
A CHECK-LIST
OF THE
FISHES AND FISH-LIKE VERTEBRATES
OF
NORTH AND MIDDLE AMERICA.
BY
DAVID STARR JORDAN, PH. D.,
President of Leland Stanford Jr. University and of the California Academy of Sciences,
AND
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Ichthyologist of the United States Fish Commission.

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PREFACE.

The present paper is a list of all the species of fishes and fish-like vertebrates thus far recorded as occurring in American waters north of the Isthmus of Panama. For the sake of greater completeness the marine fishes of Guiana, Ecuador, and the Galapagos Islands are included, as all of these are sure, sooner or later, to be found within our limits. In like manner the few species known from Kamchatka are included as part of the fauna of the Alaskan Sea.

The sequence and nomenclature is that of Jordan & Evermann, "Fishes of North and Middle America," a descriptive catalogue forming Bulletin 47 of the United States National Museum. Of this work, Volume I, *Branchiostomatidæ* to *Priacanthidæ*, is now printed, but not published; Volume II is still in manuscript. It is expected that both will be published within the present year. The differences between the nomenclature given in this check-list and that of the work in question arise from the incorporation of new material into the one work after the printing of the other.

In both these memoirs, the rules of nomenclature as laid down by the American Ornithologists' Union have been followed implicitly, with two exceptions. The first of these exceptions concerns Canon XVII, 2, which gives to specific names applied to males precedence over names used for females, when the two occur on the same page. In such cases of synchronous names we have awarded priority to the name standing first on the page, regardless of other considerations. The other exception is the rule abandoning a name (as *Scaphirhynchus*,

Xiphidion, *Canthidermis*, etc.) when a prior generic name is of like etymology and of nearly the same spelling (as *Scaphorhynchus*, *Xiphidium*, or *Acanthoderma*). We regard all generic names as different unless originally spelled alike, and the original orthography (misprints aside) is in all cases retained.

With each species is given its geographical range, so far as known, and a reference to the first description under the specific name adopted by us. The locality following this reference is the type locality of the species. The name in parenthesis following the reference to the generic name is that of the species taken by the describer as the type of the genus.

At the end of the catalogue of native species will be found a list of the principal introduced species, especially those which have become well established in American waters.

The authors desire to acknowledge their indebtedness to Dr. Theodore Gill for valuable assistance in various ways in the preparation of this catalogue. His wide acquaintance with zoological literature has enabled them to complete and verify many references which otherwise might have remained incomplete or erroneous.

Thanks are also due Mr. Barton A. Bean for assistance in the verification of references.

DAVID STARR JORDAN.

BARTON WARREN EVERMANN.

PALO ALTO, CALIFORNIA, *May 21, 1896.*

CHECK-LIST OF THE FISHES AND FISH-LIKE VERTEBRATES OF NORTH AND MIDDLE AMERICA.

Class I. LEPTOCARDII. The Lancelets.

Order A. AMPHIOXI. The Cirrostomes.

Family I. BRANCHIOSTOMATIDÆ. The Lancelets.

Genus 1. BRANCHIOSTOMA Costa.

Branchiostoma Costa, Cenni Zoologici Napol., 49, 1834 (*lubricum* = *lanceolatum*).

1. *Branchiostoma lanceolatum* (Pallas). *European Lancelet*; *Amphioxus*.
Mediterranean; southern England; Scandinavia; Chesapeake Bay.
Limax lanceolatus Pallas, Spicilegium Zool., x, 19, 1774, Cornwall.
2. *Branchiostoma caribæum* Sundevall. *West Indian Lancelet*.
Atlantic coast of America from Beaufort, N. C., to the mouth of the La Plata;
abundant off the Carolina coast and in localities in Florida (Port Tampa),
Jamaica, Brazil, etc.
Branchiostoma caribæum Sundevall, Ölfers, Vet. Akad. Förhandl. 1853, 12, St.
Thomas; Rio Janeiro.
3. *Branchiostoma californiense* Gill. *California Lancelet*.
Pacific coast of North America from San Diego Bay southward.
Branchiostoma californiense Gill, in Andrews, Studies Biol. Lab. Johns Hopkins
Univ., v, 241, 1893, San Diego, California.

Genus 2. ASYMMETRON Andrews.

Asymmetron Andrews, Studies Biol. Lab. Johns Hopkins Univ., v, 237, 1893
(*lucayanum*).

4. *Asymmetron lucayanum* Andrews. *Bahama Lancelet*.
Bemini and Nassau, Bahamas.
Asymmetron lucayanum Andrews, Studies Biol. Lab. Johns Hopkins Univ., v,
237, 1893, Bemini, Bahama Islands.

Class II. MARSIPOBRANCHII. The Lampreys.

Order B. HYPEROTRETI. The Hagfishes.

Family II. HEPTATREMIDÆ. The Borers.

Genus 3. POLISTOTREMA Gill.

Polistotrema Gill, Proc. U. S. Nat. Mus. 1880, 30 (*dombey*).

5. *Polistotrema stouti* (Lockington). *California Hagfish*; *Lamperina*.
Coast of California; Monterey.
Bdellostoma stouti Lockington, Amer. Nat. 1878, 793, Eol River, California.

Family III. MYXINIDÆ. The Hagfishes.

Genus 4. MYXINE Linnæus.

Myxine Linnæus, Systema Naturæ, ed. x, 650, 1758 (*glutinosa*).

6. *Myxine glutinosa* Linnæus. *Hagfish*; *Borer*.
North Atlantic, on both coasts. Not abundant in America; south to Delaware.
Myxine glutinosa Linnæus, Syst. Nat., ed. x, 650, 1758, Atlantic Ocean.

Order C. HYPEROARTII. The Lampreys.

Family IV. PETROMYZONIDÆ. The Lampreys.

Genus 5. BATHYMYZON Gill.

Bathymyzon Gill, Proc. U. S. Nat. Mus. 1883, 254 (*bairdii*).

7. *Bathymyzon bairdii* Gill.

Gulf Stream.

Petromyzon (Bathymyzon) bairdii Gill, Proc. U. S. Nat. Mus. 1883, 254, Gulf Stream at lat. 49° N., in 547 fathoms.

Genus 6. PETROMYZON (Artedi) Linnæus.

Petromyzon (Artedi) Linnæus, Systema Naturæ, ed. x, 230, 1758 (*marinus*).

8. *Petromyzon marinus* Linnæus. Great Sea Lamprey; Lamprey Eel.

Atlantic coasts of Europe and North America, southward to Chesapeake Bay. *Petromyzon marinus* Linnæus, Syst. Nat., ed. x, 230, 1758, European seas; after Artedi.

8a. *Petromyzon marinus unicolor* (DeKay).

Lakes of northern and central New York.

Ammocetes unicolor DeKay, N. Y. Fauna: Fishes, 383, 1842, Lake Champlain.

Genus 7. ICHTHYOMYZON Girard. River Lampreys.

Ichthyomyzon Girard, Pac. R. R. Surv., x, 381, 1858 (*argenteus*).

9. *Ichthyomyzon concolor* (Kirtland). Silvery Lamprey.

Great Lakes, Upper Mississippi Valley, and Rainy River.

Ammocetes concolor Kirtland, Bost. Jour. Nat. Hist., III, 1840, 473, with plate, Mahoning and Scioto rivers, Ohio.

10. *Ichthyomyzon castaneus* Girard.

Mississippi Valley.

Ichthyomyzon castaneus Girard, Pac. R. R. Surv., x, 381, 1858, Galena, Minn.

Genus 8. ENTOSPHEENUS Gill.

Entosphenus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*tridentatus*).

11. *Entosphenus tridentatus* (Gairdner).

Pacific Coast of America, Unalaska to southern California.

Petromyzon tridentatus Gairdner, in Richardson, Fauna Bor.-Am., 293, 1836, Falls of the Walamet (now Willamette) River, Oregon.

Genus 9. LAMPETRA Gray. Brook Lampreys.

Lampetra Gray, Proc. Zool. Soc. Lond. 1851, 235 (*fluvialis*).

12. *Lampetra aurea* (Bean).

Yukon River and streams of Alaska and Kamchatka.

Ammocetes aureus Bean, Proc. U. S. Nat. Mus. 1881, 159, Yukon River

13. *Lampetra spadicea* Bean.

Guanajuato, Mexico.

Lampetra spadicea Bean, Proc. U. S. Nat. Mus. 1887, 374, Guanajuato.

14. *Lampetra cibaria* (Girard).

Pacific slope of America, from Fraser River to the Sacramento.

Ammocetes cibarius Girard, Pac. R. R. Surv., x, 383, 1858, Puget Sound.

15. *Lampetra wilderi* (Gage). Small Black Lamprey; Pride; Prick.

Western New York to Iowa, in tributaries of the Great Lakes and the Mississippi.

Ammocetes wilderi Gage, in Wilder Quarter-Century Book, 436, 1893, Cayuga Lake, New York.

Class III. PISCES. The Fishes.

Subclass SELACHII. The Sharks and Skates.

Order D. DIPLOSPONDYLI. The Notidanoid Sharks.

Family V. CHLAMYDOSELACHIDÆ. The Frilled Sharks.

Genus 10. CHLAMYDOSELACHUS Garman.

Chlamydoselachus Garman, Bull. Essex Inst., Jan. 17, 1884, 47 (*anguineus*).

16. *Chlamydoselachus anguineus* Garman.

Seas about Japan; also off Madeira; not certainly American.

Chlamydoselachus anguineus Garman, Bull. Essex Inst., Jan. 17, 1884, 47, off Japan.

Family VI. HEXANCHIDÆ. The Cow Sharks.

Genus 11. NOTORHYNCHUS Ayres.

Notorhynchus Ayres, Proc. Cal. Ac. Sci., 1, 1856, 72 (*maculatus*).

17. *Notorhynchus maculatus* Ayres.

Pacific coast of United States from Monterey northward to Washington.

Notorhynchus maculatus Ayres, Proc. Cal. Ac. Sci., 1, 1856, 72, San Francisco.

Genus 12. HEXANCHUS Rafinesque.

Hexanchus Rafinesque, Caratteri, 14, 1810 (*griseus*).

18. *Hexanchus corinus* Jordan & Gilbert. *Shovel-nosed Shark*.

Monterey Bay to Puget Sound; not common.

Hexanchus corinus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 352, Neuh Bay, Washington, and Soquel, California.

19. *Hexanchus griseus* (Gmelin). *Cow Shark*; *Caña-Bota*.

Deep water, Mediterranean to the west coast of Scotland; frequently taken in Cuba (Poey).

Squalus griseus Gmelin, Syst. Nat., 1, 1495, 1788, Mediterranean; after Broussonet.

Order E. ASTEROSPONDYLI. The Typical Sharks.

Suborder PROARTHRI. The Cestraciont Sharks.

Family VII. HETERODONTIDÆ. The Bullhead Sharks.

Genus 13. GYROPLEURODUS Gill.

Gyropleurodus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 489 (*francisci*).

20. *Gyropleurodus francisci* (Girard). *Bullhead Shark*.

Coast of California; abundant south of Point Conception.

Cestracion francisci Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Monterey.

21. *Gyropleurodus quoyi* (Fréminville).

Galapagos Islands.

Cestracion quoyi Fréminville, Mag. Zool. 1840, pl. 3, Galapagos Islands.

Suborder GALEI. The True Sharks.

Family VIII. SCYLLIORHINIDÆ. The Cat Sharks.

Genus 14. SCYLLIORHINUS Blainville. *Rousseltes*.

Scylliorhinus Blainville, Journ. Phys. 1816, 263 (*canicula*, etc.).

22. *Scylliorhinus profundorum* Goode & Bean.

Deep water, North Atlantic.

Scylliorhinus profundorum Goode & Bean, Oceanic Ichthyology, 17, 1896, Gulf Stream.

Genus 15. CATULUS Smith.*Catulus* Andrew Smith, Proc. Zool. Soc. Lond. 1837, 85 (*stellaris*).Subgenus **CATULUS** Smith.**23. Catulus xaniurus** Gilbert.

Pacific Coast of southern California.

Catulus xaniurus Gilbert, Proc. U. S. Nat. Mus. 1891, 540, off southern and lower California, in 184 to 684 fathoms.**24. Catulus brunneus** Gilbert.

Gulf of California, in deep water.

Catulus brunneus Gilbert, Proc. U. S. Nat. Mus. 1891, 542, Gulf of California.**25. Catulus cephalus** Gilbert.

Gulf of California and southward, in deep water.

Catulus cephalus Gilbert, Proc. U. S. Nat. Mus. 1891, 541, deep water near the Revillagigedo Islands, Mexico, and in the Gulf of California.**26. Catulus retifer** (Garman).

Gulf Stream, in deep water.

Scyllium retiferum (Garman, Bull. Mus. Comp. Zool., xi, 233, 1881, off coast of Virginia, in deep water.Subgenus **CEPHALOSCYLLIUM** Gill.*Cephaloscyllium* Gill, Ann. Lye. Nat. Hist. N. Y. 1861, 407 (*laticeps*).**27. Catulus uter** Jordan & Evermann. *Swell Shark*.

Monterey to San Diego; very abundant in Santa Barbara Channel.

Catulus uter Jordan & Evermann, Fishes North and Middle America, 25, 1896, Monterey, San Diego, and Santa Barbara Channel.**Family IX. GINGLYMOSTOMIDÆ. The Nurse Sharks.****Genus 16. GINGLYMOSTOMA** Müller & Henle.*Ginglymostoma* Müller & Henle, Wiegmann's Archiv, 1837, 1, 396.**28. Ginglymostoma cirratum** (Gmelin). *Nurse Shark; Gato*.

West Indies and the west coast of Mexico; occasional on our South Atlantic Coast.

Squalus cirratus Gmelin, Syst. Nat., 1, 1492, 1788, American seas; after Broussonet.**Family X. PSEUDOTRIAKIDÆ.****Genus 17. PSEUDOTRIAKIS** Capello.*Pseudotriakis* Capello, Jour. Sci. Math. Phys. Nat. Lisb. 1868, 321 (*microdon*).**29. Pseudotriakis microdon** Capello.

Portugal; Amagansett, Long Island.

Pseudotriakis microdon Capello, Jour. Sci. Math., etc., Lisb. 1868, 321, Portugal.**Family XI. GALEIDÆ. The Requiem Sharks.****Genus 18. MUSTELUS** Cuvier.*Mustelus* Cuvier, Règne Animal, ed. 1, 128, 1817 (*mustelus* and *canis*).**30. Mustelus lunulatus** Jordan & Gilbert. *Gato*.

West coast of Mexico.

Mustelus lunulatus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 108, Mazatlan.**31. Mustelus canis** (Mitchill). *Smooth Hound; Dog Shark; Boca Dulce*.

Cape Cod to Cuba, and in southern Europe.

Squalus canis Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 486, New York.

Genus 19. GALEUS Rafinesque.

Galeus Rafinesque, Caratteri Alcuni Nuovi Generi, 13, 1810 (*mustelus*, etc.; the intended type is apparently *Squalus galeus* L., though that species is not mentioned by name).

32. Galeus dorsalis (Gill).

Panama and neighboring waters, north to the Gulf of California.
Mustelus dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1864, 149, Panama.

33. Galeus californicus (Gill).

California, north to San Francisco.
Mustelus californicus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 148, San Francisco.

Genus 20. RHINOTRIACIS Gill.

Rhinotriacis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 486 (*henlei*).

34. Rhinotriacis henlei Gill.

Coast of California, from Humboldt Bay to Monterey; rather rare.
Rhinotriacis henlei Gill, Proc. Ac. Nat. Sci. Phila. 1862, 486, San Francisco.

Genus 21. TRIAKIS Müller & Henle.

Triakis Müller & Henle, Magazine of Natural History, n. s., II, 1838, 36.

35. Triakis semifasciatum Girard. Cat Shark; Leopard Shark.

Cape Mendocino to San Diego; common.
Triakis semifasciatum Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Presidio de San Francisco.

Genus 22. GALEORHINUS Blainville.

Galeorhinus Blainville, Bull. Sci. Philom. 1816, 121 (*galeus*).

36. Galeorhinus zyopterus Jordan & Gilbert. Oil Shark; Soup-fin Shark.

Coast of southern California, from San Francisco to Cerros Island; very abundant.
Galeorhinus zyopterus Jordan & Gilbert, Synopsis, 871, 1883, San Pedro, Cal.

Genus 23. GALEOCERDO Müller & Henle.

Galeocerdo Müller & Henle, Plagiostomen, 59, 1838 (*tigrinus*).

37. Galeocerdo tigrinus Müller & Henle. Tiger Shark; Alecrin; Tigrone.

Tropical seas; not rare; occasionally northward to Cape Cod and to San Diego.
Galeocerdo tigrinus Müller & Henle, Plagiostomen, 59, 1838, Pondichery.

Genus 24. PRIONACE Cantor.

Prionace Cantor, Malayan Fishes, 399, 1850 (substitute for *Prionodon*).

38. Prionace glauca (Linnaeus). Great Blue Shark.

Warm seas, occasionally taken on our coasts; more common in Europe.
Squalus glaucus Linnaeus, Syst. Nat., ed. x, 235, 1758, seas of Europe.

Genus 25. CARCHARHINUS Blainville.

Carcharhinus Blainville, Jour. Phys. 1816, 264 (*commersoni*).

Subgenus PLATYPODON Gill.

Platyodon Gill, Ann. Lyc. Nat. Hist. N. Y. 1861, 401 (*menisorrah*).

39. Carcharhinus obscurus (LeSueur). Dusky Shark.

North Atlantic; frequently taken on our coast.
Squalus obscurus LeSueur, Journ. Ac. Nat. Sci. Phila. 1818, 223, New York.

40. Carcharhinus platurhynchus (Gilbert).

Magdalena Bay to Galapagos Islands.
Eulamia platurhynchus Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Clariou Island; Socorro Island; Magdalena Bay.

41. *Carcharhinus falciformis* (Bibron). *Cazon de Playa*.
Cuba and neighboring waters.
Carcharias falciformis Bibron, in Müller & Henle, *Plagiostomen*, 47, 1838, Cuba.
42. *Carcharhinus acronotus* (Poey).
Cuba.
Squalus acronotus Poey, *Memorias*, II, 335, 1861, Havana.
43. *Carcharhinus perezii* (Poey).
Cuba.
Platyodon perezii Poey, *Enumeratio*, 195, 1875, Cuba.
44. *Carcharhinus remotus* (Valenciennes).
Martinique.
Carcharias remotus Valenciennes, in Duméril, *Hist. Nat. Poiss.*, I, 374, 1870, Martinique.
45. *Carcharhinus henlei* (Valenciennes).
Coast of Brazil northward to Guiana.
Carcharias henlei Valenciennes, in Müller & Henle, *Plagiostomen*, 46, 1838, Guiana.
- Subgenus *CARCHARHINUS* Blainville.
46. *Carcharhinus milberti* (Müller & Henle).
Cape Cod to Florida; not rare.
Carcharias (Prionodon) milberti Müller & Henle, *Plagiostomen*, 38, 1838, New York.
47. *Carcharhinus lamiella* (Jordan & Gilbert). *Bay Shark*.
San Diego Bay and southward along the Mexican coast.
Carcharias lamiella Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1882, 110, San Diego.
48. *Carcharhinus lamia* (Rafinesque). *Cub Shark; Requin; Requier; Lamia*.
Tropical parts of the Atlantic northward to Florida Keys.
Carcharias lamia Rafinesque, *Indice d'Ittiol. Sicil.*, 44, 1810, Sicily; after Lacépède.
49. *Carcharhinus platyodon* (Poey).
Cuba to Texas.
Squalus platyodon Poey, *Memorias*, II, 331, 1861, Havana.
50. *Carcharhinus fronto* (Jordan & Gilbert). *Tiburón*.
Pacific Coast of Mexico.
Carcharias fronto Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1882, 102, Mazatlan.
51. *Carcharhinus nicaraguensis* (Gill & Bransford). *Tigrone*.
Lake Nicaragua and its outlet, Rio San Juan; abundant.
Eulamia nicaraguensis Gill & Bransford, *Proc. Ac. Nat. Sci. Phila.* 1877, 190, Lake Nicaragua.
- Subgenus *ISOGOMPHODON* Gill.
Isogomphodon Gill, *Ann. Lyc. Nat. Hist. N. Y.* 1861, 401 (*oxyrhynchus*).
52. *Carcharhinus æthalarus* (Jordan & Gilbert).
Mazatlan to Panama.
Carcharias æthalarus Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1882, 104, Mazatlan.
53. *Carcharhinus limbatus* (Müller & Henle). *Çaçonetta*.
Tropical seas, north to Florida; a stray specimen taken at Woods Hole, Mass.
Carcharias (Prionodon) limbatus Müller & Henle, *Plagiost.*, 49, 1838, Martinique.
54. *Carcharhinus oxyrhynchus* (Müller & Henle).
Surinam.
Carcharias oxyrhynchus Müller & Henle, *Plagiostomen*, 41, 1838, Surinam.

