Mus., 5, p. 193, pl. 18, 1912.

Paratype: British Guiana: Crab Falls, Essequibo River.

**Hemieleotris.** See *Eleotris*.

**Hemigrammus analis** Durbin

Ann. Carnegie Mus., 6, p. 64, 1909.

Paratypes: 2. British Guiana: Gluck Island, Essequibo River (1), Rockstone, Essequibo River (1).

**Hemigrammus compressus** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 87, fig. 25, 1904.

= *Hyphessobrycon compressus* Meek



Type: No. 4641. Mexico: Rio Papaloapan, El Hule, Oaxaca.

Paratypes: 34. Mexico: El Hule (23), Obispo (11).

**Hemigrammus cylindricus** Durbin

Ann. Carnegie Mus., 6, p. 62, 1909.

Paratype: British Guiana: Tumatumari, lower Potaro River.

**Hemigrammus erythrozonus** Durbin

Ann. Carnegie Mus., 6, p. 56, 1909.

Paratypes: 2. British Guiana: Erukin, lower Potaro River.

**Hemigrammus iota** Durbin

Ann. Carnegie Mus., 6, p. 60, 1909.

Paratype: British Guiana: Gluck Island, Essequibo River.

**Hemigrammus micropterus** Meek

in Eigenmann and Ogle, Proc. U. S. Nat. Mus., 33, p. 13, 1908.

Although Eigenmann and Ogle state that this species is based on "specimens collected by Dr. O. Riddle at Los Castillas, on the Orinoco, and now in the collections of the Indiana University and of the Field Museum," we have been unable to find any specimens here, nor are they entered in our catalogue. The type, which was given an Indiana number by Dr. Eigenmann, is now in the California Academy of Sciences. These fishes were part of a lot purchased from Dr. Riddle by Field Museum in 1902. There is no record showing that any of the specimens were either lent or exchanged to Dr. Eigenmann, although they must have been in his hands either prior to the 1908 publication, or between that time and 1918, when he again published data on the species (Mem. Mus. Comp. Zool., 43, pt. 2, p. 150). (See *Hemigrammus riddlei* and *Holopristes riddlei*.)

**Hemigrammus minutus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 67, 1912.

= *Hyphessobrycon panamensis* Durbin

Paratypes: 72. Canal Zone and Panama: Rio Agua Clara (33), Rio Mandingo (1), Toro Point (1), Largateria Creek (3), Rio Indio (15), Rio Frijoles (16), Gatun (3).

Type specimen, No. 7572, cannot be determined. Type locality Rio Agua Clara.

**Hemigrammus orthus** Durbin

Ann. Carnegie Mus., 6, p. 61, 1909.

Paratype: British Guiana: Tukeit.

**Hemigrammus riddlei** Meek

in Eigenmann and Ogle, Proc. U. S. Nat. Mus., 33, p. 13, 1908. \*

= *Hyphessobrycon riddlei* Meek

The type specimen of this species, evidently unique, must be considered lost. Although Eigenmann and Ogle state that the specimen was in this Museum, it was never entered in our catalogue and cannot be found here now, nor is it with the Indiana University collection in the California Academy of Sciences. The fish was part of the Riddle collection from Los Castillos, Venezuela, and was evidently in Dr. Eigenmann's hands at one time, along with the specimens of *Hemigrammus micropterus* and *Holopristes riddlei* (q.v.).

**Hemigrammus rodwayi** Durbin

Ann. Carnegie Mus., 6, p. 58, 1909.

Paratypes: 10. British Guiana: Georgetown Trenches.

**Hemipimelodus papillifer** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 390, 1935.

Type: No. 17211. New Guinea: Timbunke, Sepik River.

Paratype: Same locality.

In the original description Herre says that the type is from Timbunke and the paratype from Marienberg, on the Sepik River.

Skin of both specimens slightly torn in spots; paratype rather shriveled.

**Hemipteronotus baldwini** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 192, 1902 (1904).

= *Hemipteronotus melanopus* Bleeker

Paratypes: 2. Hawaiian Islands: Honolulu.

**Hepsetia**. See **Atherina**.**Heros beani** Jordan

Proc. U. S. Nat. Mus., 11, p. 332, 1888.

= *Cichlasoma beani* Jordan

Paratype: Mexico: Rio Presidio, Sinaloa.

**Heterandria cubensis** Eigenmann

Bull. U. S. Fish Comm., 22, p. 227, fig. 8, 1902 (1904).

= *Allodontium cubense* Eigenmann

Paratype: Cuba: Pinar del Rio.

**Heterandria lutzi** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 106, pl. 20, 1902.

= *Poecilistes pleurospilus* Günther

Type: No. 3718. Mexico: Rio Quiotepec, Cuicatlán, Oaxaca.

Paratypes: 477. Mexico: Cuicatlán (225), Oaxaca (200), Venta Salada (52).

**Heterogramma ortmanni** Eigenmann

Mem. Carnegie Mus., 5, p. 506, pl. 68, 1912.

Paratypes: 2. British Guiana: Erukin Creek, lower Potaro River.

**Hippocampus brunneus** Bean

Proc. Biol. Soc. Wash., 19, p. 32, 1906.

= *Hippocampus punctulatus* Guichenot

Type: No. 5494. Bermuda: Long Bird Island.

**Hippocampus fisheri** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 169, 1902 (1904).

= *Hippocampus kuda* Bleeker

Paratype: Island of Hawaii: Hilo.

Condition not good.

**Holocentrus.** See also **Flammeo.**

**Holocentrus ensifer** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 176, 1902 (1904).

= *Holocentrus furcatus* Günther

Paratype: Hawaiian Islands: Honolulu.

**Holocentrus meeki** Bean

Proc. Biol. Soc. Wash., 19, p. 31, 1906.

= *Holocentrus ascensionus* Osbeck

Cotypes: 2. Bermuda: Hayward's Bay, St. David's Island.

Smaller specimen, 72 mm. standard length, chosen as lectotype, since the larger one is broken through the center.

**Holocentrus xantherythrus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 175, 1902 (1904).

Paratypes: 2. Hawaiian Islands.

Published number (3951) an error. Specimens catalogued as Nos. 4190 and 4191.

**Hololepis saludae** Hubbs and Cannon

Mus. Zool. Univ. Mich. Misc. Publ., **30**, p. 50, pl. 1, 1935.

Paratype: South Carolina: Richland Creek, Saluda County.

**Holopristes riddlei** Meek

in Eigenmann and Ogle, Proc. U. S. Nat. Mus., **33**, p. 11, 1908.

= *Pristella riddlei* Meek

Paratypes: 3. Venezuela: Los Castillos.

Eigenmann and Ogle state that this species is based on "a specimen collected by Dr. Oscar Riddle at Los Castillos, Venezuela, and now in the collection of the Field Columbian Museum." In 1918 (Mem. Mus. Comp. Zool., **43**, pt. 2, p. 130) Eigenmann assigned an Indiana University number to the type and stated that there were four paratypes in our museum. Neither type nor paratypes were here, nor were they entered in our catalogue until Dr. W. M. Chapman found them with the Indiana collection at the California Academy of Sciences. He returned to Field Museum the three paratypes listed above. (See *Hemigrammus micropterus* and *Hemigrammus riddlei*.)

**Hoplosternum punctatum** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., **10**, p. 264, pls. 14, 15, 1916.

= *Hoplosternum thoracatum magdalenae* Eigenmann

Type: No. 8943. Panama: Rio Marte Arnade, six miles east of Panama City.

Paratype: Same locality.

**Hybognathus hankinsoni** Hubbs.

in Jordan, Manual of Vert. Anim. of N. E. United States, p. 88, 1929.

Paratypes: 13. Iowa: Indian Creek (8), Lizard Creek (3), Des Moines River (1). Ontario: Bala (1).

**Hypheosobrycon.** See also *Hemigrammus*.

**Hypheosobrycon bifasciatus** Ellis

Ann. Carnegie Mus., **8**, p. 156, pls. 2, 3, 1911.

Paratypes: 5. Brazil: São João da Barra.

**Hypheosobrycon ecuadoriensis** Eigenmann and Henn

Indiana Univ. Stud., **19**, p. 9, 1914.

Paratypes: 24. Ecuador: Vinces.

**Hypheosobrycon eos** Durbin

Ann. Carnegie Mus., **6**, p. 69, 1909.

Paratypes: 3. British Guiana: Tukeit, lower Potaro River (2), creek between Potaro Landing and Kangaruma (1).

**Hypheosobrycon rosaceus** Durbin

Ann. Carnegie Mus., 6, p. 67, 1909.

Paratypes: 2. British Guiana: Gluck Island, Essequibo River.

**Hypheosobrycon stictus** Durbin

Ann. Carnegie Mus., 6, p. 71, 1909.

Paratypes: 7. British Guiana: Maduni Creek (5), Lama stop-off (2).

**Hypheosobrycon taurocephalus** Ellis

Ann. Carnegie Mus., 8, p. 151, pl. 1, 1912.

Paratypes: 3. Brazil: Serrinha Paraná.

**Hyporhamphus hildebrandi** Jordan and Evermann

Proc. Calif. Acad. Sci., 16, p. 503, 1927; Weed, Field Mus. Nat. Hist., Zool. Ser., 20, p. 60, fig. 2, 1933.

= *Hyporhamphus roberti* Cuvier and Valenciennes

Cotypes: 7. Panama: Fox Bay, Colón.

Lectotype No. 8260, selected by Weed (1933).

Beak of one specimen broken.

**Hyporhamphus snyderi** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 240, pl. 17, 1923.

Paratypes: 2. Panama: Chame Point.

One specimen with broken beak-tip.

**Hypsoblennius lignus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 946, pl. 96, 1928.

Paratype: Panama: Chame Point.

**Ichthyomyzon unicuspis** Hubbs and Trautman

Mus. Zool. Univ. Mich. Misc. Publ., 35, p. 53, pls. 1, 2, 1937.

Paratypes: 8. Illinois: Jackson Park lagoon, Chicago (1), Meredosia (3). Ohio: Sandusky Bay (4).

**Ilisha argentata** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 190, pl. 9, 1923.

Paratypes: 16. Panama and Canal Zone: Fox Bay, Colón (4), Colón Market (7), Colón Reef (3), Toro Point (1), Mindi Reef (1).

Scales partly missing; several specimens shriveled.

**Iridio decoratus** Bean

Proc. Biol. Soc. Wash., 19, p. 29, 1906.

=*Halichoeres garnoti* Cuvier and Valenciennes

Cotypes: 2. Bermuda: Nonsuch Island.

Lectotype No. 5128, 92 mm. total length, 79 mm. standard length.

**Iridio elegans** Bean

Proc. Biol. Soc. Wash., 19, p. 30, 1906.

=*Halichoeres radiatus* Linnaeus

Cotypes: 4. Bermuda: Castle Harbor, Nonsuch Island (1), Jones Bay, Cooper's Island (3).

Lectotype No. 5129, from Castle Harbor, measures 104 mm. total length, 85 mm. standard length.

**Iridio meyeri** Bean

Proc. Biol. Soc. Wash., 19, p. 29, 1906.

=*Halichoeres maculipinna* Müller and Troschel

Type: No. 4938. Bermuda: Nonsuch Island.

**Iridio microstomus** Bean

Proc. Biol. Soc. Wash., 19, p. 30, 1906.

=*Halichoeres maculipinna* Müller and Troschel

Type: No. 5138. Bermuda: Nonsuch Island.

**Ischnomembras gabunensis** Fowler

Proc. Acad. Nat. Sci. Phila., 55, p. 731, pl. 42, 1904.

=*Menidia beryllina beryllina* Cope

Paratype: West Africa: Gabun River.

Specimen very soft.

**Kuhlia bilunulata** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 404, 1935.

Type: No. 17313. Fiji Islands: river flowing into Suva Harbor, Viti Levu Island.

Paratypes: 9. Same locality.

**Labrisomus lentiginosus** Bean

Proc. Biol. Soc. Wash., 19, p. 30, 1906.

=*Labrisomus nuchipinnis* Quoy and Gaimard

Type: No. 5142. Bermuda: tide pool at Doe's Rock, Paget Parish.

**Lampanyctus micropunctatus** Chapman

Proc. U. S. Nat. Mus., 86, p. 527, fig. 66, 1939.

Paratype: North Pacific: Washington.

**Lasiancistrus.** See **Ancistrus.**

**Lepidaplois strophodes** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 190, 1902 (1904).

= *Lepidaplois bilunulatus* Lacépède

Paratype: Hawaiian Islands: Honolulu.

**Lepomis occidentalis** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 118, pl. 29, 1902.

= *Xenotis occidentalis* Meek

Type: No. 3560. Mexico: Rio Conchos, Jiménez, Chihuahua.

Paratypes: 28. Mexico: Jiménez (27), Rio Noavaca, Santa Rosalía (1).

Published type number (3660) an error.

**Leporinus alternus** Eigenmann

Mem. Carnegie Mus., 5, p. 307, 1912.

Paratype: British Guiana: Bartica.

**Leporinus ecuadoriensis** Eigenmann and Henn

Ann. Carnegie Mus., 10, p. 88, 1916.

Paratypes: 4. Ecuador: Vices.

**Leporinus granti** Eigenmann

Mem. Carnegie Mus., 5, p. 307, pl. 43, 1912.

Paratype: British Guiana: Maripicru Creek, between Wontyke and Karakara.