Genus 26. HYPOPRION Müller & Henle.*Hypoprion* Müller & Henle, *Plagiostomen*, 34, 1838 (*macloti*).**55. Hypoprion brevirostris Poey.**

West Indies, north to Charleston, South Carolina.

Hypoprion brevirostris Poey, *Repertorio*, II, 451, tab. 4, 1868, Cuba.**56. Hypoprion signatus Poey.**

Cuba.

Hypoprion signatus Poey, *Synopsis*, 452, 1868, Cuba.**Genus 27. APRIONODON Gill.***Aprionodon* Gill, *Ann. Lyc. Nat. Hist. N. Y.*, VII, 1861, 411 (*punctatus* = *isodon*).**57. Aprionodon isodon (Müller & Henle).**

Atlantic Ocean.

Carcharias isodon Müller & Henle, *Plagiostomen*, 32, 1838, New York.**Genus 28. SCOLIODON Müller & Henle.***Scoliodon* Müller & Henle, *Wiegmann's Archiv f. Naturg.*, I, 393, 1837 (*laticaudus*).**58. Scoliodon longurio (Jordan & Gilbert).**

Pacific Coast of Mexico.

Carcharias longurio Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1882, 106, Mazatlan.**59. Scoliodon terræ-novæ (Richardson). Sharp-nosed Shark; Tiger Shark.**

Cape Cod to Brazil; very common southward along the Atlantic Coast.

Squalus (Carcharias) terræ-novæ Richardson, *Fauna Bor.-Amer.*, III, 289, 1836, Newfoundland.**Family XII. SPHYRNIDÆ. The Hammer-headed Sharks.****Genus 29. SPHYRNA Rafinesque.***Sphyrna* Rafinesque, *Indice d'Ittiol. Siciliana*, 60, 1810 (*zygæna*).**Subgenus RENICEPS Gill.***Reniceps* Gill, *Ann. Lyc. Nat. Hist. N. Y.*, VIII, 1861, 412 (*tiburo*).**60. Sphyrna tiburo (Linnaeus). Shovel-head Shark; Bonnet-head.**

Atlantic Ocean; abundant on our coast from Long Island southward, ranging to China and Mazatlan.

Squalus tiburo Linnaeus, *Syst. Nat.*, ed. x, 234, 1758, America.**Subgenus PLATYSQUALUS Swainson.***Platysqualus* Swainson, *Class. Anim.*, II, 318, 1839 ("*tiburo*" = *tudes*).**61. Sphyrna tudes (Cuvier).**

Gulf of California, West Indies, Mediterranean, and Indian Ocean.

Zygæna tudes Cuvier, in *Valenciennes, Mém. Mus.*, IX, 225, 1822, Nice; after*Pantouflier* of Risso.**Subgenus SPHYRNA Rafinesque.****62. Sphyrna zygæna (Linnaeus). Hammer-headed Shark.**

From Cape Cod and Point Conception southward.

Squalus zygæna Linnaeus, *Syst. Nat.*, ed. x, 234, 1758, Europe; America.**Family XIII. ALOPIIDÆ. The Thresher Sharks.****Genus 30. ALOPIAS Rafinesque.***Alopias* Rafinesque, *Caratteri di Alcuni Generi*, etc., 12, 1810 (*macrurus* = *vulpes*).**63. Alopias vulpes (Gmelin). Thresher; Fox Shark; Single-tail; Long-tail Shark.**

Mediterranean and Atlantic; Pacific Coast.

Squalus vulpes Gmelin, *Syst. Nat.*, I, 1496, 1788, Mediterranean; after Pennant.

Family XIV. CARCHARIIDÆ. The Sand Sharks.

Genus 31. CARCHARIAS Rafinesque.

Carcharias Rafinesque, Caratteri di Alcuni Nuovi Generi, 10, 1810 (*taurus*).

Subgenus EUGOMPHODUS Gill.

Eugomphodus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 260 (*littoralis*).

64. *Carcharias littoralis* (Mitchill). Sand Shark.

Atlantic Coast between Cape Cod and Cape Hatteras.

Squalus littoralis Mitchill, Am. Monthly Mag., 11, 1818, 328, New York.

Family XV. LAMNIDÆ. The Mackerel Sharks.

Genus 32. ISURUS Rafinesque.

Isurus Rafinesque, Caratteri di Alcuni Nuovi Generi, 11, 1810 (*oxyrhynchus*).

Subgenus ISUROPSIS Gill.

Iuropsis Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1862, 409 (*dekayi*).

65. *Isurus dekayi* (Gill). Mackerel Shark.

Cape Cod to West Indies.

Iuropsis dekayi Gill, Ann. Lyc. N. Y., VII, 1862, 409; after DeKay.

Subgenus ISURUS Rafinesque.

66. *Isurus oxyrhynchus* Rafinesque. Mackerel Shark; Pease Tondo; Cane di Mare.

Mediterranean and neighboring parts of the Atlantic; occasional on Atlantic coast of North America.

Isurus oxyrhynchus Rafinesque, Caratteri, etc., 12, 1810, Palermo

Genus 33. LAMNA Cuvier. Porbeagles.

Lamna Cuvier, Règne Animal, ed. 1, 126, 1817 (*cornubicus*).

67. *Lamna cornubica* (Gmelin). Porbeagle; Mackerel Shark.

North Atlantic and North Pacific.

Squalus cornubicus Gmelin, Syst. Nat., 1, 1497, 1788, shores of Cornwall.

Genus 34. CARCHARODON Smith. Man-eater Sharks.

Carcharodon Andrew Smith, Proc. Geol. Soc. Lond., v, 86, 1837 (*capensis* = *carcharias*).

68. *Carcharodon carcharias* (Linnæus). Man-eater Shark; Great White Shark.

Temperate and tropical parts of the Atlantic and the Pacific.

Squalus carcharias Linnæus, Syst. Nat., ed. x, 235, 1758, Europe.

Family XVI. CETORHINIDÆ. The Basking Sharks.

Genus 35. CETORHINUS Blainville.

Cetorhinus Blainville, Journ. Phys. 1816, 264 (*gunneri* = *maximus*).

69. *Cetorhinus maximus* (Gunner). Basking Shark; Pelerin; Elephant Shark.

Arctic seas, Portugal, Virginia, and California.

Squalus maximus Gunner, Trondhjem Selskabskr., III, 33, 1765, coast of Norway.

Family XVII. RHINODONTIDÆ. The Whale Sharks.

Genus 36. MICRISTODUS Gill.

Micristodus Gill, Proc. Ac. Nat. Sci. Phila. 1865, 177 (*punctatus*).

70. *Micristodus punctatus* Gill.

Gulf of California.

Micristodus punctatus Gill, Proc. Ac. Nat. Sci. Phila. 1865, 177, Gulf of California.

Order F. **CYCLOSPONDYLI.** The Cyclospondylous Sharks.Suborder **CYCLOSPONDYLI.**Family **XVIII. SQUALIDÆ.** The Dogfishes.Genus 37. **SQUALUS** (Artedi) Linnæus.

Squalus (Artedi) Linnæus, Syst. Nat., ed. x, 233, 1758 (includes all sharks).

71. **Squalus acanthias** Linnæus. *Dogfish; Picked Dogfish; Bonedog; Skittle-dog.*
North Atlantic on both coasts and about Cuba.
Squalus acanthias Linnæus, Syst. Nat., ed. x, 233, 1758, coast of Europe.

72. **Squalus sucklii** (Girard). *California Dogfish*

Aleutian Islands to Santa Barbara.

Spinax (Acanthias) sucklii Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Fort Steilacoom, Washington.

Genus 38. **CENTROSCYMNUS** Bocage & Capello.

Centroscymnus Bocage & Capello, Proc. Zool. Soc. Lond. 1864, 263 (*carolepis*).

73. **Centroscymnus cœlolepis** Bocage & Capello.

Coast of Portugal and neighboring parts of the Atlantic; Gloucester, Mass., and Nova Scotia Banks.

Centroscymnus cœlolepis-Bocage & Capello, Proc. Zool. Soc. Lond. 1864, 263, Portugal.

Genus 39. **ETMOPTERUS** Rafinesque.

Etmopterus Rafinesque, Caratteri, etc., 14, 1810 (*œuleatus*).

74. **Etmopterus pusillus** (Lowe).

Madeira, Cuba, and Cape Verdes.

Acanthidium pusillum Lowe, Proc. Zool. Soc. Lond. 1839, 91, Madeira.

Genus 40. **CENTROSCYLLIUM** Müller & Henle.

Centroscyllium Müller & Henle, Plagiostomen, 191, 1838 (*fabricii*).

75. **Centroscyllium fabricii** (Reinhardt).

Greenland seas, Gloucester, and the Nova Scotia Banks.

Spinax fabricii Reinhardt, Dansk. Vid. Selsk. Forh., 1828, III, XVI, Greenland.

Family **XIX. SOMNIOSIDÆ.** The Scymnoid Sharks.Genus 41. **SOMNIOSUS** LeSueur.

Somniosus LeSueur, Jour. Ac. Nat. Sci. Phila. 1818, 222 (*brevipinna* = *microcephalus*).

76. **Somniosus microcephalus** (Bloch). *Sleeper Shark; Nurse.*

Arctic seas, south to Cape Cod, Oregon, and France.

Squalus microcephalus Bloch & Schneider, Syst. Ichth., 135, 1801, northern seas.

Family **XX. ECHINORHINIDÆ.** The Bramble Sharks.Genus 42. **ECHINORHINUS** Blainville.

Echinorhinus Blainville, Bull. Soc. Philom. 1816, 121 (*spinus*).

77. **Echinorhinus spinosus** (Gmelin).

Atlantic coasts of Europe, America, and Africa.

Squalus spinosus Gmelin, Syst. Nat., 1, 1500, 1788, "the ocean."

Suborder TECTOSPONDYLI.

Family XXI. SQUATINIDÆ. The Angel Sharks.

Genus 43. SQUATINA Duméril.

Squatina Duméril, Zool. Analyt., 102, 1806 (*angelus* = *squatina*).

78. *Squatina squatina* (Linnæus). *Monk-fish; Angel-fish; Squato.*
Atlantic and Pacific coasts of the United States southward from Cape Cod and San Francisco; Mediterranean.
Squalus squatina Linnæus, Syst. Nat., ed. x, 233, 1758, coasts of Europe.

Order G. BATOIDEI. The Rays.

Suborder SARCURA. The Thick-tailed Rays.

Family XXII. PRISTIDÆ. The Sawfishes.

Genus 44. PRISTIS Latham.

Pristis Latham, Trans. Linn. Soc., II, 1794, 276 (*pristis*).

79. *Pristis zephyreus* Jordan & Starks. *Pez de Espada.*
Tropical seas, north to Mazatlan on the Pacific Coast; the West Indies.
Pristis zephyreus Jordan & Starks, Fishes of Sinaloa, 11, 1895, Mazatlan, Mexico.
80. *Pristis pectinatus* Latham. *Common Sawfish; Pez Sierra; Pez de Espada.*
Tropical seas; north to West Indies and Florida.
Pristis pectinatus Latham, Trans. Linn. Soc., II, 1794, 278, "in the ocean."

Family XXIII. RHINOBATIDÆ. The Guitar-Fishes.

Genus 45. RHINOBATUS Bloch & Schneider. *Guitar-fishes.*

Rhinobatus Bloch & Schneider, Syst. Ichth., 353, 1801 (*rhinobatus*).

81. *Rhinobatus lentiginosus* Garman.
From Charleston, South Carolina, southward.
Rhinobatus lentiginosus Garman, Bull. M. C. Z., VI, 168, 1880, coast of Florida.
82. *Rhinobatus stellio* Jordan & Rutter.
Jamaica.
Rhinobatus stellio Jordan & Rutter, Fishes of Jamaica, 1896, Jamaica.
83. *Rhinobatus glaucostigma* Jordan & Gilbert. *Guitarro.*
Gulf of California and southward.
Rhinobatus glaucostigma Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 210, Mazatlan.
84. *Rhinobatus leucorhynchus* Günther.
Panama and vicinity.
Rhinobatus leucorhynchus Günther, Proc. Zool. Soc. Lond. 1866, 604, Panama.
85. *Rhinobatus productus* Ayres. *Guitar-fish.*
San Francisco to San Diego.
Rhinobatus productus Ayres, in Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, Monterey.
86. *Rhinobatus percellens* (Walbaum). *Fiddler-fish; Puraque.*
West Indies to southern Brazil.
Raja percellens Walbaum, Artedi Piscium, 525, 1792; after Marcgrave.
87. *Rhinobatus spinosus* Günther.
Mexico.
Rhinobatus spinosus Günther, Cat., VIII, 518, 1870, Mexico.
88. *Rhinobatus planiceps* Garman.
Coast of Peru and Galapagos Islands.
Rhinobatus planiceps Garman, Bull. M. C. Z., VI, 168, 1880, Peru; Galapagos.

Genus 46. ZAPTERYX Jordan & Gilbert.

Zapteryx Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 53 (*exasperatus*).89. *Zapteryx exasperatus* (Jordan & Gilbert).

San Diego Bay.

Platyrhina exasperata Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 32, San Diego.90. *Zapteryx xyster* Jordan & Evermann.

Panama.

Zapteryx xyster Jordan & Evermann, Fishes North and Middle America, 65, 1896, Panama.

Genus 47. PLATYRHINOIDIS Garman.

Platyrhinoidis Garman, Proc. U. S. Nat. Mus. 1880, 522 (*triseriatus*).91. *Platyrhinoidis triseriatus* (Jordan & Gilbert).

Coast of California from Point Conception southward.

Platyrhina triseriata Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 36, Santa Barbara, California.

Family XXIV. RAJIDÆ. The Skates.

Genus 48. RAJA (Artesi) Linnæus.

Raja (Artesi) Linnæus, Syst. Nat., ed. x, 231, 1758 (*batis*).92. *Raja erinacea* Mitchill. *Common Skate; Little Skate; Tobacco Box.*

Very abundant from Virginia northward to Maine.

Raja erinacea Mitchill, Am. Jour. Sci. Arts, xi, 1825, 290, New York.93. *Raja ocellata* Mitchill. *Big Skate.*

Coast of New York, Massachusetts, and northward.

Raja ocellata Mitchill, Trans. Lit. Phil. Soc., i, 1815, 477, New York.94. *Raja fyllæ* Lütken.

Davis Straits, Greenland.

Raja fyllæ Lütken, Vid. Medd. Naturh. Foren. Kjöbenh. 1887, 1, pl. 1, Davis Straits.95. *Raja radiata* Donovan.

North Atlantic; both in America and Europe; not common on our coast.

Raja radiata Donovan, Hist. Brit. Fishes, v, pl. 114, 1820, Great Britain.96. *Raja plutonia* Garman.

Deep water off South Carolina.

Raja plutonia Garman, Bull. Mus. Comp. Zool., xi, 236, 1881, off South Carolina.97. *Raja ackleyi* Garman.

Yucatan Banks.

Raja ackleyi Garman, Bull. Mus. Comp. Zool., xi, 235, 1881, Yucatan Banks.98. *Raja ornata* Garman.

Coast of South Carolina and Florida.

Raja ornata Garman, Bull. Mus. Comp. Zool., xi, 235, 1881, off South Carolina.99. *Raja eglanteria* Bosc.

Cape Cod, southward to Florida; not very common.

Raja eglanteria Bosc, in Lacépède, Hist. Nat. Poiss., ii, 103, 1800, Charleston, S. C.100. *Raja senta* Garman.

Banks of Newfoundland to Cape Cod; in deep water.

Raja senta Garman, Proc. U. S. Nat. Mus. 1885, 43, Cape Cod Bay; Le Have Bank.101. *Raja lævis* Mitchill. *Barndoor Skate.*

New England to Florida; not uncommon northward.

Raja lævis Mitchill, Amer. Monthly Mag., ii, 1817, 327, New York.

102. *Raja rhina* Jordan & Gilbert.
Monterey to Alaska; not rare, especially northward.
Raja rhina Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 251, Monterey; San Francisco.
103. *Raja binoculata* Girard. *Big Skate of California*.
Pacific Coast from Monterey to Sitka; abundant.
Raja binoculata Girard, Proc. Ac. Nat. Sci. Phila. 1854, 196, San Francisco.
104. *Raja inornata* Jordan & Gilbert. *Common Skate of California*.
Coast of California; very abundant.
Raja inornata Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 457, San Francisco.
105. *Raja equatorialis* Jordan & Bollman.
West coast of Colombia, between Panama and the Galapagos Islands.
Raja equatorialis Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 150, off Colombia.
106. *Raja parmifera* Bean.
Coast of Alaska.
Raja parmifera Bean, Proc. U. S. Nat. Mus. 1881, 157, Unalaska.
107. *Raja stellulata* Jordan & Gilbert.
Coast of California and northward.
Raja stellulata Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 133, Monterey.
108. *Raja aleutica* Gilbert & Thoburn.
Unalaska, Aleutian Islands.
Raja aleutica Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 397, pl. 21, Saanak Pass, Aleutian Islands, at Albatross Station 3257, in 81 fathoms.
109. *Raja trachura* Gilbert.
Santa Barbara Channel.
Raja trachura Gilbert, Proc. U. S. Nat. Mus. 1891, 539, off Santa Barbara, at Albatross Station 2923, in 822 fathoms.
110. *Raja abyssiicola* Gilbert.
Queen Charlotte Island, British Columbia, in deep water.
Raja abyssiicola Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 396, pl. 20, off Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.

Family XXV. NARCOBATIDÆ. The Electric Rays.

Genus 49. TETRANARCE Gill.

Tetranarce Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1861, 387 (*occidentalis*).

111. *Tetranarce occidentalis* (Storer). *Cramp-fish; Torpedo; Numb-fish*.
Atlantic Coast of United States, Cape Cod to Cuba; not very common.
Torpedo occidentalis Storer, Am. Jour. Sci. Arts 1843, 165, Massachusetts.
112. *Tetranarce californica* (Ayres). *California Torpedo*.
Coast of California; not noticed south of Monterey.
Torpedo californica Ayres, Proc. Cal. Ac. Sci. 1854, 70, San Francisco.

Genus 50. NARCINE Henle.

Narcine Henle, Ueber *Narcine*, 31, 1834 (*brasiliensis*).

113. *Narcine brasiliensis* (Ölfers). *Trembler*.
West Indies and Brazil, occasionally northward to Key West and Pensacola.
Torpedo brasiliensis Ölfers, *Torpedo*, 19, 1831, Brazil.

Genus 51. DISCOPYGE Tschudi.

Discopyge Tschudi, Fauna Peruana, 32, 1844 (*tschudtii*).

114. *Discopyge ommata* Jordan & Gilbert.
Panama; rare.
Discopyge ommata Jordan & Gilbert, Proc. U. S. Nat. Mus. 1889, 151, Panama.

Suborder MASTICURA. The Whip-tailed Rays.

Family XXVI. DASYATIDÆ. The Sting Rays.

Genus 52. UROLOPHUS Müller & Henle. Round Sting Rays.

Urolophus Müller & Henle, Plagiostomen, 173, 1838 (*aurantiacus* = *cruciatus*).

115. *Urolophus halleri* Cooper.

Coast of California from Point Conception southward.
Urolophus halleri Cooper, Proc. Cal. Ac. Sci., III, 1863, 95, San Diego.

116. *Urolophus nebulosus* Garman.

Gulf of California to Panama.
Urolophus nebulosus Garman, Proc. U. S. Nat. Mus. 1885, 41, Colima.

117. *Urolophus umbrifer* Jordan & Starks.

West coast of Mexico.
Urolophus umbrifer Jordan & Starks, in Jordan, Fishes of Sinaloa, 17, 1895, Mazatlan, Mexico.

118. *Urolophus jamaicensis* (Cuvier). Maid.

West Indies, generally common; once (perhaps doubtfully) recorded from New Jersey.
Raja jamaicensis Cuvier, Règne Animal, ed. 1, 137, 1817, Jamaica.

119. *Urolophus mundus* (Gill).

Panama.
Urotrygon mundus Gill, Proc. U. S. Nat. Mus. 1863, 173, Panama.

120. *Urolophus goodei* Jordan & Bollman.

Panama.
Urolophus goodei Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 151, near Panama.

121. *Urolophus aspidurus* Jordan & Gilbert.

Panama.
Urolophus aspidurus Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 307, Panama.

122. *Urolophus asterias* Jordan & Gilbert.

Mazatlan to Panama.
Urolophus asterias Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 579, Mazatlan; Panama.

123. *Urolophus rogersi* Jordan & Starks.

West coast of Mexico.
Urolophus rogersi Jordan & Starks, in Jordan, Fishes of Sinaloa, 16, 1895, Mazatlan, Mexico.

Genus 53. DASYATIS Rafinesque. Sting Rays.

Dasyatis Rafinesque, Caretteri di Alcuni Nuovi Gen., 16, 1810 (*njo* = *parinaica*).

Subgenus HEMITRYGON Müller & Henle.

Hemitrygon Müller & Henle, Mag. Nat. Hist. 1837, 90 (*bennetti*).

124. *Dasyatis centrura* (Mitchill). Common Sting Ray; Stingree; Clam Cracker.

Coast of Maine to Cape Hatteras; abundant.
Raja centrura Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 479, New York.

Subgenus DASYATIS Rafinesque.

125. *Dasyatis hastata* (DeKay). Kit.

West Indies to Brazil, north to Florida and Rhode Island.
Trygon hastata DeKay, N. Y. Fauna: Fishes, 373, pl. 65, fig. 214, 1842, Rhode Island.

126. *Dasyatis gymnura* (Müller).
Surinam to Brazil, recorded from Grenada by Günther.
Trygon gymnura Müller, *Ermann's Reise um die Erde*, 25, taf. 13, 1830, Brazil.
127. *Dasyatis sabina* (LeSueur).
Streams and estuaries of Florida, abundant on both coasts.
Trygon sabina LeSueur, *Jour. Ac. Nat. Sci. Phila.*, iv, 1824, 109, Florida.
128. *Dasyatis longa* (Garman).
Gulf of California to Panama.
Dasibatis longa Garman, *Bull. Mus. Comp. Zool.*, vi, 170, 1880, Acapulco, Panama.
129. *Dasyatis dipterura* (Jordan & Gilbert).
Bay of San Diego, and southward; locally abundant.
Dasybatis dipterurus Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1880, 31, San Diego.
130. *Dasyatis say* (LeSueur). *Southern Sting Ray*.
Carolina to Brazil; common in Florida, occasional northward to New York.
Raja say LeSueur, *Jour. Ac. Nat. Sci. Phila.*, i, 1817, 42, New Jersey.

Genus 54. PTEROPLATEA Müller & Henle.

Pteroplatea Müller & Henle, *Plagiostomen*, 168, 1838 (*altavela*).

131. *Pteroplatea maclura* (LeSueur). *Butterfly Ray*.
Rhode Island to Brazil.
Raia maclura LeSueur, *Jour. Ac. Nat. Sci. Phila.* 1817, 41, Rhode Island.
132. *Pteroplatea crebripunctata* Peters.
Gulf of California southward, along the west coast of Mexico; common.
Pteroplatea crebripunctata Peters, *Monatsber. Berl. Akad.* 1869, 703, Mazatlan.
133. *Pteroplatea rava* Jordan & Starks. *Manataria Colorada*; *Manta Raia*.
West coast of Mexico.
Pteroplatea rava Jordan & Starks, in Jordan, *Fishes of Sinaloa*, 18, 1895, Mazatlan, Mexico.
134. *Pteroplatea marmorata* Cooper.
Coast of California, from Point Conception southward to Cerros Island; common.
Pteroplatea marmorata Cooper, *Proc. Cal. Ac. Sci.*, iii, 1863, 112, San Diego.

Family XXVII. MYLIOBATIDÆ. The Eagle Rays.

Genus 55. AETOBATUS Blainville.

Aëtobatus Blainville, *Jour. de Phys.*, LXXXIII, 1816, 261 (*vulgaris*, *narinari*, etc.).

135. *Aetobatus narinari* (Euphrasen). *Spotted Sting Ray*.
Tropical seas, north on Atlantic Coast to Virginia; not common on our shores.
Raia narinari Euphrasen, *Vet. Ak. Nya. Handl.*, xi, 1790, 217, Brazil.

Genus 56. MYLIOBATUS Duméril.

Myliobatis Duméril, in Cuvier, *Règne Animal*, ii, 137, 1817 (*aquila*).

Subgenus MYLIOBATUS Duméril.

136. *Myliobatis freminvillei* LeSueur.
Cape Cod to Brazil; not uncommon.
Myliobatis freminvillei LeSueur, *Jour. Ac. Nat. Sci. Phila.*, iv, 1824, 111, Rhode Island.
137. *Myliobatis goodei* Garman.
Central America.
Myliobatis goodei Garman, *Proc. U. S. Nat. Mus.* 1885, 39, Central America.

Subgenus HOLOBRINUS Gill.

Holorhinus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*vespertilio* = *californicus*).

138. *Myliobatis californicus* Gill. *California Sting Ray; Batfish*.
California, from Cape Mendocino southward.
Myliobatis californicus Gill, Ann. Lyc. Nat. Hist. N. Y. 1865, 137; after Girard.

Genus 57. RHINOPTERA Kuhl.

Rhinoptera Kuhl, in Cuvier, Règne Animal, ed. 2, vol. II, 401, 1829 (*marginata*).

Subgenus RHINOPTERA Kuhl.

139. *Rhinoptera bonasus* (Mitchill). *Cow-nose Ray*.
Cape Cod to Florida.
Raja bonasus Mitchill, Trans. Lit. and Phil. Soc. N. Y. 1815, 479, New York.
140. *Rhinoptera steindachneri* Evermann & Jenkins. *Gabilan*.
Gulf of California.
Rhinoptera steindachneri Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 130,
pl. 1, fig. 1, Guaymas, Sonora, Mexico.

Subgenus MICROMESUS Gill.

Micromesus Gill, Ann. Lyc. Nat. Hist. N. Y. 1865, 136 (*adpersus*).

141. *Rhinoptera ensenadæ* Rosa Smith.
West coast of Lower California.
Rhinoptera ensenadæ Rosa Smith, Proc. U. S. Nat. Mus. 1886, 220, Ensenada,
Lower California.

Family XXVIII. MANTIDÆ. The Sea Devils.

Genus 58. AODON Lacépède.

Aodon Lacépède, Hist. Nat. Poiss., I, 300, 1798 (*massassa*).

142. *Aodon hypostomus* (Bancroft).
Jamaica.
Cephalopterus hypostomus Bancroft, Proc. Comm. Zool. Soc. 1830, 134, Jamaica.

Genus 59. MANTA Bancroft.

Manta Bancroft, Zool. Jour., IV, 1828-29, 444 (*manta* = *birostris*).

143. *Manta birostris* (Walbaum). *Sea Devil; Devil-fish; Manta*.
Tropical waters of America; north to New Jersey and San Diego; not rare on
the Florida coast.
Raja birostris Walbaum, Artedi Piscium, 535, 1792; after *Diabolus marinus*
Willughby, etc.

Subclass HOLOCEPHALI. The Chimæras.

Order H. CHIMÆROIDEI. The Chimæroids.

Family XXIX. CHIMÆRIDÆ. The Chimæras.

Genus 60. CHIMÆRA Linnæus. *Elephant-fishes*.

Chimæra Linnæus, Syst. Nat., ed. x, 236, 1758 (*monstrosa*).

144. *Chimæra monstrosa* Linnæus. *Chimæra*.
Deep waters off the coast of Europe; also recorded by Poey at Matanzas,
Cuba.
Chimæra monstrosa Linnæus, Syst. Nat., ed. x, 236, 1758, Atlantic.

145. *Chimæra affinis* Capello.
Deep waters of the Atlantic, off Portugal and off the American coast from
Cape Cod northward.
Chimæra affinis Capello, Jour. Soc. Math. Lisb., IV, 1868, 314, pl. III, coast of
Portugal.

Genus 61. **HYDROLAGUS** Gill.*Hydrolagus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 331 (*collicii*).146. **Hydrolagus collicii** (Lay & Bennett). *Rat-fish*; *Elephant-fish*.

Pacific Coast from Monterey northward to Alaska.

Chimara collicii Lay & Bennett, Beechey's Voy., Zool., 71, 1849, North Pacific.Genus 62. **HARRIOTTA** Goode & Bean.*Harriotta* Goode & Bean, Proc. U. S. Nat. Mus. 1894 (Jan. 26, 1895), 471 (*raleighana*).147. **Harriotta raleighana** Goode & Bean.

Deep water off the North Atlantic Coast of the United States.

Harriotta raleighana Goode & Bean, Proc. U. S. Nat. Mus. 1894 (Jan. 26, 1895), 472, pl. 19, Gulf Stream at 39° N., 70° W.Subclass **TELEOSTOMI**. The True Fishes.Series **GANOIDEI**. The Ganoid Fishes.Superorder **CHONDROGANOIDEA**. The Cartilaginous Ganoids.Order I. **SELACHOSTOMI**. The Paddle-fishes.Family **XXX**. **POLYODONTIDÆ**. The Paddle-fishes.Genus 63. **POLYODON** Lacépède.*Polyodon* Lacépède, Hist. Nat. Poiss., 1, 402, 1798 (*feuille*).148. **Polyodon spathula** (Walbaum). *Paddle-fish*; *Spoon-bill Cat*; *Duck-bill Cat*; *Spade-fish*.

Mississippi Valley and rivers of the Southern States; Lake Erie.

Squalus spathula Walbaum, Artedi Piscium, 522, 1792, no locality given.Order J. **CHONDROSTEI**. The Sturgeons.Family **XXXI**. **ACIPENSERIDÆ**. The Sturgeons.Genus 64. **ACIPENSER** Linnæus. *Sturgeons*.*Acipenser* (Artedi) Linnæus, Syst. Nat., ed. x, 237, 1758 (*sturio*).149. **Acipenser transmontanus** Richardson. *White Sturgeon*; *Oregon Sturgeon*; *Sacramento Sturgeon*.

Pacific Coast, from Alaska south to Monterey; ascending the Sacramento, Columbia, and Fraser rivers in large numbers in spring.

Acipenser transmontanus Richardson, Fauna Bor.-Amer., III, 278, 1836, Fort Vancouver.150. **Acipenser medirostris** Ayres. *Green Sturgeon*.

Pacific Coast; ascending the rivers from San Francisco northward.

Acipenser medirostris Ayres, Proc. Cal. Ac. Sci., 1, 1854, 15, San Francisco.151. **Acipenser sturio** Linnæus. *Common Sturgeon*.

Atlantic coasts; ascending rivers of northern Europe and the United States.

Acipenser sturio Linnæus, Syst. Nat., ed. x, 237, 1758, seas of Europe.152. **Acipenser rubicundus** LeSueur. *Lake Sturgeon*; *Ohio Sturgeon*; *Stone Sturgeon*; *Rock Sturgeon*; *Red Sturgeon*.

Upper Mississippi Valley, Great Lakes, and northward.

Acipenser rubicundus LeSueur, Trans. Amer. Phil. Soc., 1, 1818, 388, Lake^s Ontario, Erie, and all the upper lakes.

153. *Acipenser brevirostris* LeSueur. *Short-nosed Sturgeon*.
Cape Cod to Florida; rare northward.
Acipenser brevirostrum LeSueur, Trans. Amer. Phil. Soc., 1, 1818, 390, Delaware River.

Genus 65. **SCAPHIRHYNCHUS** Heckel. *Shovel-nose Sturgeons*.
Scaphirhynchus Heckel, Ann. Wiener Mus. Naturgesch., 1, 1835, 71 (*rafinesquei* = *platorhynchus*).

154. *Scaphirhynchus platorhynchus* (Rafinesque). *Shovel-nose Sturgeon*; *White Sturgeon*.
Mississippi Valley, and streams of Western and Southern States; common.
Acipenser platorhynchus Rafinesque, Ichth. Ohiensis, 80, 1820, Ohio River.

Subclass **HOLOSTEI**. The Bony Ganoids.

Order **K. RHOMBOGANOIDEA**. The Gar Pikes.

Family **XXXII. LEPISOSTEIDÆ**. The Gar Pikes.

Genus 66. **LEPISOSTEUS** Lacépède.
Lepisosteus Lacépède, Hist. Nat. Poiss., v, 331, 1803 (*gavialis* = *osseus*).

Subgenus **LEPISOSTEUS** Rafinesque.

155. *Lepisosteus osseus* (Linnaeus). *Long-nosed Gar*; *Billfish*; *Common Gar Pike*.
Great Lakes and rivers of United States from Vermont to the Rio Grande.
Esox osseus Linnaeus, Syst. Nat., ed. x, 313, 1758; after Artedi, based on *Aous marina squamosa viridis*.

Subgenus **CYLINDROSTEUS** Rafinesque.
Cylindrosteus Rafinesque, Ichth. Ohiensis, 72, 1820 (*platostomus*).

156. *Lepisosteus platostomus* Rafinesque. *Short-nosed Gar*.
Great Lakes and Southern and Western rivers; less abundant northward.
Lepisosteus platostomus Rafinesque, Ichth. Ohiensis, 72, 1820, Ohio River.

Subgenus **ATRACTOSTEUS** Rafinesque.
Atractosteus Rafinesque, Ichth. Ohiensis, 72, 1820 (*ferox*).

157. *Lepisosteus tristoechus* (Bloch & Schneider). *Alligator Gar*; *Great Gar*; *Manjuari*.
Rivers of the Southern States; Cuba and northern Mexico; north to St. Louis and Cincinnati.
Esox tristachus Bloch & Schneider, Syst. Ichth., 395, 1801, Cuba; after Manjuari of Para.

158. *Lepisosteus tropicus* (Gill).
Streams of the Pacific Coast of Central America.
Atractosteus tropicus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 172, streams near Panama.

Order **L. CYCLOGANOIDEA**. The Bowfins.

Family **XXXIII. AMIIDÆ**. The Bowfins.

Genus 67. **AMIA** Linnaeus. *Bowfins*.
Amia Linnaeus, Syst. Nat., ed. XII, 500, 1766 (*calva*).

159. *Amia calva* Linnaeus. *Mudfish*; *Dogfish*; *Bowfin*; *Grindle*; "*John A. Grindle*"; *Lawyer*; *Poisson de Marais*.
Great Lakes and sluggish waters from Minnesota to Virginia, Florida, and Texas; abundant.
Amia calva Linnaeus, Syst. Nat., ed. XII, 500, 1766, Charleston, South Carolina.

Series TELEOSTEI. The Bony Fishes.

Subclass OSTARIOPHYSI.

Order M. NEMATOGNATHI. The Catfishes.

Family XXXIV. SILURIDÆ. The Catfishes.

Genus 68. FELICHTHYS Swainson. *Gaff-topsail Catfishes.*

Felichthys Swainson, Nat. Hist. Fishes, II, 305, 1839, substitute for *Breviceps* (bagre).

160. *Felichthys panamensis* (Gill).
Mazatlan to Panama; common.
Ailurichthys panamensis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 172, Panama.
161. *Felichthys bagre* (Linnæus).
Coast of Brazil, accredited to the West Indies, but rare north of Surinam.
Silurus bagre Linnæus, Syst. Nat., ed. XII, 505, 1766, South America; after Gronow.
162. *Felichthys pinnimaculatus* (Steindachner).
Mazatlan to Panama.
Ailurichthys pinnimaculatus Steindachner, Ichth. Boitr., IV, 15, 1875, Panama, Altata, Costa Rica.
163. *Felichthys eydouxii* (Cuvier & Valenciennes).
Guayaquil.
Galeichthys eydouxii Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 43, 1840, Guayaquil.
164. *Felichthys filamentosus* Swainson.
Atlantic Coast of tropical America.
Felichthys filamentosus Swainson, Nat. Hist. Anim., II, 305, 1839; after Bloch, pl. 365.
165. *Felichthys marinus* (Mitchill). *Sea Catfish; Gaff Topsail.*
Cape Cod to Texas.
Silurus marinus Mitchill, Trans. Lit. and Phil. Soc. N. Y., I, 1815, 433, New York.
166. *Felichthys bahiensis* (Castelnau).
Mexico to Bahia.
Galeichthys bahiensis Castelnau, Anim. Amer. Sud, 37, 1855, Bahia.
- Genus 69. GALEICHTHYS Cuvier & Valenciennes. *Sea Catfishes.*
Galeichthys Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 28, 1840 (*feliceps*).
167. *Galeichthys lentiginosus* (Eigenmann & Eigenmann).
Panama.
Tachisurus lentiginosus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 139, Panama.
168. *Galeichthys peruvianus* Lütken.
Pacific Coast of Mexico to Peru.
Galeichthys peruvianus Lütken, Vidensk. Med. 1874, 204, Callao, Peru.
- Subgenus HEXANEMATICTHYS Bleeker.
Hexanematischthys Bleeker, Ichthyol. Archip. Indici Siluri, 61, 1858 (*sundaicus*).
169. *Galeichthys felis* (Linnæus). *Sea Catfish.*
Cape Cod to Texas.
Silurus felis Linnæus, Syst. Nat., ed. XII, 503, 1766, Charleston, South Carolina.
170. *Galeichthys seemani* (Günther).
Panama.
Arius seemani Günther, Cat., v, 147, 1864, "Central America."

171. *Galeichthys gilberti* Jordan & Williams.
Coast of Sinaloa, Mexico.
Galeichthys gilberti Jordan & Williams, Fishes of Sinaloa, in Proc. Cal. Ac. Sci. 1895, 395, pl. 26, Mazatlan, Sinaloa.
172. *Galeichthys jordani* (Eigenmann & Eigenmann).
Panama.
Tachisurus jordani Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 142, Panama.
173. *Galeichthys cærulescens* (Günther).
West coast of Guatemala.
Arius cærulescens Günther, Cat., v, 149, 1864, Rio Huamuchal, Guatemala.
174. *Galeichthys guatemalensis* (Günther).
Mazatlan to Central America.
Arius guatemalensis Günther, Cat., v, 145, 1864, Guatemala; Chiapas.
175. *Galeichthys assimilis* (Günther).
Atlantic Coast of Central America.
Arius assimilis Günther, Cat., v, 146, 1864, Lake Yzabal, Guatemala.
176. *Galeichthys surinamensis* (Bleeker).
Surinam.
Hexanemichthys surinamensis Bleeker, Versl. Med. Akad. Wet. Amsterd. 1862, 380, Surinam.
177. *Galeichthys azureus* Jordan & Williams. *Bagre Azul*.
Coast of Sinaloa, Mexico.
Galeichthys azureus Jordan & Williams, Fishes of Sinaloa, in Proc. Cal. Ac. Sci. 1895, 398, pl. 27, Mazatlan, Mexico.
178. *Galeichthys dasycephalus* (Günther).
Panama.
Arius dasycephalus Günther, Cat., v, 157, 1864, Oahu; apparently an error.
179. *Galeichthys longicephalus* (Eigenmann & Eigenmann).
Panama.
Tachisurus longicephalus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 143, Panama.
180. *Galeichthys rugispinis* (Cuvier & Valenciennes).
Surinam to Para.
Arius rugispinis Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 77, 1840, Cayenne.
181. *Galeichthys phrygiatus* (Cuvier & Valenciennes).
Surinam to Maranhão.
Arius phrygiatus Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 79, 1810, Cayenne.
- Genus 70. *SCIADEICHTHYS* Bleeker.
Sciaideichthys Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*emphysetus*).
182. *Sciaideichthys troscheli* (Gill). *Bagre Colorado*.
Mazatlan to Panama.
Sciaedes troscheli Gill, Proc. Ac. Nat. Sci. Phila. 1863, 171, Panama.
183. *Sciaideichthys emphysetus* (Müller & Troschel).
Surinam.
Bagrus (Sciaedes) emphysetus Müller & Troschel, Horw. Ichthyol., III, 8, 1849, Surinam.
184. *Sciaideichthys temminckianus* (Cuvier & Valenciennes).
Cayenne, French Guiana.
Bagrus temminckianus Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 463, 1839, Cayenne, French Guiana.