**Leptoancistrus.** See **Acanthicus.**

**Leptocottus armatus australis** Hubbs

Occ. Pap. Mus. Zool. Univ. Mich., 94, p. 5, 1921.

Paratypes: 64. California: Morro Bay (12), Ventura River (3), Santa Inez River mouth (9), Chorro Creek (1), El Estero near Carpinteria (27), Morro Creek (3), Avila (1), San Diego Bay (4), Santa Barbara (1), Goleta (3).

Most of the specimens are in good condition.

**Leptodoras linnelli** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 395, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 191, pls. 17, 18, 1912.

Paratype: British Guiana: Tumatumari, lower Potaro River.

**Leptoglanis essequibensis** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 384, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 158, pl. 13, 1912.

Paratype: British Guiana: Warraputa Falls, Essequibo River.

**Leptophilypnus.** See **Microeleotris**.

**Leptophilypnus fluviatilis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 361, 1916.

Type: No. 8952. Canal Zone: creek at Mindi.

Paratypes: 20. Same locality.

**Lermichthys.** See **Characodon**.

**Leucichthys alpenae** Koelz

Occ. Pap. Mus. Zool. Univ. Mich., 146, p. 1, 1924.

Paratypes: 2. Michigan: Lake Michigan at Charlevoix (1), at Northport (1).

One specimen in bad condition.

**Leucichthys kiyi** Koelz

Occ. Pap. Mus. Zool. Univ. Mich., 104, p. 1, 1921.

Paratypes: 2. Michigan: Lake Michigan at Ludington.

Not in good condition.

**Leucichthys reighardi** Koelz

Occ. Pap. Mus. Zool. Univ. Mich., 146, p. 5, 1924.

Paratypes: 2. Wisconsin: Lake Michigan at Sheboygan (1). Indiana: Lake Michigan at Michigan City (1).

Condition bad.

**Leuciscus carletoni** Kendall

Bull. U. S. Fish Comm., 22, p. 357, fig. 1, 1903.

Paratypes: 8. Maine: East Branch, Penobscot River.



**Leucogobio polytaenia** Nichols

Amer. Mus. Nov., No. 181, p. 6, 1925.

Paratypes: 3. China: Niang-tze-kwan, Shansi.

**Liobagrus anguillicauda** Nichols

Amer. Mus. Nov., No. 224, p. 1, fig. 1, 1926.

Paratypes: 2. China: Chungan Hsien, Fukien.

**Lionurus.** See **Optonurus.****Lithoxus lithoides** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 412, 1910 (nomen nudum);

Mem. Carnegie Mus., 5, p. 242, pl. 29, 1912.

Paratypes: 3. British Guiana: Amatuk, lower Potaro River.

**Loricaria capetensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 80, 1913.

Type: No. 7582. Panama: Rio Capetí.

**Loricaria griseus** Eigenmann

Ann. Carnegie Mus., 6, p. 8, 1909.

=*Loricariichthys griseus* Eigenmann

Paratype: British Guiana: Bartica, Essequibo River.

**Loricaria gymnogaster lagoichthys** Schultz

Proc. U. S. Nat. Mus., 94, p. 331, pl. 13, 1944.

Paratypes: 5. Venezuela: Maracaibo Basin.

**Loricaria stewarti** Eigenmann

Ann. Carnegie Mus., 6, p. 9, 1909.

=*Loricariichthys stewarti* Eigenmann

Paratype: British Guiana: Chipoo Creek, tributary of Ireng River, between Karakara and Rupununi.

**Loricaria tuyrensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 81, 1913.

=*Loricaria filamentosa* Steindachner

Type: No. 7583. Panama: Rio Tuyra, Boca de Cupe, Darien.

Paratypes: 7. Same locality.

**Loricaria uracantha rupestre** SchultzProc. U. S. Nat. Mus., **94**, p. 325, pl. 12, A, B, 1944.

Paratypes: 5. Venezuela: Maracaibo Basin.

**Loricaria variegata venezuelae** SchultzProc. U. S. Nat. Mus., **94**, p. 329, pl. 12, C, 1944.

Paratypes: 5. Venezuela: Maracaibo Basin.

**Lumpenus longirostris** Evermann and GoldsboroughBull. Bur. Fish., **26**, p. 340, 1907.=*Lumpenella longirostris* Evermann and Goldsborough

Paratypes: 2. Alaska: Albatross Station 4252.

**Macgregorella badia** HerreField Mus. Nat. Hist., Zool. Ser., **18**, p. 415, 1935.=*Callogobius hasseltii* Bleeker

Type: No. 17373. Fiji Islands: Ovalau Island.

There are two specimens from Waigiu Island, also collected by the Crane Pacific Expedition but not mentioned in Herre's original description.

**Macgregorella santa** HerreJour. Pan-Pac. Res. Inst., **6**, pp. 8, 14, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., **18**, p. 416, 1935.=*Callogobius liolepis* (Bleeker MS.) Koumans

Type: No. 17374. New Hebrides: Hog Harbor, Espiritu Santo Island.

Paratypes: 7. New Hebrides: Espiritu Santo Island (4), Malekula Island (3).

**Malacoptenus puertoricensis** Evermann and MarshRept. U. S. Fish Comm., **1899**, p. 358, 1900.

Paratypes: 2. Puerto Rico: Culebra.

**Megalonema punctatum** Meek and Hildebrand. Figure 48.Field Mus. Nat. Hist., Zool. Ser., **10**, p. 77, 1913.=*Pimelodus clarias punctatus* Meek and Hildebrand

Type: No. 7577. Panama: Rio Tuyra, Boca de Cupe, Darien.

Rio Tuyra, Boca de Cupe, is the type locality published in the original description. In *The Fishes of the Fresh Waters of Panama* (1916) the authors give Rio Tuyra, Marriganti, Panama, as type locality.

**Megalonema robustum** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 78, 1913.

= *Pimelodus clarias punctatus* Meek and Hildebrand

Type: No. 7578. Panama: Rio Tuyra, Marriganti, Darien.

Paratypes: 3. Panama, Rio Tuyra: Marriganti (2), Boca de Cupe (1).

One of the Marriganti paratypes is in very bad condition, the other rather shriveled.

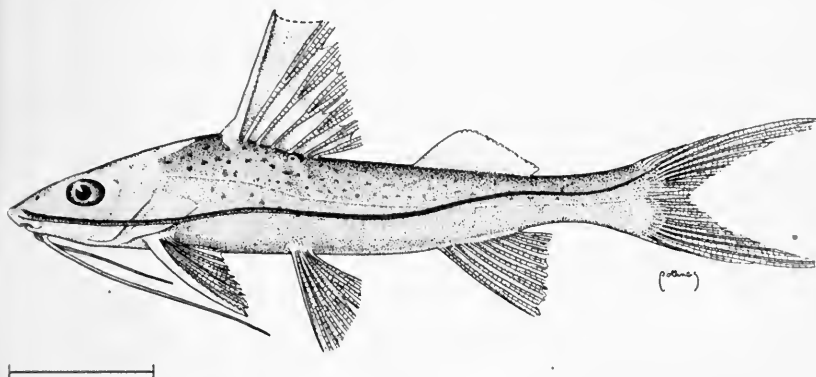


FIG. 48. *Megalonema punctatum* Meek and Hildebrand, type.

**Megalonema xanthum** Eigenmann

Indiana Univ. Stud., 8, p. 16, 1912.

= *Perugia xanthus* Eigenmann

Paratypes: 7. Colombia: Apulo.

A few specimens slightly shriveled.

**Melaniris balsanus** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 117, pl. 28, 1902.

= *Thyrina balsana* Meek

Type: No. 3706. Mexico: Rio Balsas, Balsas.

Paratypes: 100. Same locality.

**Melaniris sardina** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 114, 1907.

= *Thyrina sardina* Meek

Type: No. 5937. Nicaragua: Lake Managua, Managua.

Paratypes: 309. Nicaragua: Managua (300), Momotombo (8), Cisplaya (1).

**Melanorhinus.** See **Mugilops.**

**Melanotaenia kabia** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 397, 1935.

Type: No. 17230. New Guinea, Sepik River: Nyaurangai.

Paratypes: 14. New Guinea, Sepik River: Nyaurangai (2), Koragu (12).

**Melanotaenia rosacea** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 398, 1935.

Type: No. 17245. New Guinea, Sepik River: Koragu.

Paratypes: 19. New Guinea, Sepik River: Koragu (15), Nyaurangai (4).

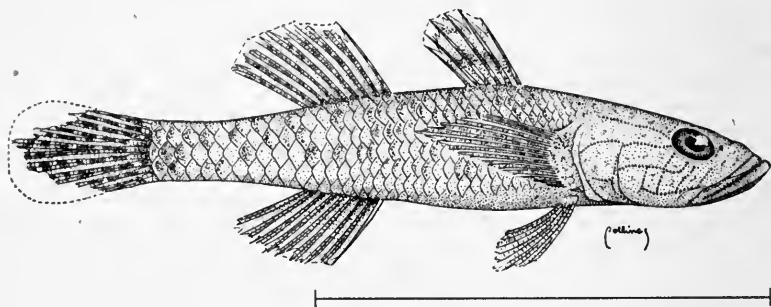


FIG. 49. *Microleotris panamensis* Meek and Hildebrand. Body drawn from type, head from paratype.

**Menidia chagresi** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 119, 1914.

= *Thyrina chagresi* Meek and Hildebrand

Paratypes: 94. Costa Rica: Zent River (29), Victoria (1), Parismina (6). Panama: Rio Boquerón (8), Rio Chagres (24), Rio Pequeni (1), Rio Gatunocello (3), Rio Cascajal (22).

Although not mentioned in the original description, or in *The Marine Fishes of Panama* (1923), the specimens from Victoria, Costa Rica, and from Rio Pequeni, Panama, appear to have been part of the type lot.

**Menidia lisa** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 182, fig. 63, 1904.

= *Xenatherina lisa* Meek

Type: No. 4633. Mexico: Refugio, Vera Cruz.

Paratypes: 51. Mexico: Refugio (46), El Hule (5).

**Menidia peninsulae atrimentatus** Kendall

Rept. U. S. Fish Comm., 1901, p. 241, fig., 1902.

Paratypes: 5. Florida: Lake Monroe.

**Menidia starksi** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 267, pl. 20, 1923.

Paratypes: 4. Panama: Taboga Island.

**Microeleotris mindii** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 364, 1916.

= *Leptophilypnus fluviatilis* Meek and Hildebrand

Type: No. 8954. Canal Zone: creek at Mindi.

Paratypes: 25. Canal Zone: creek at Mindi (20), Mindi Cut (5).

**Microeleotris panamensis** Meek and Hildebrand. Figure 49.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 363, 1916.

= *Leptophilypnus panamensis* Meek and Hildebrand

Type: No. 8953. Panama: Rio Juan Diaz.

Paratypes: 18. Panama: Rio Juan Diaz (10), Rio Chorrera (8).

This species has been found to be identical with *Eleotris macrolepis* Meek (*q.v.*), but since that name has been preoccupied by Bleeker, we are using *panamensis* as a substitute for it.

Type badly shrunken.

**Microglanis iheringi** Gomes

Occ. Pap. Mus. Zool. Univ. Mich., 494, p. 9, 1946.

Type: No. 35350. Venezuela: Tumero River.

Paratypes: 2. Same locality.

**Micrognathus suvensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 396, 1935.

Type: No. 17229. Fiji Islands: Suva Harbor, Viti Levu Island.

**Micropoecilia.** See **Acanthocephalus.****Micropterus pseudaplites** Hubbs

Occ. Pap. Mus. Zool. Univ. Mich., 184, p. 8, pl. 1, 1927.

= *Micropterus punctulatus punctulatus* Rafinesque

Paratypes: 13. Arkansas: Clarksville (2), Marked Tree (1), Fort Smith (2), Greenway (3). Texas: Houston (3). Kentucky: Boothe (2).

**Mionorus pacificus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 403, 1935.

Type: No. 17311. Galapagos Islands: Tagus Cove, Albemarle Island.

Paratype: Same locality.

Type soft and somewhat torn; paratype with posterior half of body almost broken off.

**Misgurnus anguillicaudatus tungting** Nichols

Amer. Mus. Nov., No. 169, p. 3, 1925.

Paratypes: 2. China: Tungting Lake, Hunan.

**Misgurnus mizolepis fukien** Nichols

Amer. Mus. Nov., No. 169, p. 4, 1925.

Paratype: China: Fukien.

**Misgurnus mizolepis grangeri** Nichols

Amer. Mus. Nov., No. 169, p. 5, 1925.

Paratypes: 2. China: Szechwan.

**Misgurnus mohoity yunnan** Nichols

Amer. Mus. Nov., No. 169, p. 5, 1925.

Paratype: China: Yunnan.

**Moenkhausia browni** Eigenmann

Ann. Carnegie Mus., 6, p. 13, 1909.

Paratypes: 5. British Guiana, Potaro River: Savannah Landing (2), Holmia (2), Tukeit (1).

**Mollienisia.** See **Platypoecilus.**

**Monacanthus tuckeri** Bean

Proc. Biol. Soc. Wash., 19, p. 33, 1906.

Cotypes: 3. Bermuda: the Flatts (1), Well Bay (1), Long Bay, Somerset (1).

No. 5183 from the Flatts is the lectotype. Total length 57 mm.; 47 mm. to base of caudal.