185. *Sciadeichthys flavescens* (Cuvier & Valenciennes).

Cayenne, French Guiana.

Bagrus flavescens Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 462, 1839, Cayenne, French Guiana.**186. *Sciadeichthys mesops* (Cuvier & Valenciennes).**

French Guiana.

Bagrus mesops Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 456, 1839, French Guiana.**187. *Sciadeichthys proops* (Cuvier & Valenciennes).**

West Indies from Porto Rico to Surinam and south to Pernambuco.

Bagrus proops Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 457, 1839, Cayenne, French Guiana; Surinam; Porto Rico.**188. *Sciadeichthys passany* (Cuvier & Valenciennes).**

Cayenne, French Guiana.

Bagrus passany Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 458, 1839, Cayenne, French Guiana.**189. *Sciadeichthys albicans* (Cuvier & Valenciennes).**

Guiana to the Amazon.

Bagrus albicans Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 461, pl. 420, 1839, Cayenne, French Guiana.**Genus 71. SELENASPIS Bleeker.***Selenaspis* Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*herzbergii*).**190. *Selenaspis herzbergii* (Bloch).**

Coasts of South America from Cayenne to Para; common.

Silurus herzbergii Bloch, Ichthyol., VIII, 33, pl. 367, 1801, Surinam.**191. *Selenaspis dowii* (Gill).**

Panama to Guayquil.

Leptariius dowii Gill, Proc. Ac. Nat. Sci. Phila. 1863, 170, Panama.**192. *Selenaspis parkeri* (Traill). Bresson.**

Guiana to Para.

Silurus parkeri Traill, Mem. Werner. Soc., VI, 1832, 377, pl. 6, Guiana.**193. *Selenaspis luniscutis* (Cuvier & Valenciennes).**

Surinam to Rio Janeiro; common.

Arius luniscutis Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 109, 1840, Brazil.**Genus 72. NETUMA Bleeker.***Netuma* Bleeker, Ichthyol. Archip. Indici Siluri, 62, 1858 (*nasuta*).**Subgenus NOTARIUS Gill.***Notarius* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 170 (*dowi*).**194. *Netuma grandicassis* (Cuvier & Valenciennes).**

Guiana to Bahia.

Arius grandicassis Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 53, pl. 427, 1840, Guiana.**195. *Netuma stricticassis* (Cuvier & Valenciennes).**

Surinam to Bahia.

Arius stricticassis Cuvier & Valenciennes, Hist. Nat. Poiss., XV, 58, 1840, Cayenne, French Guiana.**196. *Netuma dubia* (Bleeker).**

Surinam.

Netuma dubia Bleeker, Versl. Med. Ac. Wet. Amsterd., XIV, 1862, 382, Surinam.

197. *Netuma kessleri* (Steindachner).
Altata to Panama.
Arius kessleri Steindachner, Ichth. Beitr., iv, 24, 1876, Altata; Panama.
198. *Netuma in sculpta* (Jordan & Gilbert).
Panama.
Arius in sculptus Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 41, Panama.
199. *Netuma planiceps* (Steindachner).
Altata to Panama.
Arius planiceps Steindachner, Ichth. Beitr., iv, 1876, 26, Altata; Panama.
200. *Netuma platypogon* (Günther).
Gulf of California to Peru.
Arius platypogon Günther, Cat., v, 147, 1864, San José de Guatemala.
201. *Netuma oscula* (Jordan & Gilbert).
Panama.
Arius osculus Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 46, Panama.
202. *Netuma elattura* (Jordan & Gilbert).
Panama.
Arius elatturus Jordan & Gilbert, Bull. U. S. Fish Com. 1882 (1883), 45, Panama.
203. *Netuma insularum* Flora Hartley Greene.
Galapagos Islands.
Netuma insularum Flora Hartley Greene, in Jordan & Evermann, Fishes North and Middle America, 73, 1896, Galapagos Islands.
- Genus 73. **TACHYSURUS** Lacépède.
Tachysurus Lacépède, Hist. Nat. Poiss., v, 151, 1803 (*chinensis*).
204. *Tachysurus nuchalis* (Günther).
Guiana.
Arius nuchalis Günther, Cat., v, 171, 1864, British Guiana.
205. *Tachysurus fissus* (Cuvier & Valenciennes).
Surinam.
Arius fissus Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 107, 1840, Cayenne.
206. *Tachysurus spixii* (Agassiz).
Coast of Guiana and Brazil, south to Santos.
Pimelodus spixii Agassiz, Gen. Spec. Pisc. Brasil., 19, 1829; after Spix.
207. *Tachysurus melanopus* (Günther).
Both coasts of Central America; Rio Motagua; Panama.
Arius melanopus Günther, Cat., v, 172, 1864, Rio Motagua.
208. *Tachysurus furthii* (Steindachner).
Panama.
Arius furthii Steindachner, Ich. Beitr., iv, 29, 1876, Panama.
209. *Tachysurus liropus* Bristol.
San Juan Lagoon, Rio Ahome, Sonora.
Tachysurus liropus Bristol ms., San Juan Lagoon, Rio Ahome, Sonora.
210. *Tachysurus variolosus* (Cuvier & Valenciennes).
Cayenne, French Guiana.
Arius variolosus Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 107, 1840, Cayenne, French Guiana.
211. *Tachysurus multiradiatus* (Günther).
Rio Bayano, near Panama.
Arius multiradiatus Günther, Cat., v, 173, 1864, Rio Bayano; after Kner.

Genus 74. CATHOROPS Jordan & Gilbert.*Cathorops* Jordan & Gilbert, Bull. U. S. Fish. Com. 1882, 54 (*hypophthalmus*).**212. Cathorops hypophthalmus** (Steindachner).

Panama.

Arius hypophthalmus Steindachner, Ichth. Beitr., iv, 31, pl. 10, 1875, Panama.**213. Cathorops gulosus** (Eigenmann & Eigenmann).

Panama.

Tachisurus gulosus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 146, Panama.**Genus 75. ICTALURUS** Rafinesque. *Channel Cats.**Ictalurus* Rafinesque, Ichth. Ohiensis, 61, 1820 (*maculatus* = *punctatus*).**214. Ictalurus furcatus** (LeSueur). *Chuckle-head Cat.*

Ohio to Iowa and Texas.

Pimelodus furcatus LeSueur, in Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 136, 1840, New Orleans.**215. Ictalurus punctatus** (Rafinesque). *Channel Cat; White Cat; Blue Cat.*

Rivers of Great Lakes region and Mississippi Valley and streams tributary to the Gulf of Mexico.

Silurus punctatus Rafinesque, Amer. Month. Mag. 1818, 359, Ohio River.**216. Ictalurus meridionalis** (Günther).

Rio Usamacinta, Guatemala.

Amiurus meridionalis Günther, Cat., v, 102, 1864, Rio Usamacinta.**Genus 76. VILLARIUS** Rutter.*Villarius* Rutter, Proc. Cal. Ac. Sci. 1896, 256 (*pricei*).**217. Villarius pricei** Rutter.

Northwestern Mexico.

Villarius pricei Rutter, Proc. Cal. Ac. Sci. 1896, 257, Rio Yaqui, Sonora.**218. Villarius dugesi** (Bean).

Rio Turbio, Guanajuato, Mexico, west of the Sierra Madre.

Amiurus dugesi Bean, Proc. U. S. Nat. Mus. 1879, 304, Rio Turbio, Mexico.**Genus 77. AMEIURUS** Rafinesque.*Ameiurus* Rafinesque, Ichth. Ohiensis, 65, 1820 (*cupreus* = *natalis*).**Subgenus HAUSTOR** Jordan & Evermann.*Haustor* Jordan & Evermann, Fishes North and Middle America, 137, 1896 (*lacustris*).**219. Ameiurus lacustris** (Walbaum). *Catfish of the Lakes; Great Fork-tailed Cat; Mississippi Cat; Florida Cat; Flannel-mouth Cat; Mathemeg, or Ugly Fish.*

Saskatchewan River and Great Lakes to Florida and Texas.

Gradus lacustris Walbaum, Artdi Piscium, 144, 1792, Arctic America.**220. Ameiurus lupus** (Girard).

Rio Nueces and Rio Pecos, Texas.

Pimelodus lupus Girard, Pac. R. R. Surv., x, 211, 1858, Rio Pecos, Texas.**221. Ameiurus catus** (Linnaeus). *White Cat; Channel Cat of the Potomac.*

Delaware River to Texas; introduced into Sacramento and San Joaquin rivers.

Silurus catus Linnaeus, Syst. Nat., ed. x, 305, 1758, northern part of America.**222. Ameiurus okeechobeensis** (Heilprin). *Okeechobee Catfish.*

Florida.

Ictalurus okeechobeensis Heilprin, Trans. Wagner Inst. Sci. Phila., i, 1887, 129, pl. 18, Kissimee River, Florida.

Subgenus AMEIURUS Rafinesque.

223. *Ameiurus erebennus* Jordan.
New Jersey to Florida.
Ameiurus erebennus Jordan, Bull. U. S. Nat. Mus., x, 85, figs. 19 and 20, 1877,
St. Johns River, Florida.
224. *Ameiurus natalis* (LeSueur). *Yellow Cat*.
Great Lakes region to Virginia and Texas.
Pimelodus natalis LeSueur, Mém. Mus., v, 154, 1819, North America.
225. *Ameiurus vulgaris* (Thompson).
Vermont to Minnesota and Illinois.
Pimelodus vulgaris Thompson, Hist. Vermont, 138, 1842, Lake Champlain.
226. *Ameiurus nebulosus* (LeSueur). *Horned Pout; Common Bullhead; Schuylkill Cat; Small Catfish; Sacramento Cat*.
Great Lakes, Ohio Valley, eastward to Maine, southwestward to Texas, and southeastward to Florida; introduced into the Sacramento, San Joaquin, Humboldt, and Gila rivers.
Pimelodus nebulosus LeSueur, Mém. Mus., v, 149, 1819, Lake Ontario.
- 226a. *Ameiurus nebulosus catulus* (Girard).
Texas and northward into Arkansas.
Pimelodus catulus Girard, Pac. R. R. Surv., x, 208, 1858, Fort Smith, Arkansas.
- 226b. *Ameiurus nebulosus marmoratus* (Holbrook).
Indiana to Florida.
Pimelodus marmoratus Holbrook, Jour. Ac. Nat. Sci. Phila. 1855, 54, South Carolina.
227. *Ameiurus melas* (Rafinesque). *Black Bullhead; Small Catfish*.
Northern New York to Kansas and Texas.
Silurus melas Rafinesque, Quart. Jour. Sci. Lit. Arts Lond. 1820, 51, Ohio River.
228. *Ameiurus platycephalus* (Girard). *Mud Cat; Brown Cat*.
Carolina and eastern Georgia, from Cape Fear River to the Chattahoochee.
Pimelodus platycephalus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 161, Anderson, South Carolina.
- Subgenus GRONIAS Cope.
Gronias Cope, Proc. Ac. Nat. Sci. Phila. 1864, 231 (*nigrilabris*).
229. *Ameiurus nigrilabris* (Cope).
Cave streams tributary to Conestoga River in eastern Pennsylvania.
Gronias nigrilabris Cope, Proc. Ac. Nat. Sci. Phila. 1864, 231, Conestoga River, Pennsylvania.
- Genus 78. LEPTOPS Rafinesque.
Leptops Rafinesque, Ichth. Ohnensis, 64, 1820 (*viscosus* = *olivaris*).
230. *Leptops olivaris* (Rafinesque). *Mud Cat; Yellow Cat; Bashaw; Russian Cat*.
Rivers of the Mississippi Valley and Southern States, southwest to Chihuahua, Mexico.
Silurus olivaris Rafinesque, Amer. Month. Mag. 1818, 355, Ohio River.
- Genus 79. NOTURUS Rafinesque. *Stone Cats*.
Noturus Rafinesque, Amer. Month. Mag., November, 1818, 41 (*flavus*).
231. *Noturus flavus* Rafinesque. *Stone Cat*.
Great Lakes region, westward and south to Montana, Wyoming, and Texas.
Noturus flavus Rafinesque, Amer. Month. Mag. 1818, 41, Falls of Ohio River.

Genus 80. **SCHILBEODES** Bleeker. *Mad Toms.*

Schilbeodes Bleeker, Ichth. Archip. Indici. Prodr. Siluri., 258, 1858 (*gyrinus*).

Subgenus **SCHILBEODES** Bleeker.

232. **Schilbeodes gyrinus** (Mitchill).

Hudson River and westward through the Mississippi Valley, the upper lake region, and Rainy River.

Silurus gyrinus Mitchill, Amer. Month. Mag. 1818, 322, Walkill River, New York.

233. **Schilbeodes leptacanthus** (Jordan).

Gulf States.

Noturus leptacanthus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 352, Etowah River, Rome, Georgia.

Subgenus **RABIDA** Jordan & Evermann.

Rabida Jordan & Evermann, Fishes North and Middle America, 146, 1896 (*furiosus*).

234. **Schilbeodes nocturnus** (Jordan & Gilbert).

Lower Wabash River in Indiana, and the Poteau, Washita, and Saline rivers, Arkansas.

Noturus nocturnus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 6, Saline River at Benton, Arkansas.

235. **Schilbeodes funebris** (Gilbert & Swain).

Tributary of Black Warrior River, Tuscaloosa, Alabama.

Noturus funebris Gilbert & Swain, Bull. U. S. Fish. Com. 1889, 153, North River, Tuscaloosa, Alabama.

236. **Schilbeodes exilis** (Nelson).

Wisconsin to Missouri and Kansas.

Noturus exilis Nelson, Bull. Ill. Lab. Nat. Hist., vol. 1, No. 1, 51, 1876, Illinois River.

237. **Schilbeodes insignis** (Richardson). *Mad Tom.*

Pennsylvania to South Carolina.

Pimelodus insigne Richardson, Fauna Bor.-Amer., III, 132, 1836; based on *Pimelode livree* LeSueur.

238. **Schilbeodes gilberti** (Jordan & Evermann).

Roanoke River in southwestern Virginia.

Noturus gilberti Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 352, Roanoke River, Roanoke, Virginia.

239. **Schilbeodes eleutherus** (Jordan).

Mississippi Valley.

Noturus eleutherus Jordan, Ann. Lyc. Nat. Hist. N. Y., XI, 1876 (1877), 371, Big Pigeon River, Newport, Tennessee.

240. **Schilbeodes miurus** (Jordan).

Mississippi Valley and tributaries of Lake Michigan, south to Louisiana.

Noturus miurus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1877, 371, White River, Indiana.

241. **Schilbeodes furiosus** (Jordan & Meek).

Eastern and central North Carolina.

Noturus furiosus Jordan & Meek, Proc. U. S. Nat. Mus. 1888, 351, Neuse River, Milburnie, North Carolina.

Genus 81. **RHAMDIA** Bleeker. *Bagres de Rio.*

Rhamdia Bleeker, Ichth. Arch. Ind. Siluri., 197, 1858 (*quelen*).

Subgenus **RHAMDIA** Bleeker.

242. **Rhamdia wagneri** (Günther). *Barbudo.*

Rivers of Central America.

Pimelodus wagneri Günther, Fishes Cent. Am., 474, 1869, Atlantic and Pacific rivers of Panama.

Subgenus RHAMDELLA Eigenmann & Eigenmann.

Rhamdella Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, 1, 1888, 129 (*eriarcha*).

243. *Rhamdia baronis-mulleri* (Troschel).
 "Pacific Ocean" in Mexico.
Pimelodus baronis-mülleri Troschel, in Müller's Beiträge zur Geschichte, Statistik und Zoologie von Mexico, III, 636, 1865, no definite locality.
244. *Rhamdia motaguensis* (Günther).
 Rio Motagua, Guatemala.
Pimelodus motaguensis Günther, Cat., v, 127, 1864, Rio Motagua, Guatemala.
245. *Rhamdia brachyptera* (Cope).
 Orizaba, Mexico.
Pimelodus brachypterus Cope, Trans. Am. Phil. Soc. 1866, 404, Orizaba, Mexico.
246. *Rhamdia salvini* (Günther).
 Rio San Geronimo, Guatemala.
Pimelodus salvini Günther, Cat., v, 130, 1864, Rio San Geronimo, Guatemala.
247. *Rhamdia hypselura* (Günther).
 Mexico.
Pimelodus hypselurus Günther, Cat., v, 126, 1864, Mexico.
248. *Rhamdia laticauda* (Heckel).
 Mexico.
Pimelodus laticaudus Heckel, in Kner, Sitz. Wien. Ac., XXVI, 420, 1757, Mexico.
249. *Rhamdia godmani* (Günther).
 Valley of Rio Usumacinta, Guatemala.
Pimelodus godmani Günther, Cat., v, 124, 1864, Rio Usumacinta, Guatemala.
250. *Rhamdia guatemalensis* (Günther).
 Rio Huamuchal, Guatemala.
Pimelodus guatemalensis Günther, Cat., v, 122, 1864, Rio Huamuchal, Guatemala.
251. *Rhamdia nicaraguensis* (Günther).
 Lake Nicaragua, Nicaragua.
Pimelodus nicaraguensis Günther, Cat., v, 125, 1864, Lake Nicaragua, Nicaragua.
252. *Rhamdia microptera* (Günther).
 Rio San Geronimo, Guatemala.
Pimelodus micropterus Günther, Cat., v, 124, 1864, Rio San Geronimo, Guatemala.
253. *Rhamdia managuensis* (Günther).
 Lake Managua, Nicaragua.
Pimelodus managuensis Günther, Fishes Cent. Am., 474, 1869, Lake Managua, Nicaragua.
254. *Rhamdia polycaula* (Günther).
 Rio San Geronimo, Guatemala.
Pimelodus polycaulus Günther, Cat., v, 131, 1864, Rio San Geronimo, Guatemala.
255. *Rhamdia petenensis* (Günther).
 Lake Peten, Yucatan.
Pimelodus petenensis Günther, Cat., v, 126, 1864, Lake Peten, Yucatan.
256. *Rhamdia parryi* (Eigenmann).
 Rio Zanalenco, Chiapas.
Rhamdella parryi Eigenmann, Proc. Cal. Ac. Sci. 1888, 130, Rio Zanalenco, Chiapas.

Genus 82. **PIMELODELLA** Eigenmann & Eigenmann.*Pimelodella* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 131 (*cristatus*).257. *Pimelodella chagresi* (Steindachner).

Rio Chagres, Panama.

Pimelodus chagresi Steindachner, Ichth. Beitr., iv, 34, 1876, Rio Chagres, at Obispo.258. *Pimelodella modesta* (Günther).

Esmeraldas, Ecuador; also recorded, perhaps doubtfully, from Rio Chagres.

Pimelodus modestus Günther, Proc. Zool. Soc. Lond. 1860, 239, Esmeraldas, Ecuador.Genus 83. **PIMELODUS** Lacépède. *Congros Barbosus*.*Pimelodus* Lacépède, Hist. Nat. Poiss., v, 94, 1803 (*quadrimaculatus*, etc.; includes various genera).259. *Pimelodus maculatus* Lacépède. *Congro Barboso*.

Rio Mamoni (Panama) and southeastward to Rio de la Plata.

Pimelodus maculatus Lacépède, Hist. Nat. Poiss., v, 94, 107, 1803, Rio de la Plata.Family XXXV. **LORICARIIDÆ.**Genus 84. **LORICARIA** Linnæus.*Loricaria* Linnæus, Syst. Nat., ed. x, 307, 1758 (*cataphracta*).Subgenus **HEMIODON** Kner.*Hemiodon* Kner, Panzerwelse, 89, 1853 (*depressus*).260. *Loricaria panamensis* Eigenmann & Eigenmann.

Panama.

Loricaria panamensis Eigenmann & Eigenmann, S. A. Nematognathi, 365, 1890, Panama.Subgenus **STURISOMA** Swainson.*Sturisoma* Swainson, Nat. Hist. Fishes, II, 304, 1839 (*rostrata*).261. *Loricaria rostrata* Spix.

Rivers of eastern South America from Panama to Paraguay River.

Loricaria rostrata Spix, Pisc. Brasil., 5, 1829, Rio Blanco.Subgenus **BINELORICARIA** Bleeker.*Rineloricaria* Bleeker, Nederl. Tijdschr. Dierk., 80, 1863 (*lima*).262. *Loricaria lima* Kner.

Brazil, from Parahyba River northward to Panama.

Loricaria lima Kner, Panzerwelse, 89, 1853, Brazil.263. *Loricaria bransfordi* Gill.

Isthmus of Panama.

Loricaria bransfordi Gill, Proc. Ac. Nat. Sci. Phila. 1876, 338, Empire Station, Isthmus Railway, Panama.Subgenus **PARAHEMIODON** Bleeker.*Parahemiodon* Bleeker, Nederl. Tijdschr. Dierk., 80, 1863 (*typus*).264. *Loricaria uracantha* Kner & Steindachner.

Rio Chagres, Panama.

Loricaria uracantha Kner & Steindachner, Abh. Bayer. Ac. Wiss., 56, 1865, Rio Chagres, Panama.

Subgenus *LOBICARIA* Linnaeus.

265. *Loricaria variegata* Steindachner.
Rio Mamoni, Panama.
Loricaria variegata Steindachner, Flussfische Südamer., 1, 15, 1879, Rio Mamoni, Panama.

Genus 85. *HEMIANCISTRUS* Bleeker.

Hemiancistrus Bleeker, Tijdschr. Dierk., 1, 78, 1863 (*mediana*).

266. *Hemiancistrus guacharote* (Cuvier & Valenciennes).
Porto Rico.
Hypostomus guacharote Cuvier & Valenciennes, Hist. Nat. Poiss., xv, 508, 1840, Porto Rico.

267. *Hemiancistrus aspidolepis* (Günther).

Veragua.

Chatostomus aspidolepis Günther, Fishes Central Amer., 478, 1869, Veragua.

Genus 86. *CHETOSTOMUS* Kner.

Chatostomus Kner, Hypostomiden, 272, 1853 (*loborhynchus*).

268. *Chaetostomus fischeri* Steindachner. *Cochu*.
Rio Mamoni, near Panama.
Chaetostomus fischeri Steindachner, Flussfische Südamer., 1, 14, 1879, Rio Mamoni, Panama.

Genus 87. *ANCISTRUS* Kner.

Ancistrus Kner, Hypostomiden, 272, 1853 (*cirrhosus*).

269. *Ancistrus chagresi* Eigenmann & Eigenmann.
Rio Chagres, Panama.
Ancistrus chagresi Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1889, 47, Rio Chagres, Panama.

Order N. *PLECTOSPONDYLI*. The Carp-like Fishes.Suborder *EVENTOGNATHI*. The Carps.Family XXXVI. *CATOSTOMIDÆ*. The Suckers.

- Genus 88. *ICTIOBUS* Rafinesque. *Buffalo-fishes*.
Ictiobus Rafinesque, Ichth. Ohiensis, 55, 1820 (*bubalus*).

Subgenus *SCLEROGNATHUS* Cuvier & Valenciennes.

Sclerognathus Cuvier & Valenciennes, Hist. Nat. Poiss., xvii, 477, 1844 (*cyprinella*).

270. *Ictiobus cyprinella* (Cuvier & Valenciennes). *Red-mouth Buffalo-fish*; *Common Buffalo-fish*.
Mississippi Valley.
Sclerognathus cyprinella Cuvier & Valenciennes, Hist. Nat. Poiss., xvii, 477, 1844, Lake Pontchartrain, Louisiana.

Subgenus *ICTIOBUS* Rafinesque.

271. *Ictiobus urus* (Agassiz). *Mongrel Buffalo*.
Mississippi Valley.
Carpoides urus Agassiz, Amer. Jour. Sci. Arts 1854, 355, Tennessee River, Huntsville, Alabama.
272. *Ictiobus meridionalis* (Günther).
Rio Usumacinta, Guatemala.
Sclerognathus meridionalis Günther, Cat., vii, 23, 1868, Rio Usumacinta, Guatemala.

273. *Ictiobus bubalus* (Rafinesque). *Small-mouthed Buffalo; Razor-backed Buffalo; Sucker-mouthed Buffalo.*
Mississippi Valley and southward.
Amblodon bubalus Rafinesque, Jour. Phys. 1818, 421, Ohio River.
- Genus 89. *CARPIODES* Rafinesque.
Carpiodes Rafinesque, Ichth. Ohiensis, 56, 1820 (*cyprinus*).
274. *Carpiodes carpio* (Rafinesque). *Carp Sucker.*
Ohio Valley, southwest to central Texas.
Catostomus carpio Rafinesque, Ichth. Ohiensis, 56, 1820, Falls of Ohio River.
275. *Carpiodes difformis* Cope.
Ohio Valley and westward.
Carpiodes difformis Cope, Proc. Am. Phil. Soc. Phila. 1870, 480, Wabash River.
276. *Carpiodes thompsoni* Agassiz. *Lake Carp; "Drum."*
Lake Champlain and Great Lakes region.
Carpiodes thompsoni Agassiz, Am. Jour. Sci. Arts 1855, 191, Lake Champlain.
277. *Carpiodes velifer* (Rafinesque). *Quillback; Spearfish; Sailfish; Skimback.*
Mississippi Valley and southwestward to Rio Grande and upper Missouri.
Catostomus velifer Rafinesque, Ichth. Ohiensis, 56, 1820, Ohio River.
278. *Carpiodes cyprinus* (LeSueur). *Eastern Carp Sucker.*
Streams about Chesapeake Bay.
Catostomus cyprinus LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 91, Elk River and other tributaries of Chesapeake Bay.
- Genus 90. *CYCLEPTUS* Rafinesque. *Blackhorse.*
Cycleptus Rafinesque, Jour. Phys. 1819, 421 (*nigrescens*).
279. *Cycleptus elongatus* (LeSueur). *Blackhorse; Gourd-seed Sucker; Missouri Sucker; Suckerel.*
Upper Mississippi Valley.
Catostomus elongatus LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 103, Ohio River.
- Genus 91. *PANTOSTEUS* Cope. *Mountain Suckers.*
Pantosteus Cope, Lieut. Wheeler's Expl. W. 100th Mer., v, 673, 1876 (*platyrhynchus* = *generosus*).
280. *Pantosteus arizonæ* Gilbert.
Gila Basin, Arizona.
Pantosteus arizonæ Gilbert, in Jordan & Evermann, Fish. N. and M. Amer., 170, 1896, Salt River, Tempe, Arizona.
281. *Pantosteus generosus* (Girard). *Mountain Sucker.*
Great Basin of Utah.
Catostomus generosus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 174, Cottonwood Creek, Utah.
282. *Pantosteus plebeius* (Baird & Girard).
Basin of the Rio Grande.
Catostomus plebeius Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 28, Rio Mimbres, a tributary of Lake Guzman, Chihuahua.
283. *Pantosteus delphinus* (Cope). *Blue-headed Sucker.*
Mountain streams tributary to the Colorado River in western Colorado and Wyoming.
Minomus delphinus Cope, Hayden's Geol. Surv. Wyoming for 1870 (1872), 435, probably Henry Fork of Green River, Wyoming.
284. *Pantosteus guzmaniensis* (Girard).
Streams of Coahuila and Chihuahua tributary to the Rio Grande.
Catostomus guzmaniensis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 173, Rio Janos, a tributary of Lake Guzman, Chihuahua.

285. *Pantosteus jordani* Evermann.
Upper Missouri and Columbia River basins.
Pantosteus jordani Evermann, Bull. U. S. Fish Com. 1892 (January 27, 1893), 51,
Whitewood Creek and other streams of the Black Hills, South Dakota.
286. *Pantosteus aræopus* (Jordan).
Kern River, California; Carson River and Reese River, Nevada.
Catostomus aræopus Jordan, Bull. U. S. Nat. Mus., XII, 173, 1878, Kern River,
California.
287. *Pantosteus clarki* (Baird & Girard).
Rio Gila and tributaries in Arizona.
Catostomus clarki Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 27, Rio Santa
Cruz, Gila Basin, Arizona.
- Genus 92. **CATOSTOMUS** LeSueur. *Fine-scaled Suckers.*
Catostomus LeSueur, Jour. Ac. Nat. Sci. Phila., I, 1817, 89 (*catostomus*).
- Subgenus **CATOSTOMUS** LeSueur.
288. *Catostomus latipinnis* Baird & Girard. *Flannel-mouthed Sucker.*
Rio Colorado and Rio Gila and their tributaries.
Catostomus latipinnis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 388, Rio
San Pedro, Gila Basin.
289. *Catostomus discobolus* Cope.
Upper Colorado Basin.
Catostomus discobolus Cope, Hayden's Geol. Surv. Wyo., 435, 1870 (1872), Green
River, Wyoming.
290. *Catostomus griseus* (Girard).
Platte River and upper Missouri region.
Acomus griseus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 174, Sweetwater Fork
of Platte River, Wyoming.
291. *Catostomus retropinnis* Jordan.
Northern Montana.
Catostomus retropinnis Jordan, Bull. U. S. Nat. Mus., XII, 178, 1878, Milk River,
Montana.
292. *Catostomus pocatello* Gilbert & Evermann. *Moogadec.*
Upper Snake River basin; the type from near Pocatello, Idaho.
Catostomus pocatello Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 189,
pl. 21, fig. 1, Ross Fork of Snake River, near Pocatello, Idaho.
293. *Catostomus catostomus* (Forster). *Long-nosed Sucker; Northern Sucker; Red
Sucker.*
Great Lakes, upper Missouri River, upper Columbia, and northwestward to
Alaska; very abundant northward, but not coming south of latitude 40°.
Cyprinus catostomus Forster, Phil. Trans. 1773, 155, streams about Hudson
Bay.
294. *Catostomus tahoensis* Gill & Jordan. *Tahoe Sucker.*
Lake Tahoe and Humboldt River at Winnemucca, Nevada.
Catostomus tahoensis Gill & Jordan, in Jordan, Bull. U. S. Nat. Mus., XII, 173,
1878, Lake Tahoe, California.
295. *Catostomus rex* R. S. Eigenmann.
Lost River, Tule Lake, Oregon.
Catostomus rex Rosa Smith Eigenmann, Am. Nat., July, 1891, 667, Lost River,
Oregon.
- Subgenus **DECACTYLUS** Rafinesque.
Decactylus Rafinesque, Ichth. Ohiensis, 60, 1820 (*bostoniensis* = *commersonii*)
296. *Catostomus labiatus* Ayres.
Klamath Lake, Oregon.
Catostomus labiatus Ayres, Proc. Cal. Ac. Sci. 1855, 32, Klamath Lake, Oregon,

297. *Catostomus occidentalis* Ayres. *Sacramento Sucker*.
Streams of California; Sacramento and San Joaquin rivers.
Catostomus occidentalis Ayres, Proc. Cal. Ac. Sci. 1854, 18, San Francisco.
298. *Catostomus bernardini* Girard.
San Bernardino Creek, a tributary of Rio Yaqui, on the boundary of Arizona and Sonora.
Catostomus bernardini Girard, Proc. Ac. Nat. Sci. Phila. 1856, 175, San Bernardino Creek, Arizona.
299. *Catostomus macrocheilus* Girard. *Columbia River Sucker*.
Columbia River basin as far up as Flathead Lake, Montana, Upper Salmon Falls, and the headwaters of Salmon River.
Catostomus macrocheilus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 175, Astoria, Oregon.
300. *Catostomus commersonii* (Lacépède). *Common Sucker; White Sucker; Brook Sucker; Fine-scaled Sucker*.
Quebec and the Great Lakes to Montana, Colorado, and southward to Missouri and Georgia.
Cyprinus commersonii Lacépède, Hist. Nat. Poiss., v, 502, 1803, locality unknown.
301. *Catostomus ardens* Jordan & Gilbert. *Mullet of Utah Lake*.
Great Basin of Utah and upper Snake River, Idaho.
Catostomus ardens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 464, Utah Lake, Provo, Utah.
302. *Catostomus gila* Kirsch.
Rio Gila, Arizona.
Catostomus gila Kirsch, Proc. U. S. Nat. Mus. 1888, 555, Rio Gila, Fort Thomas, Arizona.
303. *Catostomus insignis* Baird & Girard.
Gila Basin, Arizona.
Catostomus insignis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 28, Rio San Pedro, Arizona.
- Subgenus *HYPENTELIUM* Rafinesque.
Hypentelium Rafinesque, Jour. Ac. Nat. Sci. Phila. 1818, 421 (*macropteron* = *nigricans*).
304. *Catostomus nigricans* LeSueur. *Hog Sucker; Stone-roller; Toter; Crawl-a-bottom; Hammer Head; Stone-lugger; Hog Molly*.
New York to Minnesota, Kansas, Arkansas, and the Carolinas.
Catostomus nigricans LeSueur, Jour. Ac. Nat. Sci. Phila. 1817, 102, Lake Erie.
305. *Catostomus rhotæcus* Thoburn.
Eastern Tennessee or southwestern Virginia.
Catostomus rhotæcus Thoburn, in Jordan & Evermann, Fishes North and Middle America, 181, 1896, supposed to be from French Broad River, Tennessee.
- Genus 93. *CHASMISTES* Jordan.
Chasmistes Jordan, Bull. Hayden's Geol. Surv. Terr., iv, No. 2, 417, 1878 (*liorus*).
306. *Chasmistes fecundus* Cope & Yarrow. *Webg Sucker*.
Utah Lake.
Catostomus fecundus Cope & Yarrow, Zool. Wheeler Surv., v, 678, 1876, Utah Lake.
307. *Chasmistes brevirostris* Cope.
Klamath Lake, Oregon.
Chasmistes brevirostris Cope, Am. Nat. 1879, 785, Klamath Lake, Oregon.
308. *Chasmistes liorus* (Jordan). *June Sucker of Utah Lake*.
Utah Lake.
Chasmistes liorus Jordan, Bull. U. S. Nat. Mus., xii, 2:9, 1878, Utah Lake at Provo, Utah.

309. *Chasmistes cujus* Cope. *Couia*.
Pyramid Lake, Nevada.
Chasmistes cujus Cope, Proc. Ac. Nat. Sci. Phila. 1883, 149, Pyramid Lake.
- Genus 94. **DELTISTES** Seale.
Deltistes Seale, Proc. Cal. Ac. Sci. 1896 (*luxatus*).
310. *Deltistes luxatus* (Cope).
Klamath Lake and Klamath River, Oregon.
Chasmistes luxatus Cope, Am. Nat. 1879, 784, Klamath Lake.
- Genus 95. **XYRAUCHEN** Eigenmann & Kirsch. *Razor-back Suckers*.
Xyrauchen Eigenmann & Kirsch, Proc. U. S. Nat. Mus. 1888, 556 (*cypho*).
311. *Xyrauchen cypho* (Lockington). *Razor-back Sucker; Hump-backed Sucker*.
Basin of the Colorado and Gila rivers.
Catostomus cypho Lockington, Proc. Ac. Nat. Sci. Phila. 1880, 237, Colorado River at mouth of the Gila, Arizona.
312. *Xyrauchen uncomphagre* Jordan & Evermann.
Uncomphagre River in the Colorado basin.
Xyrauchen uncomphagre Jordan & Evermann, Bull. U. S. Fish Com. 1889 (1891), 26, Uncomphagre River, Delta, Colorado.
- Genus 96. **ERIMYZON** Jordan. *Chub Suckers*.
Erimyzon Jordan, Bull. Buffalo Soc. Nat. Hist., 95, 1876 (*oblongus*).
313. *Erimyzon sucetta* (Lacépède). *Creek-fish; Chub Sucker*.
Great Lakes, Mississippi Valley, and eastward in lakes and lowland streams.
Cyprinus sucetta Lacépède, Hist. Nat. Poiss., v, 606, 1803, South Carolina.
- 313a. *Erimyzon sucetta oblongus* (Mitchill).
Great Lakes region to Maine and Dakota, south to Virginia and Indian Territory.
Cyprinus oblongus Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 459, New York.
- Genus 97. **MINYTREMA** Jordan. *Spotted Suckers*.
Minytrema Jordan, Man. Vert. E. U. S., ed. 2, 318, 1878 (*melanops*).
314. *Minytrema melanops* (Rafinesque). *Winter Sucker; Spotted Sucker*.
Great Lakes region to North Carolina, west to Texas.
Catostomus melanops Rafinesque, Ichth. Ohiensis, 57, 1820, Ohio River.
- Genus 98. **MOXOSTOMA** Rafinesque. *Redhorse*.
Moxostoma Rafinesque, Ichth. Ohiensis, 54, 1820 (*anisurum*).
315. *Moxostoma papillosum* (Cope). *White Mullet*.
Dismal Swamp in Virginia to the Ocmulgee River, Georgia.
Ptychostomus papillosum Cope, Proc. Am. Phil. Soc. Phila. 1870, 470, Catawba and Yadkin rivers, North Carolina.
316. *Moxostoma anisurum* (Rafinesque). *White-nosed Sucker*.
Ohio River and Great Lakes region.
Catostomus anisurus Rafinesque, Ichth. Ohiensis, 54, 1820, Ohio River.
317. *Moxostoma collapsum* (Cope).
Lowland streams of North Carolina.
Ptychostomus collapsus Cope, Proc. Am. Phil. Soc. 1870, 471, Neuse, Yadkin, and Catawba rivers, North Carolina.
318. *Moxostoma bucco* (Cope).
Missouri River at St. Joseph.
Ptychostomus bucco Cope, Hayden's Geol. Surv. Wyo., 437, 1872, St. Joseph, Mo.