**Mugilops cyanellus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 271, pl. 22, 1923.

= *Melanorhinus cyanellus* Meek and Hildebrand

Paratypes: 2. Canal Zone: Balboa (1). Panama: Taboga Island (1).

**Mulloides flammeus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 186, 1902 (1904).

= *Mulloides samoensis* Günther

F.M.N.H. No. 3953, published by Jordan and Evermann in their list of "cotypes," is entered in our catalogue as a different species. Neither the specimen nor a catalogue entry for it has been found.

**Mylosoma ocellatum** Eigenmann

Ann. Carnegie Mus., 9, p. 265, 1914.

Paratypes: 2. Paraguay: Villa Hays.

**Myoglanis potaroensis** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 384, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 159, pl. 14, 1912.

Paratype: British Guiana: Tukeit, lower Potaro River.

**Myripristis argyromus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 172, 1902 (1904).

Paratype: Hawaiian Islands: Honolulu.

**Myripristis berndti** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 170, 1902 (1904).

= *Myripristis murdjan* Forskål

Paratype: Hawaiian Islands: Honolulu.

**Myripristis chryseres** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 171, 1902 (1904).

Paratype: Hawaiian Islands: Hilo.

**Myripristis mooreanus** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 10, 1931 (nomen nudum); Field Mus. Nat.  
Hist., Zool. Ser., 18, p. 394, 1935.

Type: No. 17225. Society Islands: Moorea Island.

Paratypes: 2. Same locality.

**Myripristis symmetricus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 173, 1902 (1904).

= *Myripristis prasinus* Cuvier

Paratype: Hawaiian Islands: Honolulu.

**Myripristis undecimalis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 393, 1935.

Type: No. 17228. Tuamotu Islands: Takaroa Island.

**Nannostomus marginatus** Eigenmann

Ann. Carnegie Mus., 6, p. 41, 1909.

Paratype: British Guiana: Gluck Island, Essequibo River.

**Neotroplus fluviatilis** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 74, 1912.

Type: No. 7685. Costa Rica: Costa Rica River, Guapilis.

Paratype: Same locality.

The published type number (7585) is a misprint.

**Neotroplus panamensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 90, 1913.

Type: No. 7601. Canal Zone: Rio Mandingo, Bas Obispo.

Paratypes: 20. Canal Zone and Panama: Rio Mandingo (5), upper Chagres (2), Rio Indio (2), Rio Pequeni (1), Rio Gatunocello (1), Reservoir Creek (9).

**Neophorus.** See **Zoogoneticus.****Nesiotes purpurascens** De Vis

Proc. Linn. Soc. N. S. Wales, 8, p. 453, 1883-84; Herre, Field Mus. Nat. Hist., Zool. Ser., 21, p. 165, fig. 8, 1936.

Neotype: No. 17340. New Hebrides: Vila, Efaté Island.

Specimen has one rather soft area, and skin is slightly damaged in two places.

**Nototropis forlonensis** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 70, fig. 20, 1904.

= *Notropis forlonensis* Meek

Type: No. 4478. Mexico: Forlón.

Paratypes: 28. Mexico: Forlón (25), Valles (3).



**Nototropis nazas** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 70, fig. 19, 1904.

= *Notropis nazas* Meek

Type: No. 4375. Mexico: Rio Nazas, Santiago Papasquiario, Durango.

Paratypes: 133. Same locality.

**Notropis.** See also **Alburnops.**

**Notropis aztecus** Woolman

Bull. U. S. Fish Comm., 14, p. 63, pl. 2, 1894.

= *Aztecula vittata* Girard

Cotypes: 11. Mexico: Mexico City.

**Notropis chihuahua** Woolman

Amer. Nat., March, 1892, p. 260; Bull. U. S. Fish Comm., 14, p. 58, 1894.

Cotype: Mexico: Rio de los Conchos, Chihuahua.

**Notropis greenei** Hubbs and Ortenberger

Publ. Univ. Okla. Biol. Surv., 1, p. 78, 1929.

Paratypes: 37. Arkansas: Kinderhook.

**Notropis muskoka** Meek

Field Mus. Nat. Hist., Zool. Ser., 1, p. 308, 1899.

Type: No. 2964. Canada: Gull Lake, Gravenhurst, Ontario.

Paratypes: 20. Same locality.

**Notropis robustus** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 82, pl. 19, 1902.

Type: No. 3548. Mexico: Rio Conchos, Jiménez, Chihuahua.

Paratypes: 19. Mexico: Santa Rosalía (3), Jiménez (16).

**Notropis santarosaliae** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 85, pl. 19, 1902.

Type: No. 3535. Mexico: Rio Nonava, Santa Rosalía, Chihuahua.

Paratypes: 17. Same locality.

**Novumbra hubbsi** Schultz

Publ. Univ. Wash. Coll. Fish., 2, p. 4, pl. 2, 1929.

Paratype: Washington: One-half mile west of Satsop.

**Odontognathus compressus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 194, pl. 11, 1923.

Paratypes: 24. Panama: Fox Bay, Colón.

Scales missing.

**Odontorhamphus cancellori** Weed

Field Mus. Nat. Hist., Zool. Ser., 20, p. 52, fig. 1, 1933.

Type: No. 16208. Cook Archipelago: Aitutaki Island.

**Ophioscion punctatissimus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 644, pl. 68, 1925.

Paratypes: 2. Panama: Colón Market (1). Canal Zone: Toro Point (1).

**Optonurus atherodon** Gilbert and Cramer

Proc. U. S. Nat. Mus., 19, p. 431, pl. 46, fig. 1, 1896.

=*Lionurus atherodon* Gilbert and Cramer

Paratype: Hawaiian Islands: Albatross Station 3475, 351 fathoms.

Scales of specimen have fallen.

**Oxyloricaria citurensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 82, 1913.

=*Sturisoma citurensis* Meek and Hildebrand

Type: No. 7585. Panama: Rio Cupe, Cituro, Darien.

Paratypes: 150. Panama: Rio Cupe (92), Rio Mamoni (1), Rio Aruza (8), Rio Yape (34), Rio Tuyra (15).

**Oxyloricaria dariensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 81, 1913.

=*Sturisoma panamensis* Eigenmann and Eigenmann

Paratypes: 39. Panama: Rio Tuyra (20), Rio Yape (2), Rio Cupe (1), Rio Aruza (2), Rio Calobre (1), Rio Capetí (13).

No. 7584, the type specimen, has not been found. Type locality Rio Tuyra, Boca de Cupe, Darien, Panama.

**Panamichthys.** See **Priapichthys.****Pantosteus santa-anae** Snyder

Proc. U. S. Nat. Mus., 34, p. 33, 1908.

Paratypes: 6. California: Santa Ana River, Riverside.

**Paralepis philippinus** Fowler

Proc. Acad. Nat. Sci. Phila., 85, p. 281, fig. 42, 1933 (1934).

Paratypes: 2. Philippine Islands: Leyte.

**Parascolopsis townsendi** Boulenger

Ann. Mag. Nat. Hist., (7), 7, p. 262, pl. 6, 1901.

Paratype: Sea of Oman.

**Parodon dariensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 83, 1913.

= *Apareiodon dariensis* Meek and Hildebrand

Type: No. 7587. Panama: Rio Cupe, Cituro.

Paratype: Same locality.

**Pempheris dispar** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 6, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 407, 1935.

Type: No. 17326. Solomon Islands: Tenibuli, Ysabel Island.

Paratypes: 6. Same locality.

**Perugia.** See *Megalonema*.**Petrosirtes kulambangrae** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 9, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 436, 1935.

Type: No. 17392. Solomon Islands: Kulambangra Island.

Paratypes: 5. Waigiu Island.

In the original description Herre mentions specimens from Manokwari, New Guinea, but not from Waigiu.

**Phallichthys.** See *Poecilia*.**Phanagoniates.** See *Roeboides*.**Phenacogaster franciscoensis** Eigenmann

Ann. Carnegie Mus., 8, p. 173, pl. 6, 1911.

Paratype: Brazil: Barreiras.

**Phenacogaster megalostictus** Eigenmann

Ann. Carnegie Mus., 6, p. 29, 1909.

Paratypes: 3. British Guiana: Tumatumari, lower Potaro River (2),  
Rockstone, Essequibo River (1).

**Pikea aurora** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 178, 1902 (1904).

Paratype: Hawaiian Islands.

The number originally published by Jordan and Evermann (F.M.N.H. No. 3791) is an error. The specimen is catalogued as No. 4248.

**Pimelodella eigenmanni** Meek

Proc. Biol. Soc. Wash., 18, p. 241, 1905.

= *Pimelodella meeki* Eigenmann

Type: No. 3400. Brazil: São Paulo.

Paratypes: 5. Same locality.

Eigenmann (Mem. Carnegie Mus., 7, p. 249, 1917) substituted the name *P. meeki* for this species, *P. eigenmanni* being preoccupied by Boulenger.

The published type number (4000) is an error.

All specimens in bad condition.

**Pimelodella macturkii** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 389, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 170, pl. 16, 1912.

Paratype: British Guiana: Mora Passage.

**Pimelodella megalops** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 389, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 169, pl. 15, 1912.

Paratypes: 2. British Guiana: Tumatumari, lower Potaro River.

**Pimelodus.** See *Megalonema*.

**Pimephales annuli** Kendall

Bull. U. S. Fish Comm., 22, p. 360, fig., 1904.

Paratypes: 15. Maine: Lunkasoos Lake.

**Platyopocilus tropicus** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 146, 1907.

= *Mollienisia sphenops tropica* Meek

Type: No. 6027. Costa Rica: Turrialba.

Paratypes: 2. Same locality.

Type slightly shriveled, belly rather soft.

**Platypoecilus variatus** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 146, pl. 10, 1904.

Type: No. 4501. Mexico: Valles, San Luis Potosí.

Paratypes: 109. Mexico: Valles (10), Garza Valdez (40), Santa Engracia (6), Victoria (24), Forlón (23), Rascón (6).

**Poecilia caudata** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 209, 1909.

= *Mollienisia sphenops tropica* Meek

Type: No. 6360. Costa Rica: Turrubares.

Allotype and paratypes: 10. Costa Rica: Turrubares (1), San José (2), Patarra (7).

**Poecilia latipunctata** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 150, fig. 48, 1904.

Type: No. 4484. Mexico: Forlón, Tamaulipas.

Paratypes: 12. Same locality.

**Poecilia pittieri** Meek

Field Mus. Nat. Hist., Zool. Ser., 10, p. 71, 1912.

= *Phallichthys pittieri* Meek

Type: No. 7680. Costa Rica: Rio Reventazon, La Junta.

Allotype and paratypes: 54. Costa Rica: La Junta (15), Parismina (17), Guapilis (18), Virginia (4).

There is also a paratype of uncertain locality. The published type number (7580) is an error and the specimens from Parismina, Guapilis, and Virginia were probably part of the type lot, although Meek did not mention any localities other than Reventazon in his original description.

**Poecilia tenuis** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 147, 1907.

= *Mollienisia sphenops tropica* Meek

Type: No. 6029. Costa Rica: Tiribi.

Paratypes: 5. Costa Rica: Tiribi (2), Rio Maria Aguilar (2), Chitaria (1).

Although Meek published the type of this species as No. 6028, No. 6029 is hereby designated as type. Both specimens are clearly labeled "type" but No. 6029 measures 64 mm., the length published for the type specimen, whereas No. 6028 is 67 mm. long. All three Tiribi specimens are soft.

The two San José specimens listed in the original description have not been found. The specimen from Chitaria was part of the type lot, although it was not mentioned by Meek.

**Poeciliopsis.** See also **Gambusia.**

**Poeciliopsis balsas** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 16, p. 66, 1926.

Type: No. 3702. Mexico: Balsas, Guerrero.

Paratypes: 97. Mexico: Balsas (23), Cuautla (1), Puente de Ixtla (29), Yautepec (10), Jojutla (27), Chietla (7).

Specimens from Yautepec are in bad condition.

**Poecilobrycon auratus** Eigenmann

Ann. Carnegie Mus., 6, p. 44, 1909.

= *Poecilobrycon trifasciatus* Steindachner

Paratype: British Guiana: Konawaruk.

**Poecilobrycon erythrus** Eigenmann

Ann. Carnegie Mus., 6, p. 44, 1909.

Paratype: British Guiana: Gluck Island, Essequibo River.

**Poecilobrycon ocellatus** Eigenmann

Ann. Carnegie Mus., 6, p. 45, 1909.

Paratypes: 2. British Guiana: Rockstone, Essequibo River.

**Poecilocharax bovalii** Eigenmann

Ann. Carnegie Mus., 6, p. 34, 1909.

Paratype: British Guiana: Savannah Landing, upper Potaro River.

**Polyipnus nuttingii** Gilbert

Bull. U. S. Fish Comm., 23, p. 609, pl. 73, 1903 (1905).

Paratypes: 6. Hawaiian Islands.

**Pomacentrus cranei** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 8, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 409, 1935.

Type: No. 17338. Solomon Islands: Tenibuli, Ysabel Island.

Paratype: Same locality.

**Pomacentrus jenkinsi** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 189, 1902 (1904).

= *Pomacentrus inornatus* De Vis

Paratypes: 3. Hawaiian Islands.

The number published by Jordan and Evermann (F.M.N.H. No. 3959) in their original description is an error. The specimens are entered in our catalogue as Nos. 4257, 4258 and 4259.