319. *Moxostoma pidiense* (Cope).
Great Pedee Basin.
Ptychostomus pidiensis Cope, Proc. Am. Phil. Soc. Phila. 1870, 471, Yadkin River, North Carolina.
320. *Moxostoma coregonus* (Cope). *Blue Mullet*.
Catawba and Yadkin rivers, North Carolina.
Ptychostomus coregonus Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Catawba and Yadkin rivers.
321. *Moxostoma album* (Cope).
Rivers of North Carolina.
Ptychostomus albus Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Catawba River.
322. *Moxostoma thalassinum* (Cope).
Yadkin River, North Carolina.
Ptychostomus thalassinus Cope, Proc. Am. Phil. Soc. Phila. 1870, 472, Yadkin River, North Carolina.
323. *Moxostoma congestum* (Baird & Girard). *Texas Redhorse*.
Streams of Texas.
Catostomus congestus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 27, Rio Salado, Texas.
324. *Moxostoma austrinum* Bean.
Rio de Santiago, Mexico, known from Michoacan, Mexico (west of Sierra Madre); Rio Lerma, at Salamanca.
Myxostoma austrinum Bean, Proc. U. S. Nat. Mus. 1879, 302, Piedad in Morelia, Michoacan, Mexico.
325. *Moxostoma aureolum* (LeSueur). *Common Redhorse; Mullet; White Sucker; Large-scaled Sucker*.
Great Lakes, Mississippi Valley, and other streams west of the Allegheny Mountains, and west to the Dakotas and Manitoba.
Catostomus aureolus LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 95, Lake Erie, near Buffalo, New York.
326. *Moxostoma robustum* (Cope).
Yadkin River, North Carolina.
Ptychostomus robustus Cope, Proc. Am. Phil. Soc. Phila. 1870, 473, Yadkin River.
327. *Moxostoma macrolepidotum* (LeSueur).
Streams about Chesapeake and Delaware bays, and southward to North Carolina, east of the Alleghenies.
Catostomus macrolepidotus LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 94, Delaware River.
328. *Moxostoma crassilabre* (Cope).
Streams of eastern North Carolina.
Ptychostomus crassilabris Cope, Proc. Am. Phil. Soc. Phila. 1879, 477, Neuse River, Raleigh, North Carolina.
329. *Moxostoma lesueurii* (Richardson). *Picconou*.
Pine Island Lake and Albany River, British America.
Catostomus lesueurii Richardson, Franklin's Journal, 1823, 772, Pine Island Lake, British America.
330. *Moxostoma breviceps* (Cope).
Ohio Valley and Great Lakes region.
Ptychostomus breviceps Cope, Proc. Am. Phil. Soc. Phila. 1870, 478, Youghiogheny River, Pennsylvania.
331. *Moxostoma conus* (Cope).
Neuse and Yadkin rivers, North Carolina.
Ptychostomus conus Cope, Proc. Am. Phil. Soc. Phila. 1870, 478, Yadkin River.

332. *Moxostoma pæcilurum* Jordan.
Southern Mississippi to eastern Texas; Pearl, Tangipahoa, and Sabine rivers.
Myxostoma pacilura Jordan, Bull. U. S. Nat. Mus., x, 66, 1877, Tangipahoa River, Louisiana.
333. *Moxostoma rupiscartes* Jordan & Jenkins. *Jump-rocks*.
Rivers of the Carolinas and Georgia from the Catawba to the Chattahoochee River.
Moxostoma rupiscartes Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 353, Catawba River, at Marion, N. C., and other streams in North and South Carolina.
334. *Moxostoma cervinum* (Cope). *Jumping Mullet*.
Rivers of the South Atlantic States from the James to the Neuse.
Teretulus cervinus Cope, Jour. Ac. Nat. Sci. Phila. 1868, 236, headwaters of Roanoke and James rivers, Virginia.
- Genus 99. **PLACOPHARYNX** Cope.
Placopharynx Cope, Proc. Am. Phil. Soc. Phila. 1870, 467 (*carinatus* = *duquesnii*).
335. *Placopharynx duquesnii* (LeSueur).
Michigan (Detroit) to Tennessee, Georgia, and Arkansas.
Catostomus duquesnii LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 105, Ohio River at Pittsburg.
- Genus 100. **LAGOCHILA** Jordan & Brayton. *Rabbit-mouth Suckers*.
Lagochila Jordan & Brayton, Proc. Ac. Nat. Sci. Phila. 1877, 280 (*lacera*);
336. *Lagochila lacera* Jordan & Brayton. *Hare-lip Sucker*; *Cut-lips*; *Split-mouth Sucker*; *May Sucker*; *Rabbit-mouth Sucker*; *Pea-lip Sucker*.
Mississippi Valley, Ozark Mountains, Scioto, Tippecanoe, Clinch, Cumberland and Chickamauga rivers, and the White River of Arkansas.
Lagochila lacera Jordan & Brayton, Proc. Ac. Nat. Sci. Phila. 1877, 280, Chickamauga River, Ringgold, Georgia.

Family XXXVII. **CYPRINIDÆ**. The Carps.

- Genus 101. **CAMPOSTOMA** Agassiz. *Stone-rollers*.
Campostoma Agassiz, Am. Jour. Sci. Arts 1855, 218 (*anomalum*).
337. *Campostoma ornatum* Girard.
Chihuahua River, Mexico.
Campostoma ornatum Girard, Proc. Ac. Nat. Sci. Phila. 1856, 176, Chihuahua River, Mexico.
338. *Campostoma pricei* Jordan & Thoburn.
Springs in the Chiricahua Mountains in southern Arizona, tributary to the Rio Yaqui.
Campostoma pricei Jordan & Thoburn, in Jordan & Evermann, Fishes North and Middle America, 205, 1896, Rucker Canyon, Chiricahua Mountains, Arizona.
339. *Campostoma anomalum* (Rafinesque). *Stone-roller*; *Stone-lugger*; *Steel-backed Chub*; *Mammy*; *Dough-belly*.
Central New York to Tennessee, Wyoming, and Texas.
Rutilus anomalus Rafinesque, Ichth. Ohieusis, 52, 1820, Licking River, Kentucky.
340. *Campostoma formosulum* Girard.
San Antonio River to the Rio Grande.
Campostoma formosulum Girard, Proc. Ac. Nat. Sci. Phila. 1856, 176, Rio Sabinal, near San Antonio, Texas.

Genus 102. **ORTHODON** Girard.

Orthodon Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182 (*microlepidota*).

341. **Orthodon microlepidotus** (Ayres). *Blackfish*.

Lower Sacramento and San Joaquin rivers.

Gila microlepidota Ayres, Proc. Cal. Ac. Sci., I, 1855, 21, Sacramento and San Joaquin rivers, California.

Genus 103. **OXYGENEUM** Forbes.

Oxygeneum Forbes, Bull. Ill. Lab. Nat. Hist., II, 136, 1885 (*pulverulentum*).

342. **Oxygeneum pulverulentum** Forbes.

Illinois River.

Oxygeneum pulverulentum Forbes, Bull. Ill. Lab., II, 136, 1885, Illinois River.

Genus 104. **ACROCHEILUS** Agassiz. *Chisel-mouths*.

Acrocheilus Agassiz, Am. Jour. Sci. Arts 1855, 211 (*alutaceus*).

343. **Acrocheilus alutaceus** Agassiz & Pickering. *Chisel-mouth; Square-mouth; Hard-mouth*.

Lower Columbia River, as far up as Spokane and Shoshone Falls.

Acrocheilus alutaceus Agassiz & Pickering, Am. Jour. Sci. Arts, XIX, 1855, 214, Willamette Falls and Walla Walla River, Oregon.

Genus 105. **LAVINIA** Girard.

Lavinia Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137 (*exilicauda*).

344. **Lavinia exilicauda** Baird & Girard. *Hitch; Chi*.

Streams of the Coast Range about San Francisco and Monterey; locally common as far north as Clear Lake, California.

Lavinia exilicauda Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Sacramento River, California.

Genus 106. **CHROSOMUS** Rafinesque.

Chrosomus Rafinesque, Ichth. Ohiensis, 47, 1820 (*erythrogaster*).

345. **Chrosomus erythrogaster** Rafinesque. *Red-bellied Dace*.

New Brunswick to Ohio, Michigan, Iowa, and northern Alabama.

Chrosomus erythrogaster Rafinesque, Ichth. Ohiensis, 47, 1820, Ohio River.

345a. **Chrosomus erythrogaster eos** Cope.

Susquehanna River.

Chrosomus eos Cope, Proc. Ac. Nat. Sci. Phila. 1861, 523, Meshoppen Creek, Susquehanna County, Pennsylvania.

346. **Chrosomus dakotensis** Evermann & Cox.

Missouri River basin in Nebraska and South Dakota.

Chrosomus dakotensis Evermann & Cox, Report U. S. Fish Com. 1894 (1896), 395, Crow Creek, Chamberlain, South Dakota.

347. **Chrosomus oreas** Cope.

Headwaters of Roanoke River, and clear tributaries of the Tennessee River.

Chrosomus oreas Cope, Jour. Ac. Nat. Sci. Phila. 1868, 233, head of Roanoke River, Montgomery County, Virginia.

Genus 107. **ALGANSEA** Girard.

Algansea Girard, Proc. Ac. Nat. Sci. Phila. 1856, 184 (*tincella*).

348. **Algansea tincella** (Cuvier & Valenciennes).

Lakes about the City of Mexico.

Leuciscus tincella Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 323, 1844, City of Mexico.

349. **Algansea lacustris** Steindachner.

Lake Patzcuaro, Mexico.

Algansea lacustris Steindachner, Einige Fischarten Mexico's, 10, pl. 3, figs. 1-1b, 1895, Lake Patzcuaro, near City of Mexico.

350. *Algansea tarascorum* Steindachner.
Lake Pátzenaro, Mexico.
Algansea tarascorum Steindachner, Einige Fischarten Mexico's, 11, pl. 3, figs. 2-2c, Lake Pátzcuaro, near City of Mexico.
351. *Algansea dugesi* Bean.
Central Mexico, in streams tributary to Rio de Lerma.
Algansea dugesi Bean, Proc. U. S. Nat. Mus. 1892, 283, Lake Yuriria, Guanajuato, Mexico.
352. *Algansea sallæi* (Günther).
Streams of central Mexico.
Ceraticthys sallæi Günther, Cat., VII, 484, 1868, Cuernavaca, Mexico.
- Genus 108. **HYBOGNATHUS** Agassiz.
Hybognathus Agassiz, Am. Jour. Sci. Arts 1855, 223 (*nuchalis*).
- Subgenus **HYBOGNATHIUS** Agassiz.
353. *Hybognathus nuchale* Agassiz. - *Silvery Minnow; Gudgeon*.
Clear streams from Delaware and Neuse rivers to Nebraska and southward to Georgia and Texas.
Hybognathus nuchalis Agassiz, Am. Jour. Sci. Arts 1855, 224, Quincy, Illinois.
- 353a. *Hybognathus nuchale evansi* (Girard).
Upper Missouri Basin
Hybognathus evansi Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182, Fort Pierre, Nebraska.
354. *Hybognathus argyrite* Girard.
Upper Missouri region and Red River of the North.
Hybognathus argyritis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 182, Milk River.
355. *Hybognathus hayi* Jordan.
Lower Mississippi Valley and neighboring rivers in Mississippi.
Hybognathus hayi Jordan, Proc. U. S. Nat. Mus. 1884, 548, Pearl River, Miss.
- Subgenus **DIONDA** Girard.
Dionda Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177 (*episcopa*).
356. *Hybognathus serenum* (Girard).
Rivers of western Texas.
Dionda serena Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177, Sabinal River, Texas.
357. *Hybognathus episcopum* (Girard).
Rivers of western Texas and northeastern Mexico from Rio Comal to Rio Grande.
Dionda episcopa Girard, Proc. Ac. Nat. Sci. Phila. 1856, 177, headwaters of Pecos River, and Comanche Spring, tributary to Rio Grande, Texas.
358. *Hybognathus nubilum* (Forbes).
Western Illinois, west to Wyoming and southwest to the Ozark region.
Alburnops nubilus Forbes, Bull. Ill. Lab. Nat. Hist., II, 56, 1878, Rock River, Ogle County, Illinois.
359. *Hybognathus amarum* (Girard).
Rio Grande Basin.
Algoma amara Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, lagoon near Fort Brown, Texas.
360. *Hybognathus melanops* (Girard).
Streams of Coahuila, Chihuahua, and Nuevo Leon, Mexico.
Dionda melanops Girard, Proc. Ac. Nat. Sci. Phila. 1856, 178, Buena Vista, Coahuila, Mexico.
361. *Hybognathus plumbeum* (Girard).
Tributaries of Arkansas River in Indian Territory.
Dionda plumbea Girard, Proc. Ac. Nat. Sci. Phila. 1856, 178, Canadian River.

Genus 109. **PIMEPHALES** Rafinesque. *Fat-heads*.*Pimephales* Rafinesque, Ichth. Ohiensis, 52, 1820 (*promelas*).362. **Pimephales promelas** Rafinesque. *Fat-head*; *Black-head Minnow*.

Lake Champlain to Kentucky, the Dakotas, and Rio Grande.

Pimephales promelas Rafinesque, Ichth. Ohiensis, 53, 1820, pond near Lexington, Kentucky.362a. **Pimephales promelas maculosus** (Girard).

Arkansas River; locally abundant.

Pimephales maculosus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, sluices of Arkansas River, Fort Makee, Arkansas.362b. **Pimephales promelas confertus** (Girard).

Upper Rio Grande Basin; Chihuahuana River, Mexico.

Hyborhynchus confertus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 179, Hurrah Creek, a tributary of Pecos River, Texas.363. **Pimephales notatus** (Rafinesque). *Blunt-nosed Minnow*.

Generally very abundant in small streams west of the Alleghanies and in the St. Lawrence River basin.

Minnilus notatus Rafinesque, Ichth. Ohiensis, 47, 1820, Ohio River.Genus 110. **MYLOPHARODON** Ayres.*Mylopharodon* Ayres, Proc. Cal. Ac. Sci. 1855, 33 (*robustus* = *conocephalus*).364. **Mylopharodon conocephalus** (Baird & Girard).

Sacramento and San Joaquin rivers, California.

Gila conocephala Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134, San Joaquin River, California.Genus 111. **MYLOCHEILUS** Agassiz.*Mylocheilus* Agassiz, Am. Jour. Sci. Arts 1855, 229 (*lateralis* = *caurinus*).365. **Mylocheilus caurinus** (Richardson). *Columbia Chub*.

Streams of Oregon and Washington from Frazer River to the Columbia.

Cyprinus (Leuciscus) caurinus Richardson, Fauna Boreali-Amer., III, 304, 1836, Columbia River at Fort Vancouver.Genus 112. **STYPODON** Garman.*Stypodon* Garman, Bull. Mus. Comp. Zool., VIII, 90, 1881 (*signifer*).366. **Stypodon signifer** Garman.

Lago de Parras, an isolated lagoon in Coahuila, Mexico.

Stypodon signifer Garman, Bull. Mus. Comp. Zool., VIII, 90, 1881, Lago de Parras, Coahuila, Mexico.Genus 113. **SEMOTILUS** Rafinesque. *Fall-fishes*.*Semotilus* Rafinesque, Ichth. Ohiensis, 49, 1820 (*dorsalis* = *atromaculatus*).Subgenus **LEUCOSOMUS** Heckel.*Leucosomus* Heckel, Russegger's Reisen, I, 1042, 1843 ("*chrysolencus*" = *corporalis*).367. **Semotilus corporalis** (Mitchill). *Fall-fish*; *Silver Chub*; *Wind-fish*; *Corporal*.

Abundant from St. Lawrence River to the James, east of the Alleghanies.

Cyprinus corporalis Mitchill, Amer. Month. Mag., I, July, 1817, 289, Wallkill River, New York.Subgenus **SEMOTILUS** Rafinesque.368. **Semotilus atromaculatus** (Mitchill). *Horned Dace*; *Creek Chub*.

Maine and western Massachusetts, westward to Kansas and Wyoming.

Cyprinus atromaculatus Mitchill, Amer. Month. Mag., II, 1818, 324, Wallkill River, New York.

- 368a. *Semotilus atromaculatus thoreauianus* (Jordan).
Streams of Georgia and Alabama.
Semotilus thoreauianus Jordan, Bull. U. S. Nat. Mus., x, 63, 1877, Flint River, Georgia.
- Genus 114. **POGONICHTHYS** Girard.
Pogonichthys Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136 (*inæquilobus* = *macrolepidotus*).
369. *Pogonichthys macrolepidotus* (Ayres). *Split-tail*.
Lowland streams of California.
Leuciscus macrolepidotus Ayres, Placer Times and Transcript, May 30, 1854, San Francisco.
- Genus 115. **PTYCHOCHEILUS** Agassiz.
Ptychocheilus Agassiz, Am. Jour. Sci. Arts 1855, 229 (*gracilis* = *oregonensis*).
370. *Ptychocheilus oregonensis* (Richardson). *Squawfish; Chappaul; Yellowbelly; Sacramento Pike*.
Rivers of Oregon and Washington, in the Columbia basin to Montana and Idaho, and northward to British Columbia; also in the Sacramento, San Joaquin, Salinas, and Pajaro rivers of California.
Cyprinus (Leuciscus) oregonensis Richardson, Fauna Bor.-Amer., III, 305, 1836, Columbia River.
371. *Ptychocheilus harfordi* Jordan & Gilbert.
Lower Sacramento River, California.
Ptychochilus harfordi Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 72, Sacramento River, California.
372. *Ptychocheilus lucius* Girard. "*White Salmon*" of the Colorado.
Colorado Basin; abundant.
Ptychocheilus lucius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 209, Rio Colorado.
- Genus 116. **GILA** Baird & Girard.
Gila Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 368 (*robusta*).
373. *Gila elegans* Baird & Girard. *Bony-tail; "Gila Trout"*.
Colorado and Gila rivers.
Gila elegans Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 369, Zuni, Colorado, and Gila rivers.
374. *Gila robusta* Baird & Girard. *Round-tail*.
Tributaries of the Rio Colorado and Rio Gila.
Gila robusta Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 368, Zuni River, New Mexico.
375. *Gila seminuda* Cope & Yarrow.
Rio Virgen, in Utah and Nevada.
Gila seminuda Cope & Yarrow, Zool. Wheeler's Expl. W. 100th Mer., v, 666, 1875 (1876), Rio Virgen, Nevada.
- Genus 117. **LEUCISCUS** Cuvier.
Leuciscus (Klein) Cuvier, Règne Animal, ed. 1, 194, 1817 (*dobula, rutilus, leuciscus, alburnus, and phoxinus*).
- Subgenus **SIBOMA** Girard.
Siboma Girard, Proc. Ac. Nat. Sci. Phila. 1856, 208 (*crassicauda*).
376. *Leuciscus crassicauda* (Baird & Girard). *Sacramento Chub*.
Rivers of California; generally abundant in the Sacramento and San Joaquin.
Lavinia crassicauda Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, San Joaquin River, California.

Subgenus **TIGOMA** Girard.

Tigoma Girard, Proc. Ac. Nat. Sci. Phila. 1856, 205 (*pulohella* = *nigrascens*).

- 377. *Leuciscus conformis*** (Baird & Girard).
Tulare Valley, California.
Lavinia conformis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Poso Creek, Tulare County, California.
- 378. *Leuciscus bicolor*** (Girard).
Klamath Lake, Oregon.
Tigoma bicolor Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Klamath Lake, Oregon.
- 379. *Leuciscus lineatus*** (Girard). *Great Chub; Chub of Utah Lake.*
Great Basin of Utah, and Snake River basin above Shoshone Falls.
Tigoma lineata Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, locality unknown.
- 380. *Leuciscus nigrescens*** (Girard). *Pescadito; Chub of the Rio Grande.*
Rio Grande Basin.
Tigoma nigrescens Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207, Boca Grande and Rio Janos, Chihuahua.
- 381. *Leuciscus purpureus*** (Girard).
San Bernardino Creek in southern Arizona, a tributary of Rio Yaqui.
Tigoma purpurea Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, San Bernardino Creek, Arizona.
- 382. *Leuciscus intermedius*** (Girard).
Basin of the Gila River, Arizona.
Tigoma intermedia Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Rio San Pedro of the Gila, Arizona.
- 383. *Leuciscus niger*** (Cope).
Rio Gila, Arizona.
Gila nigra Cope, Zool. Wheeler's Expl. W. 100th Mer., v, 663, 1875 (1876), Ash Creek and San Carlos, Arizona.
- 384. *Leuciscus aliciae*** (Jouy). *Leather-sided Minnow.*
Great Basin of Utah and Wood River, Idaho.
Squalius aliciae Jouy, Proc. U. S. Nat. Mus. 1881, 19, Provo River near Utah Lake, Utah.
- Subgenus **CHEONDA** Girard.
Cheonda Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207 (*cooperi*).
- 385. *Leuciscus cooperi*** (Girard).
Lower Columbia River basin.
Cheonda cooperi Girard, Proc. Ac. Nat. Sci. Phila. 1856, 207, Fort Vancouver, Washington.
- 386. *Leuciscus humboldti*** (Girard).
Humboldt River, Nevada.
Tigoma humboldti Girard, Proc. Ac. Nat. Sci. Phila. 1856, 206, Humboldt River, Nevada.
- 387. *Leuciscus egregius*** (Girard).
Nevada to northern California; known from the Humboldt and Truckee basins and from Napa Valley, California.
Tigoma egregia Girard, Pac. R. R. Surv., x, 291, 1858, locality unknown.
- 388. *Leuciscus hydrophlox*** (Cope). *Silver-sided Minnow; "Po-he-wa."*
Salt Lake Basin and upper Snake River.
Clinostomus hydrophlox Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 475, Blackfoot Creek, Idaho.

Subgenus RICHARDSONIUS Girard.

Richardsonius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 201 (*balteatus*).

389. *Leuciscus balteatus* (Richardson).

Columbia and Frazer rivers, and streams about Puget Sound.

Cyprinus (Abramis) balteatus Richardson, Fauna Bor.-Amer., III, 301, 1836, Columbia River.

Subgenus CLINOSTOMUS Girard.

Clinostomus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 211 (*elongatus*).

390. *Leuciscus vandoisulus* Cuvier & Valenciennes.

Streams east of the Alleghenies from Virginia to Georgia and in the Tennessee and Cumberland rivers.

Leuciscus vandoisulus Cuvier & Valenciennes, Hist. Nat. Poiss., xvii, 317, 1844, South Carolina.

391. *Leuciscus elongatus* (Kirtland). *Red-sided Shiner*.

Great Lakes and Upper Mississippi Valley.

Luzilus elongatus Kirtland, Rept. Zool. Ohio, 169, 1836, Mahoning River, Trumbull County, Ohio, and Lake Erie near Cleveland.

Subgenus PHOXINUS Rafinesque.

Phoxinus Rafinesque, Ichth. Ohiensis, 45, 1820 (no type stated, *phoxinus* understood).

392. *Leuciscus nachtriebi* Cox.

Lakes in Mississippi Valley in Minnesota.

Leuciscus nachtriebi Cox, Rept. U. S. Fish Com. 1894 (1896), Mille Lacs, Aitkin County, Minnesota.

393. *Leuciscus neogæus* (Cope).

Upper Mississippi Valley and neighboring waters.

Phoxinus neogæus Cope, Cypr. Penn., 375, 1866, New Hudson, Michigan.

394. *Leuciscus margarita* (Cope).

Susquehanna River to James River and headwaters of the Kanawha.

Clinostomus margarita Cope, Cypr. Penn., 377, 1866, Conestoga River, Lancaster, Pennsylvania.

395. *Leuciscus oreutti* (Eigenmann & Eigenmann).

Temecula, San Luis Rey, San Jacinto, and Santa Ana rivers, California.

Phoxinus oreutti Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, III, 1890, 2, Temecula River, Riverside County, California.

Subgenus HEMITREMIA Cope.

Hemitremia Cope, Proc. Amer. Philos. Soc. 1870, 462 (*vittata* = *flammeus*).

396. *Leuciscus milnerianus* (Cope).

Upper Missouri River basin.

Phoxinus milnerianus Cope, Am. Nat., July, 1879, 440, upper Missouri River basin, probably Battle Creek, Montana.

397. *Leuciscus flammeus* (Jordan & Gilbert).

Tributaries of Tennessee River; common in clear streams in northern Alabama.

Phoxinus flammeus Jordan & Gilbert, in Jordan, Man. Vert. E. U. S., ed. 2, 303, 1878, Elk River, Estill Springs, Tennessee.

Subgenus IOTICHTHYS Jordan & Evermann.

Iotichthys Jordan & Evermann, Fishes North and Middle America, 228, 1896 (*phlegethontis*).

398. *Leuciscus phlegethontis* (Cope).

Tributaries of Great Salt Lake and Sevier Lake, Utah.

Clinostomus phlegethontis Cope, Proc. Amer. Philos. Soc. Phila. 1874, 137, Beaver River, Utah.

Genus 118. RUTILUS Rafinesque. The Roaches.*Rutilus* Rafinesque, Ichth. Ohiensis, 48, 50, 1820 (*rutilus*).**Subgenus LEUCOS Heckel.***Leucos* Heckel, Russegger's Reisen, 1, 1038, 1843 (*cisalpinus*).**399. *Rutilus olivaceus* (Cope).**

Lake Tahoe; Pyramid Lake.

Leucos olivaceus Cope, Proc. Ac. Nat. Sci. Phila. 1883, 145, Pyramid Lake, Nevada.**Subgenus MYLOLEUCUS Cope.***Myloleucus* Cope, Bull. Hayden's Geol. Surv. Mont. for 1871 (1872), 475 (*pulverulentus* = *symmetricus*).**400. *Rutilus bicolor* (Girard).**

Lakes of southeastern Oregon (Klamath, Warner, Goose, etc.).

Algansea bicolor Girard, Proc. Ac. Nat. Sci. Phila. 1856, 183, Klamath Lake, Oregon.**401. *Rutilus symmetricus* (Baird & Girard).**

Rivers of California and Nevada.

Pogonichthys symmetricus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136, Fort Miller, San Joaquin Valley, California.**402. *Rutilus boucardi* (Günther).**

Cuernavaca, Mexico.

Leuciscus boucardi Günther, Cat., vii, 485, 1868, Cuernavaca, Mexico.**403. *Rutilus thoburni* Scofield.**

Rio San Lorenzo, Santa Cruz, California.

Rutilus thoburni Scofield, Proc. Cal. Ac. Sci. 1896, Santa Cruz, California.**404. *Rutilus columbianus* Scofield.**

Lower Columbia Basin.

Rutilus columbianus Scofield, Proc. Cal. Ac. Sci. 1896, Lower Columbia Basin.**Genus 119. LUXILINUS Jordan.***Luxilinus* Jordan, Catalogue Fishes N. A., 33, 1885 (*occidentalis*).**405. *Luxilinus occidentalis* (Baird & Girard).**

San Joaquin Valley, California.

Leucosomus occidentalis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 137, Poso Creek and Four Creeks, tributaries of Tulare Lake, California.**Genus 120. OPSOPEODUS Hay.***Opsopæodus* Hay, Proc. U. S. Nat. Mus. 1880, 507 (*emilia*).**Subgenus OPSOPEODUS Hay.****406. *Opsopæodus osculus* Evermann.**

Rio Neches and other streams about Palestine and Houston, Texas.

Opsopæodus osculus Evermann, Bull. U. S. Fish Com. 1891 (1892), 82, Neches River, near Palestine, Texas.**407. *Opsopæodus emiliæ* Hay.**

Lake Erie and southern Indiana to Georgia and Mississippi.

Opsopæodus emilia Hay, Proc. U. S. Nat. Mus. 1880, 507, Artesia, Macon, and Enterprise, Mississippi.**408. *Opsopæodus megalops* (Forbes).**

Western Ohio to Illinois.

Trycherodon megalops Forbes, in Jordan & Gilbert, Synopsis, 247, 1883, Illinois River at Pekin and Peoria, Illinois.

Subgenus OPSOPODÆA Jordan & Evermann.

Opsopæa Jordan & Evermann, Fishes North and Middle America, 247, 1896 (*bollmani*).

409. *Opsopæodus bollmani* Gilbert.

Swamp streams of Georgia, and Obion River, Cypress, Tennessee.
Opsopæodus bollmani Gilbert, Bull. U. S. Fish Com., VIII, 1888 (1890), 226, Buckland Creek, Millen, Georgia.

Genus 121. **ABRAMIS** Cuvier.

Abramis Cuvier, Règne Animal, ed. I, 111, 1817 (*brama*).

Subgenus NOTEMIGONUS Rafinesque.

Notemigonus Rafinesque, Jour. Phys. 1819, 421 (*auratus*).

410. *Abramis crysoleucas* (Mitchill). *Golden Shiner; Roach; Bream.*

Nova Scotia and Maryland to Dakota and Texas.
Cyprinus crysoleucas Mitchill, Rept. Fish. N. Y., 23, 1814, New York.

410a. *Abramis crysoleucas bosci* (Cuvier & Valenciennes).

Rivers of the South Atlantic States.
Leuciscus bosci Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 313, 1844, Carolina, Pennsylvania, and New York.

411. *Abramis gardoneus* (Cuvier & Valenciennes).

South Carolina.
Leuciscus gardoneus Cuvier & Valenciennes, Hist. Nat. Poiss., XVII, 316, 1844, Charleston, South Carolina.

Genus 122. **COCHLOGNATHUS** Baird & Girard.

Cochlognathus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 158 (*ornatum*).

412. *Cochlognathus ornatum* Baird & Girard.

Rio Grande basin.
Cochlognathus ornatus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 158, Brownsville, Texas.

413. *Cochlognathus biguttatum* Cope.

Trinity River, Texas.
Cochlognathus biguttata Cope, Bull. U. S. Nat. Mus., XVII, 37, 1880, Trinity River, Fort Worth, Texas.

Genus 123. **CLIOLA** Girard.

Cliola Girard, Proc. Ac. Nat. Sci. Phila. 1856, 192 (*vigilax*).

414. *Cliola vigilax* (Baird & Girard).

Ohio to Georgia, Iowa, and Texas.
Ceratichthys vigilax Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Otter Creek, North Fork of Red River, Arkansas.

415. *Cliola smithii* Evermann & Cox.

Prairie Creek near Scotland, South Dakota.
Cliola smithii Evermann & Cox, Rept. U. S. Fish Com. 1894 (1896), 400, Prairie Creek, Scotland, South Dakota.

Genus 124. **NOTROPIS** Rafinesque.

Notropis Rafinesque, Amer. Month. Mag., II, 1818, 204 (*atherinoides*).

Subgenus AZTECA Jordan & Evermann.

Azteca Jordan & Evermann, Fishes North and Middle America, 254, 1896 (*vitata* = *aztecus*).

416. *Notropis aztecus* Woolman.

Valley of Mexico.
Notropis aztecus Woolman, Bull. U. S. Fish Com., XIV, 1894, 63, City of Mexico.

Subgenus *CHRIOPE* Jordan.*Chriope* Jordan, Bull. Hayden's Surv. Terr., iv, 787, 1878 (*bifrenatus*).417. *Notropis bifrenatus* (Cope).

Massachusetts to Maryland.

Hybopsis bifrenatus Cope, Cypr. Penn., 384, 1866, Schuylkill River, Conshohocken, Pennsylvania.418. *Notropis maculatus* (Hay).

Chickasawha River, Mississippi.

Hemitrenia maculata Hay, Proc. U. S. Nat. Mus. 1880, 505, Chickasawha River, Enterprise, Mississippi.419. *Notropis anogenus* Forbes.

Western New York (Cayuga Lake) to northern Illinois.

Notropis anogenus Forbes, Bull. Ill. Lab. Nat. Hist., vol. II, art. 2, 138, 1885, Fox River, McHenry, Illinois.420. *Notropis cayuga* Meek.

Connecticut River, Northern New York, and Upper Mississippi Valley.

Notropis cayuga Meek, Ann. Lyc. Nat. Hist. N. Y. 1888, 305, Cayuga Lake, New York.420a. *Notropis cayuga atrocaudalis* Evermann.

Rio Neches, Palestine, Texas; also in Rio Comal at New Braunfels, Texas.

Notropis cayuga atrocaudalis Evermann, Bull. U. S. Fish. Com., xi, 1891 (1892), 76, Neches River, Palestine, Texas.421. *Notropis heterodon* (Cope).

New York to Michigan and Kansas.

Alburnops heterodon Cope, Proc. Ac. Nat. Sci. Phila. 1864, 281, Lansing and Grosse Isle, Michigan.Subgenus *ALBURNOPS* Girard.*Alburnops* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194 (*blennius*).422. *Notropis fretensis* (Cope).

Detroit River, Michigan.

Hybopsis fretensis Cope, Cypr. Penn., 382, 1866, Detroit, Michigan.423. *Notropis blennius* (Girard). *Straw-colored Minnow.*

Ohio and Michigan to Tennessee, Dakota, and Kansas, thence southwestward to Texas.

Alburnops blennius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River near Fort Smith, Arkansas.424. *Notropis sabinæ* Jordan & Gilbert.

Sabino River, Texas.

Notropis sabinæ Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 15, Sabine River at Longview, Texas.425. *Notropis volucellus* (Cope).

Michigan, Wisconsin, and northern Indiana.

Hybognathus volucellus Cope, Proc. Ac. Nat. Sci. Phila. 1864, 283, Grosse Isle, Detroit River, Michigan.426. *Notropis scylla* (Cope).

Illinois River to western Kansas and Montana.

Hybopsis scylla Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 438, Red Cloud Creek, tributary of Platte River, Nebraska.427. *Notropis procnæ* (Cope).

Delaware River and southward, in coastwise streams, as far as the Nense.

Hybognathus procnæ Cope, Proc. Ac. Nat. Sci. Phila. 1864, 279, Delaware, Schuylkill, and Conestoga rivers, and White Clay Creek, Pennsylvania.

428. *Notropis nigrotæniatus* (Günther).
Atlisco, Mexico.
Graodius nigrotæniatus Günther, Cat., VII, 485, 1868, Atlisco, Mexico.
429. *Notropis kanawha* Jordan & Jenkins.
Tributaries of Kanawha River, southwestern Virginia.
Notropis kanawha Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 354, pl. 44, fig. 5, Reed Creek, Wytheville, Virginia.
430. *Notropis braytoni* Jordan & Evermann.
Tributaries of Rio San Juan at Cadereita in Nuevo Leon, Mexico.
Notropis braytoni Jordan & Evermann, Fishes North and Middle America, 264, 1896, Cadereita, Mexico; substitute for *Moniana nitida* Girard, pro-occupied.
431. *Notropis spectrunculus* (Cope).
Headwaters of Tennessee River in Tennessee, Virginia, and North Carolina.
Hybopsis spectrunculus Cope, Jour. Ac. Nat. Sci. Phila. 1868, 231, Bear Creek, tributary of Middle Fork of Holston River, Virginia.
432. *Notropis ozarcanus* Meek.
White River, Arkansas, in the Ozark Mountains.
Notropis ozarcanus Meek, Bull. U. S. Fish. Com., IX, 1889 (1891), 129, North Fork of White River, Arkansas.
433. *Notropis chihuahua* Woolman.
Rio de los Conchos, Chihuahua, Mexico.
Notropis chihuahua Woolman, Am. Nat., March, 1892, 260, Rio de los Conchos, Chihuahua, Mexico.
434. *Notropis topeka* Gilbert.
Western Iowa and eastern South Dakota to Kansas.
Notropis topeka Gilbert, Bull. Washburn Lab. Nat. Hist., I, 13, 1884, Shungununga Creek, Topeka, Kansas.
- Subgenus HUDSONIUS Girard.
Hudsonius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 210 (*hudsonius*).
435. *Notropis gilberti* Jordan & Meek.
Eastern Iowa to eastern Colorado.
Notropis gilberti Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 4, Des Moines River and Village Creek, Ottumwa, Iowa.
436. *Notropis piptolepis* (Cope).
North Platte River.
Photogenis piptolepis Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 438, Red Cloud Creek, a tributary of North Platte River, Nebraska.
437. *Notropis simus* (Cope).
Rio Grande at San Ildefonso, New Mexico.
Alburnellus simus Cope, Zool. Wheeler Surv., V, 649, 1875 (1876), San Ildefonso, New Mexico.
438. *Notropis longirostris* (Hay).
Chickasawha River, Mississippi, to Escambia River, Florida.
Alburnops longirostris Hay, Proc. U. S. Nat. Mus. 1880, 504, Chickasawha River at Enterprise, Mississippi.
439. *Notropis nux* Evermann.
Neches and Trinity rivers near Palestine, Texas.
Notropis nux Evermann, Bull. U. S. Fish Com., XI, 1891 (1892), 77, Nechos River, Palestine, Texas.
440. *Notropis nocomis* Evermann.
Trinity, San Marcos, and Comal rivers, Texas.
Notropis nocomis Evermann, Bull. U. S. Fish Com., XI, 1891 (1892), 78, Trinity River, Palestine, Texas, and San Marcos River, San Marcos, Texas.

441. *Notropis shumardi* (Girard).

Ohio and Tennessee basins to Iowa and the Ozark region.

Alburnops shumardi Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River, Fort Smith, Arkansas.442. *Notropis illecebrosus* (Girard).

Lower Arkansas River basin.

Alburnops illecebrosus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194, Arkansas River, Fort Smith, Arkansas.443. *Notropis hudsonius* (DeWitt Clinton). *Spawn-eater; Spot-tailed Minnow; Shiner.*

The Dakotas and Lake Superior to New York, and southward to South Carolina.

Clupea hudsonia DeWitt Clinton, Ann. Lyc. Nat. Hist. N. Y., 1, 1824, 49, Hudson River, New York.443a. *Notropis hudsonius selene* (Jordan).

Lake Superior and neighboring waters.

Luxilus selene Jordan, Bull. U. S. Nat. Mus., x, 60, 1877, Lake Superior, Bayfield, Wisconsin.443b. *Notropis hudsonius amarus* (Girard).

Delaware, Susquehanna, and Potomac rivers.

Hudsonius amarus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 210, Chesapeake Bay and Potomac River at Washington.443c. *Notropis hudsonius saludanus* (Jordan & Brayton).

Coastwise streams of Atlantic slope from James River to the Ocmulgee.

Alburnops saludanus Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 16, 1878, tributary of Saluda River, Greenville, South Carolina.Subgenus *CODOMA* Girard.*Codoma* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 194 (*ornata*).444. *Notropis ornatus* (Girard).

Chihuahua River, Mexico.

Codoma ornata Girard, Proc. Ac. Nat. Sci. Phila. 1856, 195, Chihuahua River, Mexico.Subgenus *MONIANA* Girard.*Moniana* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 199 (*lutrensis*).445. *Notropis formosus* (Girard).

Rio Mimbres, Chihuahua, Mexico.

Moniana formosa Girard & Girard, Proc. Ac. Nat. Sci. Phila. 1856, 201, Rio Mimbres, Chihuahua, Mexico.446. *Notropis frigidus* (Girard).

Rio Frio, Texas.

Moniana frigida Girard, Proc. Ac. Nat. Sci. Phila. 1856, 200, Rio Frio, Texas.447. *Notropis lutrensis* (Baird & Girard).

Southern Illinois to South Dakota, Kansas, and the Rio Grande.

Leuciscus lutrensis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 391, Otter Creek, tributary of the North Fork of Red River, Arkansas.448. *Notropis proserpina* (Girard).

Rio Grande region.

Moniana proserpina Girard, Proc. Ac. Nat. Sci. Phila. 1856, 200, Devil River, Texas.449. *Notropis callisema* (Jordan).

Ocmulgee River, Georgia.

Episema callisema Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 363, South Fork of Ocmulgee River, Flat Shoals, Georgia.

Subgenus *CYPRINELLA* Girard.

Cyprinella Girard, Proc. Ac. Nat. Sci. Phila. 1856, 196 (*bubalinus*).