**Pomadasis grandis** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 116, 1907.

=*Pomadasis crocro* Cuvier and Valenciennes

Type: No. 5939. Nicaragua: north end of Lake Nicaragua, Granada.

**Pomadasys starri** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 200, pl. 13, 1904.

=*Pomadasis crocro* Cuvier and Valenciennes

Type: No. 4693. Mexico: Perez, Vera Cruz.

**Pomadasys templei** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 201, pl. 14, 1904.

=*Pomadasis crocro* Cuvier and Valenciennes

Type: No. 4504. Mexico: Valles, San Luis Potosí.

Paratypes: 2. Mexico: Perez, Vera Cruz.

**Porichthys myriaster** Hubbs and Schultz

Proc. U. S. Nat. Mus., 86, p. 478, fig. 57b, 1939.

Paratypes: 4. California: off Mira Mar pier.

**Priapella.** See **Gambusia.**

**Priapichthys annectens hesperis** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 13, p. 22, 1924.

Type: No. 14106. Costa Rica: San José.

Paratypes: 630. Costa Rica: San José (572), Pacific side (2), San Isidro (5), Quebradilla (10), Rio Maria Aguilar (39), Tobosi (2).

Two of the San Isidro specimens are somewhat hard and shriveled, the tail of one of the specimens from the Pacific side is broken off at the caudal peduncle, and the Quebradilla and Tobosi specimens are practically worthless. All other specimens are in very good condition.

**Priapichthys fosteri** Hildebrand

Bull. Bur. Fish., 41, p. 260, figs. 14, 15, 1925.

=*Poeciliopsis turrubarensis* Meek

Paratypes: 18. El Salvador, Rio Lempa: San Marcos (6), Suchitoto (12).

**Priapichthys letonai** Hildebrand

Bull. Bur. Fish., 41, p. 258, figs. 12, 13, 1925.

=*Poecilistes pleurospilus* Günther

Paratypes: 31. El Salvador: Rio San Miguel (6), Lake Guija and outlet (6), Rio Acelhuate (8), Rio Sucio (10), Lake Zapotitlan (1).

**Priapichthys olomina** Meek

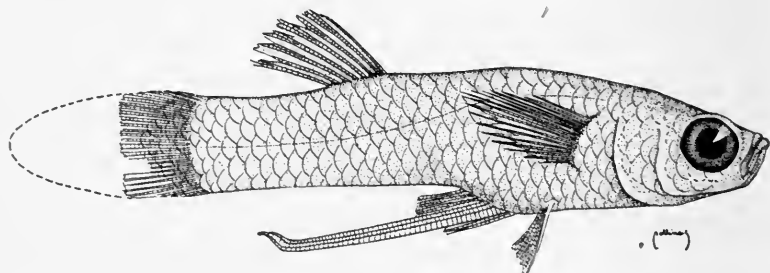
Field Mus. Nat. Hist., Zool. Ser., 10, p. 114, 1914.

=*Brachygraphis olomina* Meek

Type: No. 7827. Costa Rica: Orotina.

Allotype and paratypes: 141. Costa Rica: Orotina (134), Turrubales (3), Pacaca (3), Las Cañas (1).

No. 6227, as well as No. 7827, is entered as type in our catalogue. This specimen, and No. 6228, collected by Alfaro in 1907 at Las Cañas, Alajuela, were probably part of the type lot, although Meek did not mention them in his original description. The sixteen Pacific side specimens that he mentioned have not been found.

FIG. 50. *Priapichthys panamensis* Meek and Hildebrand, type.**Priapichthys panamensis** Meek and Hildebrand. Figure 50.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 322, fig. 8, 1916.

=*Panamichthys panamensis* Meek and Hildebrand

Type: No. 8950. Panama: Chame Point.

Allotype and paratypes: 19. Panama: Chame Point (18), Rio Chame (1).

The statement of Meek and Hildebrand, in the type description, that the insertion of the dorsal fin in the male is "midway between tip of snout and base of caudal" is an error. The origin of the fin is more probably midway between tip of snout and tip of caudal. The caudal fin of the type is broken, and the dotted portion in the figure was drawn from a paratype.



**Prionotus aspersus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 856, pl. 83, 1928.

Paratypes: 3. Panama: Colón Market (1), Fox Bay (1), Porto Bello (1).

**Pristella.** See also **Holopristes.**

**Pristella aubynei** Eigenmann

Ann. Carnegie Mus., 6, p. 24, 1909.

Paratype: British Guiana: Lama stop-off.

**Profundulus.** See also **Fundulus.**

**Profundulus candalarius** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 13, p. 15, 1924.

Type: No. 9071. Guatemala: Candalaria.

Allotype: Same locality.

Both specimens have been cut vertically on one side to straighten them, but their condition is otherwise good.

**Pseudocheiroduon affinis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 275, fig. 3, pl. 18, 1916.

Type: No. 8944. Panama: Rio Gatun, Monte Liria.

Paratypes: 261. Panama and Canal Zone: Rio Gatun (84), Reservoir Creek (17), Largateria Creek (16), Rio Missimbi (11), Rio Indio (1), Rio Yape (1), Rio Aruza (6), Limón Creek (5), Rio Mamoni (63), Rio Calobre (8), Rio Mamoni or Rio Calobre (7), Rio Trinidad (34), Rio Boquerón (8).

The published type number (8941) is an error.

**Pseudogobio chinssuensis** Nichols

Amer. Mus. Nov., No. 214, p. 3, fig. 3, 1926.

Paratype: China: Chin-ssu, Shansi.

**Pseudopimelodus albomarginatus** Eigenmann

Repts. Princeton Univ. Exp. Patagonia, 3, p. 384, 1910 (nomen nudum);  
Mem. Carnegie Mus., 5, p. 153, pl. 11, 1912.

Paratype: British Guiana: Tukeit, lower Potaro River.

Skin somewhat damaged.

**Pseudorasbora altipinna** Nichols

Amer. Mus. Nov., No. 182, p. 5, 1925.

=*Pseudorasbora parva altipinna* Nichols

Paratypes: 2. China: Yen-ching-kao, Szechwan.

**Pseudorasbora depressirostris** Nichols

Amer. Mus. Nov., No. 182, p. 5, 1925.

=*Pseudorasbora parva depressirostris* Nichols

Paratypes: 2. China: Chin-ssu, Shansi.

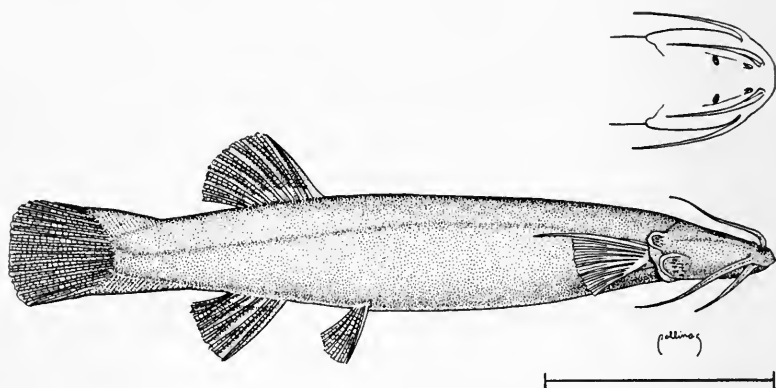


FIG. 51. *Pygidium striatum* Meek and Hildebrand, type. Above, dorsal view of head.

**Pseudupeneus chrysonemus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 186, 1902 (1904).

=*Upeneus taeniatus* Kner

Paratypes: 3. Hilo, Island of Hawaii.

**Pterois ellioti** Meek

Field Mus. Nat. Hist., Zool. Ser., 1, p. 169, pl. 40, 1897.

Type: No. 484. British Somaliland: Berbera.

**Pygidium striatum** Meek and Hildebrand. Figure 51.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 78, 1913.

Type: No. 7579. Panama: Rio Cana, Cana, Darien.

Paratypes: 17. Same locality.

All specimens somewhat shriveled, but not hardened.

**Quisquilius eugenius** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 203, 1902 (1904).

= *Gobiomorphus eugenius* Jordan and Evermann

No. 3970, the number published by Jordan and Evermann, is listed as this species in our catalogue but the specimen has not been found.

**Rhamdia barbata** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 106, 1907.

Type: No. 5906. Nicaragua: Lagoon San Francisco, Managua.

Paratypes: 8. Nicaragua: San Francisco (7), Lake Managua (1).

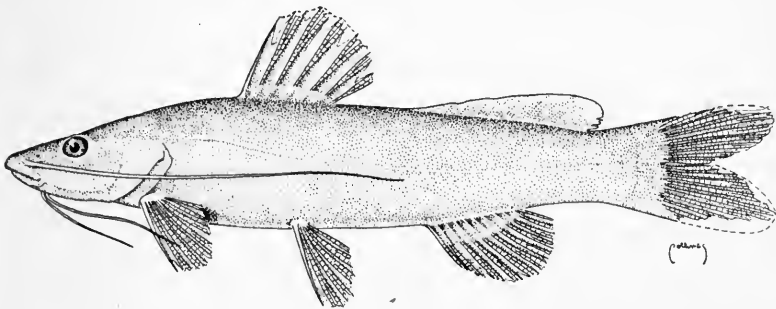


FIG. 52. *Rhamdia nasuta* Meek, type. Body form restored.

**Rhamdia cabreræ** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 93, 1906.

Type: No. 5500. Guatemala: outlet of Lake Amatitlán.

Paratypes: 49. Same locality.

**Rhamdia nasuta** Meek. Figure 52.

Field Mus. Nat. Hist., Zool. Ser., 7, p. 207, 1909.

Type: No. 6480. Costa Rica: Buenos Aires de Térraba.

Hardened and rather shriveled.

**Rhamdia oaxacæ** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 74, pl. 14, 1902.

= *Rhamdia guatemalensis oaxacæ* Meek

Type: No. 3716. Mexico: Cuicatlán.

Paratypes: 7. Same locality.

The published type number (3717) is an error.

**Rhamdia regani** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 144, 1907.

= *Rhamdia rogersi* Regan

Type: No. 6019. Costa Rica: Turrialba.

Paratypes: 9. Costa Rica: Turrialba (4), Rio Tiribi (5).

All specimens shriveled.

**Rhinogobius.** See also **Ctenogobius.**

**Rhinogobius mowbrayi** Bean

Field Mus. Nat. Hist., Zool. Ser., 7, p. 81, fig. 12, 1906.

Type: No. 5030. Bermuda: Challenger Bank.

**Rhinosardinia serrata** Eigenmann

Mem. Carnegie Mus., 5, p. 445, pl. 62, 1912.

Paratypes: 5. British Guiana: Mora Passage.

All somewhat shriveled.

**Rhoadsia.** See **Cheirodon.**

**Rhombosoma sepikensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 400, 1935.

Type: No. 17265. New Guinea: Marienberg, Sepik River.

Paratypes: 6. Same locality.

**Rivulus brunneus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 86, 1913.

Type: No. 7593. Canal Zone: Reservoir Creek, Toro Point.

Paratypes: 7. Same locality.

**Rivulus montium** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 319, fig. 9, 1938.

Paratypes: 2. Panama: top of mountains between Rio Boquerón and Rio Pequeni.

**Rivulus volcanus** Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 22, p. 316, fig. 8, 1938.

Paratypes: 10. Panama: Lagunas Gulnar and Grande, Chiriquí.

**Roeboides macrolepis** Meek and Hildebrand. Figure 53.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 84, 1913.

= *Phanagoniates macrolepis* Meek and Hildebrand

Type: No. 7590. Panama: Rio Cupe, Boca de Cupe, Darien.

Paratypes: 5. Panama: Rio Cupe (3), Rio Aruza (2).

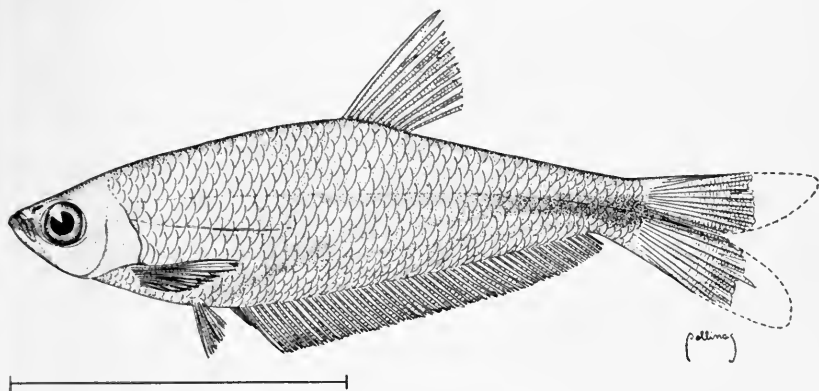


FIG. 53. *Roeboides macrolepis* Meek and Hildebrand, type. Fins reconstructed from paratypes.

**Roeboides occidentalis** Meek and Hildebrand. Figure 54.

Field Mus. Nat. Hist., Zool. Ser., 10, p. 293, pl. 23, 1916.

Paratypes: 223. Canal Zone and Panama: Rio Cárdenas (26), Rio Juan Diaz (1), Rio Culebra (14), Rio Calobre (24), Rio Mamoni (11), Rio Pedro Miguel (29), creek on Arraiján-Chorrera trail (1), creek near Chorrera (1), Rio Marte Arnade (9), Miraflores (15), Arraiján (12), Rio Abaco (4), Rio Chorrera (7), Paraiso (5), Rio Chame (3), creek on savannas (1), Rio Satigante (12), Rio Cupe (30), Rio Yape (4), Rio Aruza (13), Rio Tuyra (1).

Type, No. 8948, has not been found. Type locality Rio Cárdenas, Corozal, Canal Zone.

*Roeboides occidentalis* has been figured because the retouched photograph of a paratype published by Meek and Hildebrand in 1916 is unsatisfactory. Dr. Hildebrand writes that the dark shoulder spot is placed unusually low in the original illustration and that in most specimens examined the spot is wholly above the lateral line; we have found that a mistake was made when the photograph was retouched.

**Roeboides salvadoris** Hildebrand

Bull. Bur. Fish., 41, p. 246, fig. 9, 1925.

Paratypes: 21. El Salvador: Rio Lempa, Suchitoto (10), Rio Sucio, Sitio del Niño (1), Lake Guija and outlet (10).

**Sagamia russula** Jordan and Snyder

Proc. U. S. Nat. Mus., 24, p. 100, fig. 21, 1901.

= *Sagamia geneionema* Hilgendorf

Paratypes: 10. Japan: Nagasaki.

**Salarias martini** Herre

Proc. Biol. Soc. Wash., 55, p. 2, 1942.

Paratypes: 7. Philippine Islands: Estancia, Panay.

**Salarias walaensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 437, 1935.

*Salarias walaensis* Herre, Jour. Pan-Pac. Res. Inst., 6, p. 14, 1931 (nomen nudum).

= *Blennius snowi* Fowler

Type: No. 17393. New Hebrides: Wala Island.

Paratype: Same locality.

**Salmo bathoector** Meek

Field Mus. Nat. Hist., Zool. Ser., 1, p. 227, 1899.

= *Salmo gairdnerii bathoector* Meek

Type: No. 2035. State of Washington: Lake Crescent.

Paratype: Same locality.

**Salmo clarki declivifrons** Meek

Field Mus. Nat. Hist., Zool. Ser., 1, p. 230, 1899.

= *Salmo gairdnerii declivifrons* Meek

Type, No. 2006, from Lake Southerland, State of Washington, has not been found.

**Salmo clarki jordani** Meek

Field Mus. Nat. Hist., Zool. Ser., 1, p. 229, 1899.

Type: No. 2012. State of Washington: Lake Southerland.

Paratypes: 18. Same locality.

**Salmo roosevelti** Evermann

Bull. Bur. Fish., 25, p. 26, pl. 1, 1905 (1906).

= *Salmo aqua-bonita roosevelti* Evermann

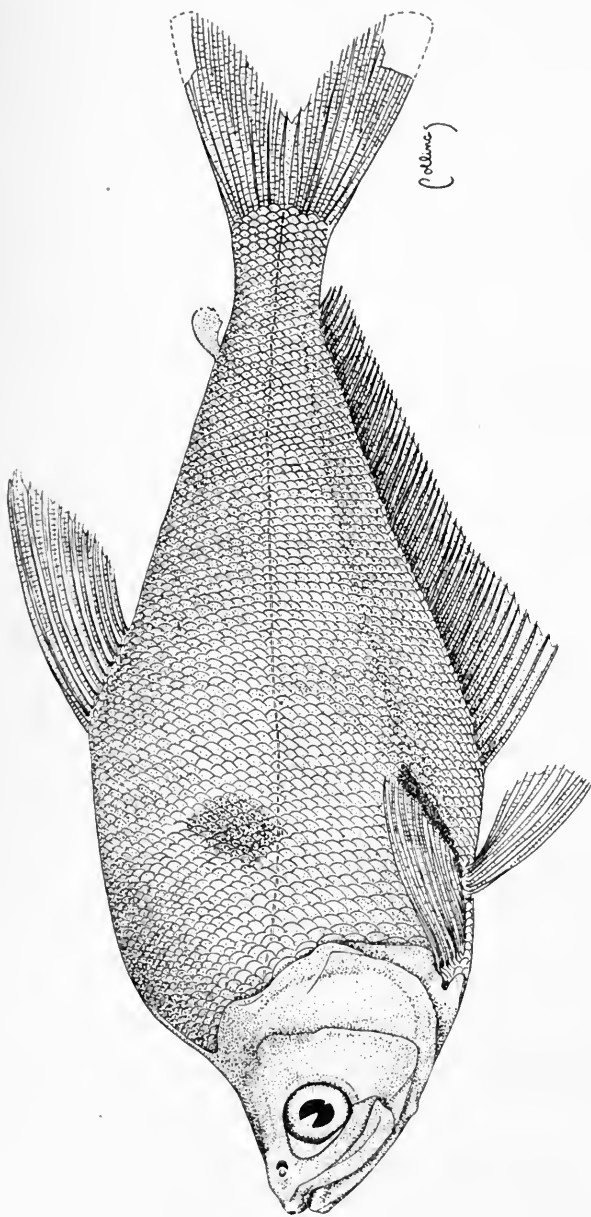


FIG. 54. *Roeboites occidentalis* Meek and Hildebrand, paratype.

Paratype: California: Volcano Creek.

Received as a paratype from the United States National Museum.

**Scarus lauia** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 196, 1902 (1904).

= *Callyodon formosus* Valenciennes

Paratype: Hawaiian Islands.

**Scorpaenopsis catocala** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 201, 1902 (1904).

F. M. N. H. No. 3966, published by Jordan and Evermann in their list of "cotypes," is entered in our catalogue as a different species, and neither the specimen nor a catalogue entry for it has been found.

**Sebastapistes badio-rufus** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 409, 1935.

Type: No. 17337. Tuamotu Islands: Takaroa Island.

**Sicydium altum** Meek

Field Mus. Nat. Hist., Zool. Ser., 7, p. 149, 1907.

Type: No. 6034. Costa Rica: Turrialba.

Paratypes: 2. Costa Rica: El Guayabo.

**Sicydium montanum** Hubbs

Proc. Biol. Soc. Wash., 33, p. 89, 1920.

Type: No. 9053. Venezuela: Mecuto, Caracas.

Paratypes: 10. Same locality.

**Signalosa atchafalayae vanhyningi** Weed

Field Mus. Nat. Hist., Zool. Ser., 12, p. 145, 1925.

= *Signalosa petenensis vanhyningi* Weed

Type: No. 11395. Florida: near Gainesville.

Paratypes: 3. Same locality.

**Signalosa mexicana campi** Weed

Field Mus. Nat. Hist., Zool. Ser., 12, p. 143, 1925.

= *Signalosa petenensis campi* Weed

Type: No. 11413. Texas: Resaca de la Guerra, Brownsville.

Paratypes: 507. Texas: vicinity of Brownsville.

Some scales missing.



**Siphostoma brevicaudum** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 163, fig. 51, 1904.

= *Oostethus lineatus* Valenciennes

Type: No. 4586. Mexico: Boca del Rio, Vera Cruz.

Paratypes: 2. Same locality.

**Siphostoma elcapitanense** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 119, 1914.

= *Syngnathus elcapitanense* Meek and Hildebrand

Paratypes: 7. Panama: Rio Mamoni, El Capitan (2), Rio Mamoni, Chepo (1), Rio Tuyra, Boca de Cupe (1), Rio Calobre (1).

Costa Rica: Jesús María (1), Turrubales (1).

**Skiffia lermæ** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 102, pl. 25, 1902.

Type: No. 3616. Mexico: Lago de Patzcuaro, Michoacán.

Paratypes: 114. Mexico: Patzcuaro (113), Celaya (1).

**Skiffia variegata** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 104, pl. 25, 1902.

Type: No. 3612. Mexico: Lago de Zirahuen, Michoacán.

Allotype and paratypes: 99. Mexico: Zirahuen (87), Chalco (12).

Chalco specimens in bad condition; allotype somewhat damaged.

**Sparisoma rhomaleum** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 754, pl. 74, 1928.

Paratype: Panama: Colón market.

**Sphoeroides kendalli** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 819, pl. 79, 1928.

Paratype: Panama: Chame Point.

Somewhat shriveled.

**Spinoblennius spiniger** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 435, 1935.

Type: No. 17395. Galapagos Islands: Eden Island.

Paratype: Same locality.

**Spirinchus dilatatus** Schultz and Chapman

Ann. Mag. Nat. Hist., (10), 13, p. 68, pls. 2, 3, 1934.

Paratype: State of Washington: Nooksack River.

**Stellifer colonensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 623, pl. 66, 1925.

Paratypes: 21. Panama and Canal Zone: Colón Reef (2), Toro Point (6), Fox Bay (9), Mindi Reef (4).

Fox Bay specimens hard and rather shriveled.

**Stellifer mindii** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 15, p. 626, pl. 66, 1925.

Paratypes: 3. Canal Zone: Mindi Reef.

**Sternarchus hasemani** Ellis

Mem. Carnegie Mus., 6, p. 147, pl. 23, 1913.

= *Apteronotus hasemani* Ellis

Paratypes: 2. Brazil: Santarem.

**Sternarchus rostratus** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 85, 1913.

Type: No. 7592. Panama: Rio Grande, Cana.

**Sternopygus dariensis** Meek and Hildebrand

Field Mus. Nat. Hist., Zool. Ser., 10, p. 309, pl. 26, 1916.

Type: No. 8949. Panama: Marriganti, Rio Tuyra.

Paratypes: 12. Same locality.

**Stizostedion glaucum** Hubbs

Mus. Zool. Univ. Mich. Misc. Publ., 15, p. 58, pl. 4, 1926.

= *Stizostedion vitreum glaucum* Hubbs

Paratypes: 2. Pennsylvania: Lake Erie at Erie.

**Stolephorus lyolepis** Evermann and Marsh

Bull. U. S. Fish Comm., 20, p. 89, fig. 13, 1900 (1902).

= *Anchoa lyolepis* Evermann and Marsh

Paratypes: 5. Puerto Rico: Culebra.

Scales almost entirely lacking.

**Sturisoma.** See *Oxyloricaria*.**Suruga fundicola** Jordan and Snyder

Proc. U. S. Nat. Mus., 24, p. 96, fig. 20, 1901.

Paratypes: 3. Japan: Suruga Bay.

Only one specimen in good condition.

**Syngnathus.** See also **Siphostoma.**

**Syngnathus mackayi nesiotes** Herald

Stanf. Ichth. Bull., 2, p. 128, 1942.

Paratypes: 11. Bermuda: The Flatts (1), Wellman Bay (3), The Reach, St. Georges (2), Long Bay, Somerset (2), Cobb Bay, Tucker's Town (1), Cooper's Island (1), The Lane, Hamilton (1).

**Tachysurus.** See **Arius.**

**Tagusa delicata** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 435, 1935.

Type: No. 17399. Galapagos Islands: Tagus Cove, Albemarle Island.

Paratypes: 3. Same locality.

**Teuthis atrimentatus** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 198, 1902 (1904).

= *Hepatus lineolatus* Valenciennes

Paratype: Hawaiian Islands: Honolulu.

Catalogued as No. 3968. The published number (F.M.N.H. No. 3965) is an error, having already been assigned to *Echidna zonophaea* (q.v.).

**Thalassoma cranei** Herre

Jour. Pan-Pac. Res. Inst., 6, p. 8, 1931 (nomen nudum); Field Mus. Nat. Hist., Zool. Ser., 18, p. 412, 1935.

Type: No. 17347. Solomon Islands: Tenibuli, Ysabel Island.

**Thorichthys ellioti** Meek

Field Mus. Nat. Hist., Zool. Ser., 5, p. 223, fig. 72, 1904.

= *Cichlasoma ellioti* Meek

Type: No. 4627. Mexico: Motzorongo, Vera Cruz.

Paratypes: 25. Same locality.

The published type number (4727) is an error.

**Thyrina.** See also **Melaniris** and **Menidia.**

**Thyrina guiija** Hildebrand

Bull. Bur. Fish., 41, p. 264, fig. 18, 1925.

Paratypes: 13. El Salvador: Lake Guija and outlet (5), Rio Lempa, San Marcos (4), Rio Lempa, Suchitoto (4).

**Toxus riddlei** Eigenmann

Bull. U. S. Fish Comm., 22, p. 226, fig., 1902 (1904).

= *Toxus creolus* Garman

Allotype: Cuba: San Cristóbal.

**Trachycoristes.** See also **Felichthys**.

**Trachycoristes fisheri** Eigenmann

Ann. Carnegie Mus., 10, p. 82, 1916.

Paratypes: 4. Colombia: Rio Truando.

All rather soft.

**Tylobranchus maculosus** Eigenmann

Mem. Carnegie Mus., 5, p. 272, pl. 35, 1912.

Paratypes: 2. British Guiana: Tumatumari, lower Potaro River.

**Upeneus arge** Jordan and Evermann

Bull. U. S. Fish Comm., 22, p. 187, 1902 (1904).

Paratype: Hawaiian Islands: Honolulu.

**Vaimosa balteata** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 419, 1935.

= *Acentrogobius balteata* Herre

Type: No. 17386. Waigi Island.

**Vaimosa osgoodi** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 420, 1935.

= *Pseudogobiopsis romeri* Weber

Type: No. 17387. Fiji Islands: Viti Levu Island.

**Varicorhinus robustus** Nichols

Amer. Mus. Nov., No. 182, p. 2, 1925.

Paratypes: 2. China: Yenping, Fukien.

**Vesicatrus tegatus** Eigenmann

Ann. Carnegie Mus., 8, p. 174, pl. 7, 1911.

Paratype: Brazil: Rio Jaurú, upper Paraguay Basin.

**Xenatherina.** See **Menidia**.

**Xenophorus.** See *Goodea*.

**Xenophallus.** See *Gambusia*.

**Xenotis.** See *Lepomis*.

**Xiphophorus jalapae** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 107, pl. 26, 1902.

Type: No. 3724. Mexico: Jalapa, Vera Cruz.

Allotype and paratypes: 199. Same locality.

**Xyrichthys niveilatus** Jordan and Evermann •

Bull. U. S. Fish Comm., 22, p. 194, 1902 (1904).

= *Inistius aneitensis* Günther

Paratype: Hawaiian Islands.

**Zenarchopterus sepikensis** Herre

Field Mus. Nat. Hist., Zool. Ser., 18, p. 391, 1935.

Type: No. 17213. New Guinea: Koragu, Sepik River.

Paratypes: 10. New Guinea: Koragu (4), Marienberg (5), Ambot (1).

Beak of type broken, general condition not as good as that of paratypes; two of the Marienberg specimens with broken beaks.

**Zoogoneticus diazi** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 93, pl. 21, 1902.

= *Neophorus diazi* Meek

Type: No. 3618. Mexico: Lago de Patzcuaro, Michoacán.

Paratypes: 126. Mexico: Patzcuaro (100), Zirahuen (26).

**Zoogoneticus miniatus** Meek

Field Mus. Nat. Hist., Zool. Ser., 3, p. 94, pl. 21, 1902.

= *Neophorus diazi* Meek

Type: No. 3680. Mexico: Lago de Chalco, near Chalco.

Paratypes: 4. Same locality.

All specimens soft.

**Zygonectes pulvereus** Evermann

Bull. U. S. Fish Comm., 11, p. 85, pl. 36, 1891 (1892).

= *Fundulus pulvereus* Evermann

Cotype: Texas: Corpus Christi.

# LIST OF TYPE SPECIMENS

## Arranged by Family

### BRANCHIOSTOMIDAE

- Branchiostoma bermudae* Hubbs. Paratypes.  
*Branchiostoma floridae* Hubbs. Paratypes.

### PETROMYZONIDAE

- Ichthyomyzon unicuspis* Hubbs and Trautman. Paratypes.

### CLUPEIDAE

- Alosa ohiensis* Evermann. Paratype.  
*Dorosoma anale* Meek. Type and paratypes.  
*Dorosoma chavesi* Meek. (Type) and paratypes.  
*Ilisha argentata* Meek and Hildebrand. Paratypes.  
*Odontognathus compressus* Meek and Hildebrand. Paratypes.  
*Rhinosardinia serrata* Eigenmann. Paratypes.  
*Signalosa atchafalayae vanhyningi* Weed. Type and paratypes.  
*Signalosa mexicana campi* Weed. Type and paratypes.  
*Stolephorus lyolepis* Evermann and Marsh. Paratypes.

### ENGRAULIDAE

- Anchoa lamprotaenia* Hildebrand. Paratypes.  
*Anchoa mitchilli diaphana* Hildebrand. Paratypes.  
*Anchoa arenicola* Meek and Hildebrand. Paratypes.  
*Anchoa brevirostra* Meek and Hildebrand. Paratypes.  
*Anchoa eigenmannia* Meek and Hildebrand. Paratypes.  
*Anchoa elongata* Meek and Hildebrand. Paratypes.  
*Anchoa parva* Meek and Hildebrand. Paratypes.  
*Anchoiella helleri* Hubbs. Type and paratypes.

### SALMONIDAE

- Coregonus stanleyi* Kendall. Paratypes.  
*Leucichthys alpenae* Koelz. Paratypes.  
*Leucichthys kiyi* Koelz. Paratypes.  
*Leucichthys reighardi* Koelz. Paratypes.  
*Salmo bathoector* Meek. Type and paratype.  
*Salmo clarki declivifrons* Meek. (Type.)  
• *Salmo clarki jordani* Meek. Type and paratypes.  
*Salmo roosevelti* Evermann. Paratype.

### OSMERIDAE

- Spirinchus dilatatus* Schultz and Chapman. Paratype.

## UMBRIDAE

*Norumbra hubbsi* Schultz. Paratype.

## STERNOPTYCHIDAE

*Polyipnus nuttingii* Gilbert. Paratypes.

## SUDIDAE

*Bathypterois pectoralis* Garman. Paratype.

*Paralepis philippinus* Fowler. Paratypes.

## MYCTOPHIDAE

*Lampanyctus micropunctatus* Chapman. Paratype.

## CHARACINIDAE

*Acanthocharax microlepis* Eigenmann. Paratype.

*Agoniatas anchovia* Eigenmann. Paratype.

*Alestes langi* Fowler. Paratypes.

*Alestes thamalakanensis* Fowler. Paratypes.

*Aphyocharax erythrurus* Eigenmann. Paratypes.

*Astyanax abramoides* Eigenmann. Paratypes.

*Astyanax aeneus costaricensis* Meek. Cotypes.

*Astyanax albeolus* Eigenmann. Type.

*Astyanax bimaculatus novae* Eigenmann. Paratypes.

*Astyanax bimaculatus paraguayensis* Eigenmann. Paratypes.

*Astyanax essequibensis* Eigenmann. Paratypes.

*Astyanax grandis* Meek and Hildebrand. Type and paratypes.

*Astyanax guianensis* Eigenmann. Paratypes.

*Astyanax kompi* Hildebrand. Paratypes.

*Astyanax mucronatus* Eigenmann. Paratype.

*Astyanax mutator* Eigenmann. Paratypes.

*Astyanax nasutus* Meek. Type and paratypes.

*Astyanax orthodus* Eigenmann. Paratypes.

*Astyanax potaroensis* Eigenmann. Paratype.

*Astyanax regani* Meek. Type.

*Astyanax ribeirae* Eigenmann. Paratypes.

*Astyanax robustus* Meek. Type and paratypes.

*Bivibranchia protractila* Eigenmann. Paratype.

*Bramocharax elongatus* Meek. Type and paratypes.

*Brycon argenteus* Meek and Hildebrand. Type and paratypes.

*Brycon obscurus* Hildebrand. Paratypes.

*Brycon petrosus* Meek and Hildebrand. Type and paratypes.

*Bryconamericus cascajalensis* Meek and Hildebrand. Type and paratypes.

*Bryconamericus hyphessus* Eigenmann. Paratype.

*Bryconamericus osgoodi* Eigenmann and Allen. Paratypes.

*Bryconamericus peruanus ricae* Eigenmann. Cotypes.

*Bryconamericus scopiferus* Eigenmann. Paratypes.

*Bryconamericus zeteki* Hildebrand. Paratypes.

*Cheirodon eigenmanni* Meek. Type and paratype.

*Copeina osgoodi* Eigenmann. Type and paratypes.

CHARACINIDAE—*continued*

- Creagrutus notropoides* Meek and Hildebrand. Type and paratypes.  
*Creagrutus simus* Meek and Hildebrand. Type and paratypes.  
*Curimatus atratoensis* Eigenmann. Paratypes.  
*Curimatus morawahannae* Eigenmann. Paratypes.  
*Deuterodon atracaudata* Meek and Hildebrand. Type and paratypes.  
*Deuterodon pinnatus* Eigenmann. Paratypes.  
*Distichodus stigmaturus* Fowler. Paratypes.  
*Fowlerina franciscoensis* Eigenmann. Paratypes.  
*Gephyrocharax chocoensis* Eigenmann. Paratypes.  
*Gephyrocharax intermedius* Meek and Hildebrand. Type and paratypes.  
*Gephyrocharax whaleri* Hildebrand. Paratypes.  
*Glandulocauda melanogenys* Eigenmann. Paratypes.  
*Hemibrycon dariensis* Meek and Hildebrand. Type and paratypes.  
*Hemigrammus analis* Durbin. Paratypes.  
*Hemigrammus compressus* Meek. Type and paratypes.  
*Hemigrammus cylindricus* Durbin. Paratype.  
*Hemigrammus erythrozonus* Durbin. Paratypes.  
*Hemigrammus iota* Durbin. Paratype.  
*Hemigrammus micropterus* Meek.  
*Hemigrammus minutus* Meek and Hildebrand. (Type) and paratypes.  
*Hemigrammus orthus* Durbin. Paratype.  
*Hemigrammus riddlei* Meek.  
*Hemigrammus rodwayi* Durbin. Paratypes.  
*Holopristes riddlei* Meek. Paratypes.  
*Hypheosobrycon bifasciatus* Ellis. Paratypes.  
*Hypheosobrycon ecuadoriensis* Eigenmann and Henn. Paratypes.  
*Hypheosobrycon eos* Durbin. Paratypes.  
*Hypheosobrycon rosaceus* Durbin. Paratypes.  
*Hypheosobrycon stictus* Durbin. Paratypes.  
*Hypheosobrycon taurocephalus* Ellis. Paratypes.  
*Moenkhausia browni* Eigenmann. Paratypes.  
*Mylosoma ocellatum* Eigenmann. Paratypes.  
*Phenacogaster franciscoensis* Eigenmann. Paratype.  
*Phenacogaster megalostictus* Eigenmann. Paratypes.  
*Poecilocharax bovalii* Eigenmann. Paratype.  
*Pristella aubyni* Eigenmann. Paratype.  
*Pseudocheirodon affinis* Meek and Hildebrand. Type and paratypes.  
*Roeboides macrolepis* Meek and Hildebrand. Type and paratypes.  
*Roeboides occidentalis* Meek and Hildebrand. (Type) and paratypes.  
*Roeboides salvadoris* Hildebrand. Paratypes.  
*Tylobranchus maculosus* Eigenmann. Paratypes.  
*Vesicatrus tegatus* Eigenmann. Paratype.

## ANOSTOMIDAE

- Leporinus alternus* Eigenmann. Paratype.  
*Leporinus ecuadoriensis* Eigenmann and Henn. Paratypes.  
*Leporinus granti* Eigenmann. Paratype.



## HEMIODONTIDAE

- Apareiodon hasemani* Eigenmann. Paratypes.  
*Apareiodon itapicuruensis* Eigenmann and Henn. Paratype.  
*Characidium blennoides* Eigenmann. Paratype.  
*Characidium catenatum* Eigenmann. Paratype.  
*Characidium vintoni* Eigenmann. Paratypes.  
*Characidium zebra* Eigenmann. Paratype.  
*Nannostomus marginatus* Eigenmann. Paratype.  
*Parodon dariensis* Meek and Hildebrand. Type and paratype.  
*Poecilobrycon auratus* Eigenmann. Paratype.  
*Poecilobrycon erythrurus* Eigenmann. Paratype.  
*Poecilobrycon ocellatus* Eigenmann. Paratypes.

## GYMNOTIDAE

- Sternarchus hasemani* Ellis. Paratypes.  
*Sternarchus rostratus* Meek and Hildebrand. Type.  
*Sternopygus dariensis* Meek and Hildebrand. Type and paratypes.

## CATOSTOMIDAE

- Carpiodes elongatus* Meek. Type and paratypes.  
*Carpiodes labiosus* Meek. Type and paratype.  
*Carpiodes microstomus* Meek. Type and paratypes.  
*Catostomus conchos* Meek. Type and paratypes.  
*Catostomus sonorensis* Meek. Type and paratypes.  
*Pantosteus santa-anae* Snyder. Paratypes.

## CYPRINIDAE

- Acheilognathus barbatus* Nichols. Paratype.  
*Acheilognathus gracilis* Nichols. Paratype.  
*Agosia adobe* Jordan and Evermann. Cotypes.  
*Agosia yarrowi* Jordan and Evermann. Cotypes.  
*Alburnops illecebrosus* Girard. Cotype.  
*Algansea rubescens* Meek. Type and paratypes.  
*Aztecula mexicana* Meek. Type and paratypes.  
*Barbus akeleyi* Hubbs. Type and paratypes.  
*Barbus alhi* Hubbs. Type and paratypes.  
*Barbus bifrenatus* Fowler. Paratypes.  
*Barbus fitzsimonsi* Fowler. Paratypes.  
*Barbus helleri* Hubbs. Type and paratypes.  
*Barbus tsotsorogensis* Fowler. Paratypes.  
*Coripareius septentrionalis* Nichols. Paratype.  
*Evarra llahuacensis* Meek. Type.  
*Gila minacae* Meek. Type.  
*Gobio coriparoides* Nichols. Paratypes.  
*Gobio rivuloides* Nichols. Paratypes.  
*Gobio soldatori minus* Nichols. Paratypes.  
*Hemiculterella engraulis* Nichols. Paratypes.  
*Hybognathus hankinsoni* Hubbs. Paratypes.  
*Leuciscus carletoni* Kendall. Paratypes.

## CYPRINIDAE—continued

- Leucogobio polytaenia* Nichols. Paratypes.  
*Nototropis forlonensis* Meek. Type and paratypes.  
*Nototropis nazas* Meek. Type and paratypes.  
*Notropis aztecus* Woolman. Cotypes.  
*Notropis chihuahua* Woolman. Cotype.  
*Notropis greenei* Hubbs and Ortenberger. Paratypes.  
*Notropis muskoka* Meek. Type and paratypes.  
*Notropis robustus* Meek. Type and paratypes.  
*Notropis santarosaliae* Meek. Type and paratypes.  
*Pimephales annuli* Kendall. Paratypes.  
*Pseudogobio chinssuensis* Nichols. Paratype.  
*Pseudorasbora altipinna* Nichols. Paratypes.  
*Pseudorasbora depressirostris* Nichols. Paratypes.  
*Varicorhinus robustus* Nichols. Paratypes.

## COBITIDAE

- Barbatula toni posteroventralis* Nichols. Paratypes.  
*Barbatula yarkandensis sellaefer* Nichols. Paratypes.  
*Botia purpurea* Nichols. Paratype.  
*Cobitis taenia melanoleuca* Nichols. Paratype.  
*Crossostoma fascicauda* Nichols. Paratype.  
*Misgurnus anguillicaudatus tungting* Nichols. Paratypes.  
*Misgurnus mizolepis fukien* Nichols. Paratype.  
*Misgurnus mizolepis grangeri* Nichols. Paratypes.  
*Misgurnus mohoity yunnan* Nichols. Paratype.

## ARIIDAE

- Arius kanganamensis* Herre. Type.  
*Arius nox* Herre. Type and paratypes.  
*Arius solidus* Herre. Type and paratypes.  
*Arius tuyra* Meek and Hildebrand. Paratypes.  
*Felichthys amblops* Meek and Hildebrand. Type and paratypes.  
*Galeichthys aquadulce* Meek. Type.  
*Hemipimelodus papillifer* Herre. Type and paratype.

## DORADIDAE

- Auchenipterus brevior* Eigenmann. Paratype.  
*Doraops zuloagi* Schultz. Paratype.  
*Hemidoras microstomus* Eigenmann. Paratype.  
*Leptodoras linnelli* Eigenmann. Paratype.

## BAGRIDAE

- Liobagrus anguillicauda* Nichols. Paratypes.

## AMEIURIDAE

- Ameiurus australis* Meek. Type.  
*Ameiurus mexicanus* Meek. Type and paratypes.

**SISORIDAE**

*Glyptothorax housei* Herre. Paratypes.

**PIMELODIDAE**

- Chasmocranus longior* Eigenmann. Paratype.  
*Leptoglanis essequibensis* Eigenmann. Paratype.  
*Megalonema punctatum* Meek and Hildebrand. Type.  
*Megalonema robustum* Meek and Hildebrand. Type and paratypes.  
*Megalonema xanthum* Eigenmann. Paratypes.  
*Microglanis iheringi* Gomes. Type and paratypes.  
*Myoglanis potaroensis* Eigenmann. Paratype.  
*Pimelodella eigenmanni* Meek. Type and paratypes.  
*Pimelodella macturkii* Eigenmann. Paratype.  
*Pimelodella megalops* Eigenmann. Paratypes.  
*Pseudopimelodus albomarginatus* Eigenmann. Paratype.  
*Rhamdia barbata* Meek. Type and paratypes.  
*Rhamdia cabreræ* Meek. Type and paratypes.  
*Rhamdia nasuta* Meek. Type.  
*Rhamdia oaxacæ* Meek. Type and paratypes.  
*Rhamdia regani* Meek. Type and paratypes.  
*Trachycoristes fisheri* Eigenmann. Paratypes.

**PYGIDIIDAE**

*Pygidium striatum* Meek and Hildebrand. Type and paratypes.

**BUNOCEPHALIDAE**

*Bunocephalus chamaizelus* Eigenmann. Paratype.

**CALLICHTHYIDAE**

*Hoplosternum punctatum* Meek and Hildebrand. Type and paratype.

**LORICARIIDAE**

- Acanthicus canensis* Meek and Hildebrand. Type and paratypes.  
*Ancistrus lithurgicus* Eigenmann. Paratype.  
*Ancistrus planiceps* Meek and Hildebrand. Type and paratypes.  
*Ancistrus spinosus* Meek and Hildebrand. Type.  
*Cyclopium pirrense* Meek and Hildebrand. Type and paratypes.  
*Lithoxus lithoides* Eigenmann. Paratypes.  
*Loricaria capelensis* Meek and Hildebrand. Type.  
*Loricaria griseus* Eigenmann. Paratype.  
*Loricaria gymnogaster lagoichthys* Schultz. Paratypes.  
*Loricaria stewarti* Eigenmann. Paratype.  
*Loricaria tuyrensis* Meek and Hildebrand. Type and paratypes.  
*Loricaria uracantha rupestre* Schultz. Paratypes.  
*Loricaria variegata venezuelæ* Schultz. Paratypes.  
*Oxyloricaria citurensis* Meek and Hildebrand. Type and paratypes.  
*Oxyloricaria dariensis* Meek and Hildebrand. (Type) and paratypes.

**MURAENIDAE**

- Echidna zonophaea* Jordan and Evermann. Paratype.  
*Gymnothorax efatensis* Herre. Type.

**HEMIRHAMPHIDAE**

- Hyporhamphus hildebrandi* Jordan and Evermann. Cotypes.  
*Hyporhamphus snyderi* Meek and Hildebrand. Paratypes.  
*Odontorhamphus cancellori* Weed. Type.  
*Zenarchopterus sepikensis* Herre. Type and paratypes.

**EXOCOETIDAE**

- Cypselurus alienus* Herre. Type.

**MACRURIDAE**

- Optonurus atherodon* Gilbert and Cramer. Paratype.

**GASTEROSTEIDAE**

- Gasterosteus plebius* Girard. Cotypes.

**SYNGNATHIDAE**

- Bombonia uxorius* Herre. Type.  
*Corythoichthys elerae* Evermann and Seale. Paratype.  
*Hippocampus brunneus* Bean. Type.  
*Hippocampus fisheri* Jordan and Evermann. Paratype.  
*Micrognathus suvensis* Herre. Type.  
*Siphostoma brevicaudum* Meek. Type and paratypes.  
*Siphostoma elcapitanense* Meek and Hildebrand. Paratypes.  
*Syngnathus mackayi nesiotis* Herald. Paratypes.

**CYPRINODONTIDAE**

- Aplocheilus chobensis* Fowler. Paratypes.  
*Cyprinodon dearborni* Meek. Type and paratypes.  
*Fundulus cubensis* Eigenmann. Paratype.  
*Fundulus oaxacae* Meek. Type and paratypes.  
*Profundulus candalarius* Hubbs. Type and allotype.  
*Zygonectes pulvereus* Eigenmann. Cotype.

**GOODEIDAE**

- Characodon multiradiatus* Meek. Type and paratypes.  
*Goodea captiva* Hubbs. Type and paratypes.  
*Goodea toweri* Meek. Type and paratypes.  
*Goodea whitei* Meek. Type and paratypes.  
*Skiffia lermæ* Meek. Type and paratypes.  
*Skiffia variegata* Meek. Type, allotype, and paratypes.  
*Zoogoneticus diazi* Meek. Type and paratypes.  
*Zoogoneticus miniatus* Meek. Type and paratypes.

## POECILIIDAE

- Acanthocephalus bifurcus* Eigenmann. Paratypes.  
*Acanthocephalus melanzonus* Eigenmann. Paratype.  
*Alfaro acutiventralis* Meek. Type, allotype, and paratypes.  
*Cnesterodon carnegieii* Haseman. Paratypes.  
*Cynodonichthys tenuis* Meek. Type.  
*Gambusia bonita* Meek. Type, allotype, and paratypes.  
*Gambusia cana* Meek and Hildebrand. Type, allotype, and paratypes.  
*Gambusia cascajalensis* Meek and Hildebrand. Type, allotype, and paratypes.  
*Gambusia darienensis* Meek and Hildebrand. Type, allotype, and paratypes.  
*Gambusia fasciata* Meek. Type and paratypes.  
*Gambusia infans* Woolman. Cotypes.  
*Gambusia latipunctata* Meek and Hildebrand. Type and paratypes.  
*Gambusia panuco* Hubbs. Type, allotype, and paratypes.  
*Gambusia parismina* Meek. Type and paratypes.  
*Gambusia regani* Hubbs. Type, allotype, and paratypes.  
*Gambusia turrubarensis* Meek. Type, allotype, and paratypes.  
*Gambusia umbratilis* Meek. Type and paratypes.  
*Gambusia vittata* Hubbs. Type and paratypes.  
*Girardinus garmani* Eigenmann. Paratype.  
*Glaridichthys falcatus* Eigenmann. Paratypes.  
*Heterandria cubensis* Eigenmann. Paratype.  
*Heterandria lutzi* Meek. Type and paratypes.  
*Platypocilus tropicus* Meek. Type and paratypes.  
*Platypocilus variatus* Meek. Type and paratypes.  
*Poecilia caudata* Meek. Type, allotype, and paratypes.  
*Poecilia latipunctata* Meek. Type and paratypes.  
*Poecilia pittieri* Meek. Type, allotype, and paratypes.  
*Poecilia tenuis* Meek. Type and paratypes.  
*Poeciliopsis balsas* Hubbs. Type and paratypes.  
*Priapichthys annectens hesperis* Hubbs. Type and paratypes.  
*Priapichthys fosteri* Hildebrand. Paratypes.  
*Priapichthys letonai* Hildebrand. Paratypes.  
*Priapichthys olomina* Meek. Type, allotype, and paratypes.  
*Priapichthys panamensis* Meek and Hildebrand. Type, allotype, and paratypes.  
*Rivulus brunneus* Meek and Hildebrand. Type and paratypes.  
*Rivulus montium* Hildebrand. Paratypes.  
*Rivulus volcanus* Hildebrand. Paratypes.  
*Toxus riddlei* Eigenmann. Allotype.  
*Xiphophorus jalapae* Meek. Type, allotype, and paratypes.

## HOLOCENTRIDAE

- Flammeo scythrops* Jordan and Evermann. Paratype.  
*Holocentrus ensifer* Jordan and Evermann. Paratype.  
*Holocentrus meeki* Bean. Cotypes.  
*Holocentrus xantherythrus* Jordan and Evermann. Paratypes.  
*Myripristis argyromus* Jordan and Evermann. Paratype.  
*Myripristis berndti* Jordan and Evermann. Paratype.  
*Myripristis chryseres* Jordan and Evermann. Paratype.

**HOLOCENTRIDAE**—*continued*

- Myripristis mooreanus* Herre. Type and paratypes.  
*Myripristis symmetricus* Jordan and Evermann. Paratype.  
*Myripristis undecimalis* Herre. Type.

**ATHERINIDAE**

- Atherina evermanni* Eigenmann. Paratypes.  
*Atherina insularum* Jordan and Evermann. Paratype.  
*Atherina ovalaua* Herre. Type and paratypes.  
*Atherinops affinis littoralis* Hubbs. Type and paratypes.  
*Atherinops insularum cedrosensis* Hubbs. Paratypes.  
*Atherinops insularum guadalupae* Hubbs. Paratypes.  
*Chirostoma attenuatum* Meek. Type and paratypes.  
*Chirostoma consocium* Jordan and Hubbs. Type and paratypes.  
*Chirostoma jordani* Woolman. Cotypes.  
*Chirostoma labarcae* Meek. Type and paratypes.  
*Chirostoma mezquital* Meek. Type and paratypes.  
*Chirostoma patzcuaro* Meek. Type and paratypes.  
*Chirostoma regani* Jordan and Hubbs. Type and paratypes.  
*Chirostoma zirahuen* Meek. Type and paratypes.  
*Ischnomembras gabunensis* Fowler. Paratype.  
*Melaniris balsanus* Meek. Type and paratypes.  
*Melaniris sardina* Meek. Type and paratypes.  
*Melanotaenia kabia* Herre. Type and paratypes.  
*Melanotaenia rosacea* Herre. Type and paratypes.  
*Menidia chagresi* Meek and Hildebrand. Paratypes.  
*Menidia lisa* Meek. Type and paratypes.  
*Menidia peninsulae atrimentatus* Kendall. Paratypes.  
*Menidia starksi* Meek and Hildebrand. Paratypes.  
*Mugilops cyanellus* Meek and Hildebrand. Paratypes.  
*Rhombosoma sepikensis* Herre. Type and paratypes.  
*Thyrina guija* Hildebrand. Paratypes.

**AMBASSIDAE**

- Ambassis lafa* Jordan and Seale. Paratypes.  
*Ambassis vaivasensis* Jordan and Seale. Paratypes.

**SERRANIDAE**

- Anthias mooreanus* Herre. Type.  
*Diplectrum pacificum* Meek and Hildebrand. Paratypes.  
*Nesiotes purpurascens* De Vis. Neotype.  
*Pikea aurora* Jordan and Evermann. Paratype.

**KUHLIIDAE**

- Kuhlia bilunulata* Herre. Type and paratypes.

**CENTRARCHIDAE**

- Lepomis occidentalis* Meek. Type and paratypes.  
*Micropterus pseudaplites* Hubbs. Paratypes.

**APOGONIDAE**

- Apogon abo* Herre. Type and paratypes.  
*Apogon snyderi* Jordan and Evermann. Paratypes.  
*Mionorus pacificus* Herre. Type and paratype.

**PERCIDAE**

- Hololepis saludae* Hubbs and Cannon. Paratype.  
*Stizostedion glaucum* Hubbs. Paratypes.

**CARANGIDAE**

- Hemicarax rhomboides* Meek and Hildebrand. Paratype.

**LUTIANIDAE**

- Etelis evurus* Jordan and Evermann. Paratype.

**DENTICIDAE**

- Gnathodentex oculo-maculatus* Herre. Type and paratype.

**GERRIDAE**

- Diapterus evermanni* Meek and Hildebrand. Paratypes.  
*Eucinostomus californiensis elongatus* Meek and Hildebrand. Paratypes.

**NEMIPTERIDAE**

- Parascolopsis townsendi* Boulenger. Paratype.

**POMADASIDAE**

- Anisotrema williamsoni* Meek. Type and paratypes.  
*Pomadasis grandis* Meek. Type.  
*Pomadasys starri* Meek. Type.  
*Pomadasys templei* Meek. Type and paratypes.

**SCIAENIDAE**

- Ophioscion punctatissimus* Meek and Hildebrand. Paratypes.  
*Stellifer colonensis* Meek and Hildebrand. Paratypes.  
*Stellifer mindii* Meek and Hildebrand. Paratypes.

**MULLIDAE**

- Pseudupeneus chrysonemus* Jordan and Evermann. Paratypes.  
*Upeneus arge* Jordan and Evermann. Paratype.

**PEMPHERIDAE**

- Pempheris dispar* Herre. Type and paratypes.

**CICHLIDAE**

- Aequidens potaroensis* Eigenmann. Paratypes.  
*Cichlasoma alfari* Meek. Type and paratypes.  
*Cichlasoma calobrense* Meek and Hildebrand. Type and paratypes.  
*Cichlasoma centrale* Meek. Type.

CICHLIDAE—*continued*

- Cichlasoma dorsatum* Meek. Type and paratypes.  
*Cichlasoma eigenmanni* Meek. Type and paratype.  
*Cichlasoma evermanni* Meek. Type and paratypes.  
*Cichlasoma frontale* Meek. Type and paratype.  
*Cichlasoma granadense* Meek. Type and paratypes.  
*Cichlasoma hedricki* Meek. Type and paratypes.  
*Cichlasoma meeki* Hildebrand. Paratypes.  
*Cichlasoma milleri* Meek. Type and paratypes.  
*Cichlasoma mojarra* Meek. Type or paratype.  
*Cichlasoma nigratum* Meek. Type.  
*Cichlasoma punctatum* Meek. Type and paratypes.  
*Cichlasoma spilolum* Meek. Type and paratypes.  
*Cichlasoma tenue* Meek. Type and paratypes.  
*Cichlasoma tuba* Meek. Type or paratype?  
*Cichlasoma tuyrense* Meek and Hildebrand. Type and paratypes.  
*Cichlasoma umbriferum* Meek and Hildebrand. Type and paratypes.  
*Cichlasoma urophthalmus mayorum* Hubbs. Paratypes.  
*Cichlasoma zonatum* Meek. Type and paratype.  
*Crenicichla alta* Eigenmann. Paratype.  
*Heros beani* Jordan. Paratype.  
*Heterogramma ortmanni* Eigenmann. Paratypes.  
*Neetroplus fluviatilis* Meek. Type and paratype.  
*Neetroplus panamensis* Meek and Hildebrand. Type and paratypes.  
*Thorichthys ellioti* Meek. Type and paratypes.

## EMBIOTOCIDAE

- Crossochir koelzi* Hubbs. Paratypes.

## POMACENTRIDAE

- Eupomacentrus chrysus* Bean. Type.  
*Glyphidodon troscheli* Gill. Paratype.  
*Pomacentrus cranei* Herre. Type and paratype.  
*Pomacentrus jenkinsi* Jordan and Evermann. Paratypes.

## LABRIDAE

- Halichoeres fijiensis* Herre. Type and paratypes.  
*Hemipteronotus baldwini* Jordan and Evermann. Paratypes.  
*Iridio decoratus* Bean. Cotypes.  
*Iridio elegans* Bean. Cotypes.  
*Iridio meyeri* Bean. Type.  
*Iridio microstomus* Bean. Type.  
*Lepidaplois strophodes* Jordan and Evermann. Paratype.  
*Thalassoma cranei* Herre. Type.  
*Xyrichtys niveilatus* Jordan and Evermann. Paratype.

## SCARIDAE

- Cryptotomus crassiceps* Bean. Cotypes.  
*Scarus lauia* Jordan and Evermann. Paratype.  
*Sparisoma rhomaleum* Meek and Hildebrand. Paratype.



**BLENNIIDAE**

- Alticus novemmaculosus* Snyder. Paratypes.  
*Hypsoblennius lignus* Meek and Hildebrand. Paratype.  
*Petroscirtes kulambangrae* Herre. Type and paratypes.  
*Salarias martini* Herre. Paratypes.  
*Salarias walensis* Herre. Type and paratype.  
*Spinoblennius spiniger* Herre. Type and paratype.  
*Tagusa delicata* Herre. Type and paratypes.

**CLINIDAE**

- Emblemaria nigra* Meek and Hildebrand. Paratype.  
*Enneapterygius punctulatus* Herre. Type and paratypes.  
*Enneapterygius waigiensis* Herre. Type.  
*Gibbonsia elegans montereyensis* Hubbs. Paratypes.  
*Gibbonsia metzi* Hubbs. Paratypes.  
*Labrisomus lentiginosus* Bean. Type.  
*Malacoctenus puertoricensis* Evermann and Marsh. Paratypes.

**PHOLIDAE**

- Anoplarchus purpurascens archolepis* Hubbs. Paratypes.

**LUMPENIDAE**

- Lumpenus longirostris* Evermann and Goldsborough. Paratypes.

**DISPARICHTHYIDAE**

- Disparichthys fluviatilis* Herre. Type.

**CALLIONYMIDAE**

- Callionymus wilburi* Herre. Type and paratype.

**ACANTHURIDAE**

- Teuthis atrimentatus* Jordan and Evermann. Paratype.

**ELEOTRIDAE**

- Alepideleotris tigris* Herre. Type.  
*Boroda malua* Herre. Type and paratypes.  
*Eleotris isthmensis* Meek and Hildebrand. Type and paratypes.  
*Eleotris latifasciatus* Meek and Hildebrand. Type and paratypes.  
*Eleotris macrolepis* Meek. Type.  
*Euleptoelotris clarki* Hildebrand. Paratypes.  
*Euleptoelotris shropshirei* Hildebrand. Paratype.  
*Leptophilypnus fluviatilis* Meek and Hildebrand. Type and paratypes.  
*Microeleotris mindii* Meek and Hildebrand. Type and paratypes.  
*Microeleotris panamensis* Meek and Hildebrand. Type and paratypes.

**GOBIIDAE**

- Amblygobius myersi* Herre. Type.  
*Aparrius aurocingulus* Herre. Type and paratypes.

## GOBIIDAE—continued

- Atuona tricuspida* Herre. Type and paratypes.  
*Callogobius ocellatus* Herre. Type.  
*Chasmias misakius* Jordan and Snyder. Paratypes.  
*Cryptocentrus geniornatus* Herre. Type.  
*Ctenogobius aterrimus* Herre. Type.  
*Ctenogobius malekulae* Herre. Type.  
*Ctenogobius waigiensis* Herre. Type and paratypes.  
*Euctenogobius liolepis* Meek and Hildebrand. Paratypes.  
*Euctenogobius panamensis* Meek and Hildebrand. Paratypes.  
*Evorthodus minutus* Meek and Hildebrand. Paratype.  
*Gerhardinus nudus* Meek and Hildebrand. Paratypes.  
*Gladiogobius ensifer* Herre. Type.  
*Glossogobius koragensis* Herre. Type and paratype.  
*Gnatholepis corlettei* Herre. Type and paratypes.  
*Gnatholepis knighti* Jordan and Evermann. Paratypes.  
*Gobius claytonii* Meek. Type and paratypes.  
*Gobius cliffordpopei* Nichols. Paratypes.  
*Gobius parvus* Meek. Type and paratypes.  
*Macgregorella badia* Herre. Type.  
*Macgregorella santa* Herre. Type and paratypes.  
*Rhinogobius mowbrayi* Bean. Type.  
*Sagamia russula* Jordan and Snyder. Paratypes.  
*Sicydium altum* Meek. Type and paratypes.  
*Sicydium montanum* Hubbs. Type and paratypes.  
*Suruga fundicola* Jordan and Snyder. Paratypes.  
*Vaimosa balleata* Herre. Type.  
*Vaimosa osgoodi* Herre. Type.

## SCORPAENIDAE

- Pterois ellioti* Meek. Type.  
*Sebastapistes badio-rufus* Herre. Type.

## TRIGLIDAE

- Prionotus aspersus* Meek and Hildebrand. Paratypes.

## COTTIDAE

- Clinocottus analis australis* Hubbs. Paratypes.  
*Leptocottus armatus australis* Hubbs. Paratypes.

## ACHIRIDAE

- Achirus fluviatilis* Meek and Hildebrand. Paratypes.

## CYNOGLOSSIDAE

- Dollfusichthys sinus arabici* Chabanaud. Paratype.

## MONACANTHIDAE

- Monacanthus tuckeri* Bean. Cotypes.

**TETRAODONTIDAE**

*Sphoeroides kendalli* Meek and Hildebrand. Paratype.

**GOBIESOCIDAE**

*Cotylis nigripinnis woodsi* Schultz. Type.

*Gobiesox costaricensis* Meek. Type and paratypes.

*Gobiesox fulvus* Meek. Type.

*Gobiesox paradiseus* Herre. Type.

**BATRACHOIDIDAE**

*Porichthys myriaster* Hubbs and Schultz. Paratypes.

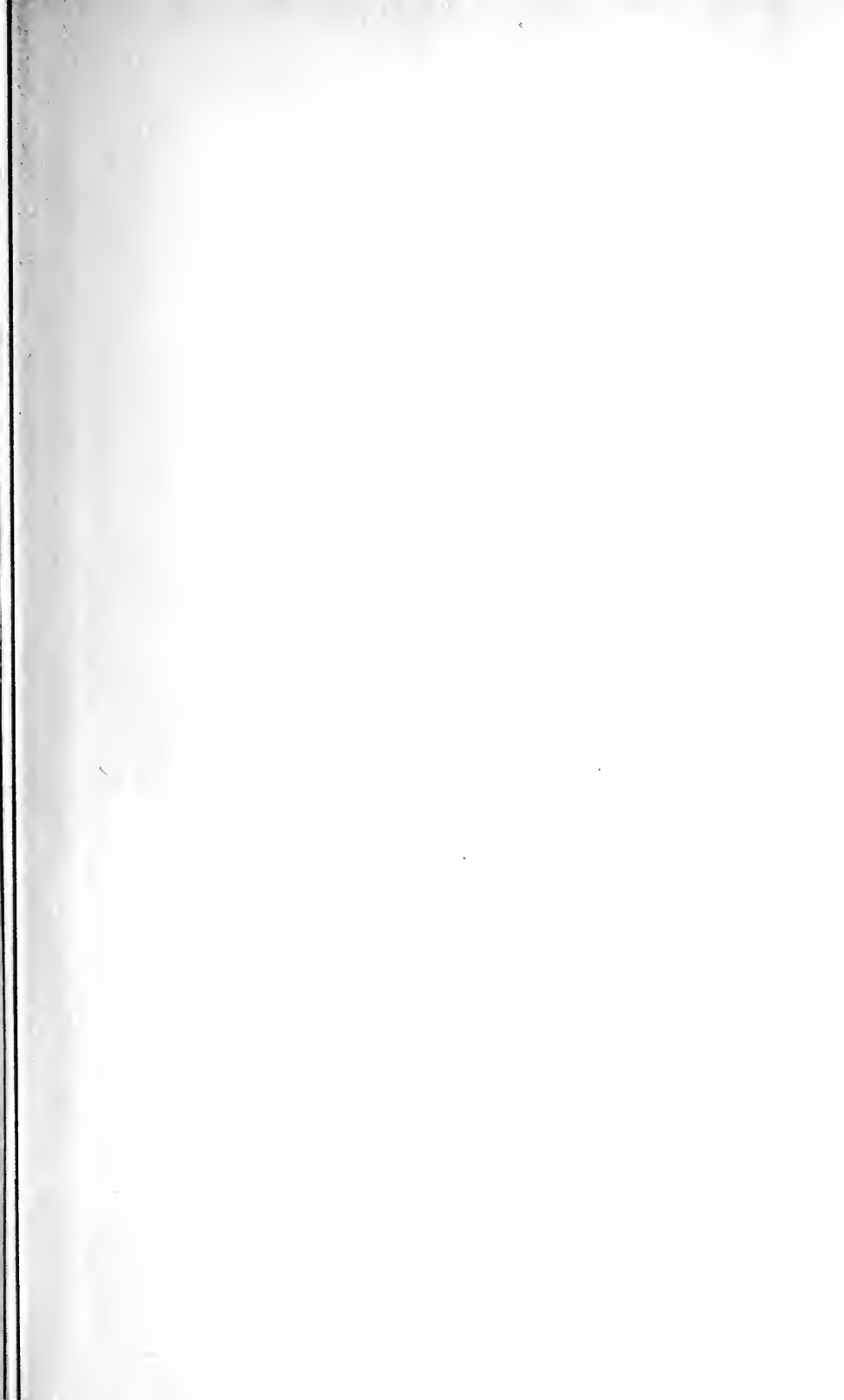
**ANTENNARIIDAE**

*Antennarius verrucosus* Bean. Type.















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