450. *Notropis bubalinus* (Baird & Girard).
Streams of Arkansas and southwestward.
Leuciscus bubalinus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 391, Otter Creek, Arkansas.
451. *Notropis ludibundus* (Girard).
Locality unknown, probably Indian Territory.
Cyprinella ludibunda Girard, Proc. Ac. Nat. Sci. Phila. 1856, 199, locality unknown.
452. *Notropis macrostomus* (Girard).
Rio Grande region, northward to Kansas.
Cyprinella macrostoma Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Devil River, Texas.
453. *Notropis texanus* (Girard).
Rivers of Texas from Trinity River to the Salado.
Cyprinella texana Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Salado and Turkey Creek, Texas.
454. *Notropis notatus* (Girard).
Streams of Texas from Austin westward.
Cyprinella notata Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Seco, Texas.
455. *Notropis venustus* (Girard).
Streams of Texas.
Cyprinella venusta Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Rio Sabinal, Texas.
456. *Notropis cercostigma* (Cope).
Streams tributary to the Gulf of Mexico, from Pearl River and Red River to Rio Nueces.
Cyprinella cercostigma Cope, Proc. Ac. Nat. Sci. Phila. 1867, 157, Pearl River, Monticello, Mississippi.
457. *Notropis stigmatulus* (Jordan). *Spotted-tail Minnow*.
Alabama River basin.
Photogenis stigmatulus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 337, Etowah River, etc., Rome, Georgia.
458. *Notropis trichroistius* (Jordan & Gilbert).
Alabama River basin.
Codoma trichroistia Jordan & Gilbert, Bull. U. S. Nat. Mus., xii, 50, 1878, Etowah River, etc., Rome, Georgia.
459. *Notropis callistius* (Jordan).
Alabama River basin.
Photogenis callistius Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 337, Etowah River, etc., Rome, Georgia.
460. *Notropis eurystomus* (Jordan).
Chattahoochee River.
Photogenis eurystomus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 356, Nancy Creek, tributary of Chattahoochee River, near Atlanta, Georgia.
461. *Notropis cæruleus* (Jordan).
Alabama River basin.
Photogenis cæruleus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 338, Etowah River, Rome, Georgia.
462. *Notropis niveus* (Cope).
Southern Virginia to South Carolina.
Hybopsis niveus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 460, Catawba River, North Carolina.
- 462a. *Notropis niveus chloristius* (Jordan & Brayton).
Santee River and tributaries.
Codoma chloristia Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 21, 1878, tributary of Saluda River, Greenville, South Carolina.

463. *Notropis whipplii* (Girard). *Silver-fin; Satin-fin*.
Central and northern New York to Minnesota, northern Alabama, and Arkansas.
Cyprinella whipplii Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Sugar Loaf Creek, a tributary of Poteau River, Arkansas.
464. *Notropis analostanus* (Girard).
Streams about Delaware and Chesapeake bays.
Cyprinella analostana Girard, Proc. Ac. Nat. Sci. Phila. 1856, 198, Potomac River at Analostan Island, Washington, D. C.
465. *Notropis galacturus* (Cope).
Ozark region to Cumberland, Tennessee, and Savannah rivers.
Hypsilepis galacturus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Holston River, Virginia.
466. *Notropis camurus* (Jordan & Meek).
Arkansas River and tributaries.
Cliola camura Jordan & Meek, Proc. U. S. Nat. Mus. 1884, 474, Arkansas River, Fort Lyon, Colorado.
467. *Notropis xænurus* (Jordan).
Altamaha River basin, Georgia.
Minnilus xænurus Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 79, Ocmulgee River, Flat Shoals, Georgia.
468. *Notropis hypselopterus* (Günther).
Southern Georgia and Alabama.
Leuciscus hypselopterus Günther, Cat., VII, 255, 1868, Mobile, Alabama.
469. *Notropis pyrrhomelas* (Cope).
North and South Carolina in the Santee Basin.
Photogenis pyrrhomelas Cope, Proc. Amer. Phil. Soc. Phila. 1870, 463, Catawba River, North Carolina.
470. *Notropis garmani* Jordan.
Tributaries of Lago del Muerte, Coahuila, Mexico.
Notropis garmani Jordan, Cat. Fish. N. Am., 25, 1885, Lago del Muerte, Coahuila, Mexico.

Subgenus LUXILUS Rafinesque.
Luzilus Rafinesque, Ichth. Ohiensis, 47, 1820 (*chrysocephalus*).
471. *Notropis cornutus* (Mitchill). *Shiner; Red-fin; Dace*.
Entire region east of the Rocky Mountains except the South Atlantic States and Texas.
Cyprinus cornutus Mitchill, Amer. Month. Mag. Crit. Review, I, 1817, 289, Wallkill River, New York.
- 471a. *Notropis cornutus frontalis* (Agassiz).
Great Lakes; everywhere common in mouths of brooks.
Leuciscus frontalis Agassiz, Lake Superior, 368, 1850, Lake Superior.
- 471b. *Notropis cornutus cyaneus* (Cope).
Northern peninsula of Michigan.
Hypsilepis cornutus cyaneus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Montreal River, Keweenaw, Michigan.
472. *Notropis cerasinus* (Cope).
Roanoke River basin, in mountain brooks.
Hypsilepis cornutus cerasinus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 159, headwaters of Roanoke River, Virginia.

473. *Notropis albeolus* (Jordan).
Roanoke, Tar, and Neuse rivers.
Notropis megalops albeolus Jordan, Bull. U. S. Fish Com. 1888 (1891), 123,
Roanoke River near Roanoke, Virginia.
474. *Notropis lacertosus* (Cope).
Headwaters of Tennessee River.
Hybopsis lacertosus Cope, Jour. Ac. Nat. Sci. Phila. 1868, 232, Bear Creek,
tributary of the Middle Fork of Holston River.
- Subgenus **HYDROPHLOX** Jordan.
Hydrophlox Jordan, Bull. U. S. Nat. Mus., xii, 18, 1878 (*rubricroceus*).
475. *Notropis macdonaldi* Jordan & Jenkins.
Mountain streams of Virginia tributary to James and Shenandoah rivers.
Notropis macdonaldi Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 354, Shenan-
doah River, Luray, Virginia.
476. *Notropis coccogenis* (Cope).
Cumberland, Tennessee, and Savannah rivers.
Hypsilepis coccogenis Cope, Proc. Ac. Nat. Sci. Phila. 1867, 160, Holston River,
Virginia.
477. *Notropis zonatus* (Agassiz).
Mountain streams in the Ozark region of Missouri and Arkansas.
Alburnus zonatus Agassiz, in Putnam, Bull. Mus. Comp. Zool., 1, 9, 1863,
Osage River, Missouri.
478. *Notropis zonistius* (Jordan).
Chattahoochee River.
Luzilus zonistius Jordan, Proc. U. S. Nat. Mus. 1879, 239, Suwanee Creek,
tributary of Chattahoochee River, in northern Georgia.
479. *Notropis rubricroceus* (Cope). *Red Fallfish*.
Headwaters of the Tennessee and Savannah rivers.
Hybopsis rubricroceus Cope, Jour. Ac. Nat. Sci. Phila. 1868, 231, Tumbling
Creek, tributary of the North Fork of Holston River, Virginia.
480. *Notropis chlorocephalus* (Cope).
Santee Basin, in North and South Carolina.
Hybopsis chlorocephalus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 461, Catawba
River, North Carolina.
481. *Notropis lutipinnis* (Jordan & Brayton).
Santee and Oconee rivers, Georgia.
Hydrophlox lutipinnis Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 36, 1878,
Oconee River, Halls Springs, Georgia.
482. *Notropis chiliticus* (Cope).
Basin of Great Pedee River, North Carolina; common in upland streams.
Hybopsis chiliticus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 462, Yadkin River,
Rowan County, North Carolina.
483. *Notropis altipinnis* (Cope).
Yadkin, Great Pedee, and Cape Fear rivers, North Carolina.
Alburnellus altipinnis Cope, Proc. Amer. Phil. Soc. Phila. 1870, 464, Yadkin
River, Rowan County, North Carolina.
484. *Notropis roseus* (Jordan).
Lowland streams of Gulf States from Ogeechee River to the Mississippi.
Luzilus roseus Jordan, Bull. U. S. Nat. Mus., x, 61, 1877, Notalbany River near
Tickfaw, Louisiana.
485. *Notropis chalybæus* (Cope).
Delaware River to Ogeechee River.
Hybopsis chalybæus Cope, Cypr. Penn., 383, 1866, Schuylkill River, Pennsyl-
vania.

486. *Notropis chrosomus* (Jordan).

Alabama Basin; very abundant in clear streams and outlets of springs.
Hybopsis chrosomus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 333, Etowah River,
 etc., Rome, Georgia.

487. *Notropis xænocephalus* (Jordan).

Georgia to Mississippi; common in streams of the pine woods, descending to
 brackish water; abundant in Perdido Bay.
Hybopsis xænocephalus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 334, Etowah
 River, etc., Rome, Georgia.

Subgenus ORCELLA Jordan & Evermann.

Orcella Jordan & Evermann, Fishes North and Middle America, 289, 1896
 (*orca*).

488. *Notropis orca* Woolman.

Rio Grande at El Paso, Texas.
Notropis orca Woolman, Bull. U. S. Fish. Com., xiv, 1894, 56, Rio Grande,
 El Paso, Texas.

Subgenus NOTROPIS Rafinesque.

489. *Notropis ariommus* (Cope).

Ohio and Tennessee valleys.
Photogenis ariommus Cope, Cypr. Penn., 378, 1866, White River near Indian-
 apolis.

490. *Notropis scabriceps* (Cope).

Kanawha River, West Virginia.
Photogenis scabriceps Cope, Proc. Ac. Nat. Sci. Phila. 1867, 166, Sinking and
 Walker creeks, tributaries of Kanawha River.

491. *Notropis jejunus* (Forbes).

Western Pennsylvania to Kansas, and north to Winnipeg.
Episema jejuna Forbes, Bull. Ill. Lab. Nat. Hist., i, 60, 1878, Illinois River.

492. *Notropis swaini* Jordan.

Rivers of Texas from the Colorado westward.
Notropis swaini Jordan, Proc. U. S. Nat. Mus. 1885, 123, Rio Comal, New Braun-
 fels, Texas.

493. *Notropis amabilis* (Girard).

Rio Leona, a tributary of Rio Nueces, Texas.
Alburnus amabilis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Rio Leona,
 Texas.

494. *Notropis leuciodus* (Cope).

Tennessee River basin, in mountain streams.
Photogenis leuciodus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 165, Holston River,
 Virginia.

495. *Notropis telescopus* (Cope).

Tennessee River basin; very abundant in cold mountain streams.
Photogenis telescopus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 165, Holston River,
 Virginia.

495a. *Notropis telescopus arcansanus* Meek.

White River and Little Red River, Arkansas.
Notropis telescopus arcansanus Meek, Bull. U. S. Fish Com., ix, 1889 (1891), 133,
 White River, Eureka Springs, Arkansas; Mammoth Spring, Arkansas.

496. *Notropis socius* (Girard).

Live Oak Creek, southwestern Texas.
Alburnus socius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Live Oak Creek,
 Texas.

497. *Notropis notemigonoides* Evermann.

Rio Neches near Palestine, Texas, and streams about Houston, Texas.
Notropis notemigonoides Evermann, Bull. U. S. Fish Com., xi, 1891 (1892), 84,
 Neches River, Palestine, Texas, and Sims Bayou, Houston, Texas.

498. *Notropis stilbius* Jordan.
Alabama River and tributaries.
Notropis stilbius Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 343, Etowah and Oostanaula rivers, Rome, Georgia.
499. *Notropis atherinoides* Rafinesque.
Great Lakes region, Ohio and Mississippi valleys, and north to Winnipeg.
Notropis atherinoides Rafinesque, Amer. Month. Mag. and Crit. Rev. 1818, 204, Lake Erie.
500. *Notropis arge* (Cope).
Upper Mississippi Valley.
Alburnellus arge Cope, Cypr. Penn., 388, 1866, Detroit River or St. Joseph River, Michigan.
501. *Notropis dilectus* (Girard).
Lower Ohio to the Rio Grande.
Alburnus dilectus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Arkansas River, Fort Smith, Arkansas.
502. *Notropis fumeus* Evermann.
Hunter Creek, Houston, Texas.
Notropis fumeus Evermann, Bull. U. S. Fish Com., xi, 1891 (1892), 81, Hunter Creek, Houston, Texas.
503. *Notropis rubrifrons* (Cope).
New York and western Pennsylvania to southern Michigan, Kansas, and Kentucky.
Alburnellus rubrifrons Cope, Proc. Ac. Nat. Sci. Phila. 1865, 85, Kiskiminitas River, a tributary of Alleghany River, Pennsylvania.
504. *Notropis photogenis* (Cope).
Alleghany region.
Squalius photogenis Cope, Proc. Ac. Nat. Sci. Phila. 1864, 280, Youghioghny River, Pennsylvania.
505. *Notropis amcenus* (Abbott).
Clear streams east of the Alleghanies from the Raritan to the Neuse.
Alburnellus amcenus Abbott, Am. Nat., viii, 1874, 334, Raritan River, New Jersey.
506. *Notropis scepticus* (Jordan & Gilbert).
Rivers of Carolina from the Cape Fear to the Santee.
Minnilus scepticus Jordan & Gilbert, Synopsis, 200, 1883, Saluda River, Greenville, South Carolina.
507. *Notropis micropteryx* (Cope).
Headwaters of Cumberland and Tennessee rivers; also in Ozark region.
Alburnellus micropteryx Cope, Jour. Ac. Nat. Sci. Phila. 1868, 233, Holston River, Virginia.
508. *Notropis metallicus* Jordan & Meek.
Swamp streams in Georgia and Florida, from the Suwanee Basin to the Escambia.
Notropis metallicus Jordan & Meek, Proc. U. S. Nat. Mus. 1884, 475, Allapaha River, Nashville, Georgia.
Subgenus LYTHRURUS Jordan.
Lythrurus Jordan, Man. Vert. E. U. S., ed. 1, 272, 1876 (*diplemius* = *lythrurus*).
509. *Notropis bellus* (Hay).
Tombigbee River, Mississippi.
Minnilus bellus Hay, Proc. U. S. Nat. Mus. 1880, 510, Tombigbee River, Artesia and Macou, Mississippi.
510. *Notropis lirus* (Jordan).
Alabama River basin.
Nototropis lirus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 342, Etowah River and other small streams about Rome, Georgia.

511. *Notropis roseipinnis* Hay.

Sandy streams of Gulf States, from Escambia River to the Chickasawha.
Notropis roseipinnis Hay, in Jordan, Cat. Fish. N. A., 27, 1885, Chickasawha River, Enterprise, Miss.; substitute for *rubripinnis*, preoccupied.

512. *Notropis umbratilis* (Girard).

Arkansas River and streams of Kansas and southwestern Iowa.
Alburnus umbratilis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 193, Sugar Loaf Creek, tributary of Poteau River, Arkansas.

512a. *Notropis umbratilis atripes* (Jordan).

Southern Illinois and Iowa.
Lythrurus atripes Jordan, Bull. Ill. Lab. Nat. Hist., vol. 1, 59, 1878, streams of Union and Johnson counties, Illinois.

512b. *Notropis umbratilis lythrurus* (Jordan).

Ohio Valley and rivers of neighboring States.
Notropis lythrurus Jordan, Proc. U. S. Nat. Mus. 1884, 476, White River, Indianapolis, Indiana.

512c. *Notropis umbratilis cyanocephalus* (Copeland).

Rivers of southern Wisconsin and northern Illinois and Indiana.
Lythrurus cyanocephalus Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 70, Racine River, Wisconsin.

512d. *Notropis umbratilis ardens* (Cope).

Roanoke River, Virginia.
Hypsilepis ardens Cope, Proc. Ac. Nat. Sci. Phila. 1867, 163, headwaters of Roanoke River, Montgomery County, Virginia.

512e. *Notropis umbratilis fasciolaris* Gilbert.

Southern bend of Tennessee River, in limestone streams.
Notropis umbratilis fasciolaris Gilbert, Bull. U. S. Fish Com., ix, 1889 (1891), 148, streams about Florence, Alabama.

512f. *Notropis umbratilis matutinus* (Cope).

Neuse and Pamlico rivers; common in sandy brooks.
Alburnellus matutinus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 465, Neuse River, Wake County, North Carolina.

512g. *Notropis umbratilis punctulatus* (Hay).

Tributaries of Big Hatchee River, northern Mississippi.
Minnilus punctulatus Hay, Proc. U. S. Nat. Mus. 1880, 508, Tuscomb River, a tributary of the Big Hatchee, near Corinth, Mississippi.

Genus 125. *ERICYMBA* Cope.

Ericymba Cope, Proc. Ac. Nat. Sci. Phila. 1865, 88 (*buccata*).

513. *Ericymba buccata* Cope.

Michigan and western Pennsylvania to Kansas, and southward to western Florida.
Ericymba buccata Cope, Proc. Ac. Nat. Sci. Phila. 1865, 88, Kiskiminitas River, a tributary of the Monongahela, western Pennsylvania.

Genus 126. *PHENACOBIVS* Cope.

Phenacobius Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96 (*teretulus*).

514. *Phenacobius teretulus* Cope.

Kanawha River, West Virginia.
Phenacobius teretulus Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96, Kanawha River, Eggleston Springs, West Virginia.

515. *Phenacobius mirabilis* (Girard).

Illinois River to Arkansas.
Exoglossum mirabile Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191, Arkansas River, Fort Smith, Arkansas.

516. *Phenacobius scopifer* (Cope).
Illinois and Nebraska to the Rio Grande.
Sarcidium scopiferum Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 440,
Missouri River near St. Joseph, Missouri.
517. *Phenacobius uranops* Cope.
Upper Tennessee Basin.
Phenacobius uranops Cope, Proc. Ac. Nat. Sci. Phila. 1867, 96, Holston River,
Saltville, Virginia.
518. *Phenacobius catostomus* Jordan.
Alabama River basin.
Phenacobius catostomus Jordan, Ann. Lyc. Nat. Hist. N. Y. 1870, 332, Etowah
and Oostanaula rivers, Rome, Georgia.
- Genus 127. **EVARRA** Woolman.
Evarra Woolman, Bull. U. S. Fish. Com., XIV, 1894, 64 (*eigenmanni*).
519. *Evarra eigenmanni* Woolman.
City of Mexico.
Evarra eigenmanni Woolman, Bull. U. S. Fish. Com., XIV, 1894, 64, City of
Mexico.
- Genus 128. **TIAROGA** Girard.
Tiaroga Girard, Proc. Ac. Nat. Sci. Phila. 1856, 204 (*cobitis*).
520. *Tiaroga cobitis* Girard.
Rio San Pedro, a tributary of Rio Gila.
Tiaroga cobitis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 204, Rio San Pedro,
Arizona.
- Genus 129. **RHINICHTHYS** Agassiz.
Rhinichthys Agassiz, Lake Superior, 353, 1850 (*atronasus*).
521. *Rhinichthys cataractæ* (Cuvier & Valenciennes). *Long-nosed Dace*.
New England to Virginia and Wisconsin, its varieties ranging to the Pacific
Coast.
Gobio cataractæ Cuvier & Valenciennes, Hist. Nat. Poiss., XVI, 315, 1842,
Niagara Falls.
- 521a. *Rhinichthys cataractæ dulcis* (Girard).
Upper Missouri, Platte, Arkansas, Rio Grande, and Colorado rivers; the
Columbia River; the Utah Basin, and coastwise streams of Washington
and Oregon.
Argyreus dulcis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 185, Sweetwater River,
Wyoming.
522. *Rhinichthys simus* Garman.
Coahuila, Mexico.
Rhinichthys simus Garman, Science Observer, 61, 1881, Coahuila, Mexico.
523. *Rhinichthys atronasmus* (Mitchill). *Black-nosed Dace*.
New England to Minnesota, northern Alabama, and Virginia.
Cyprinus atronasmus Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 460, 1815, Wallkill
River; brooks of New York.
- 523a. *Rhinichthys atronasmus croceus* (Storer).
Tennessee Basin; abundant in clear brooks.
Leuciscus croceus Storer, Proc. Bost. Soc. Nat. Hist., II, 1845, 48, Alabama, prob-
ably Florence.
- 523b. *Rhinichthys atronasmus lunatus* (Cope).
Lakes and brooks of Michigan, Indiana, Wisconsin, Minnesota, and in Rainy
River.
Rhinichthys lunatus Cope, Proc. Ac. Nat. Sci. Phila. 1864, 278, Grosse Isle,
Michigan.

523c. *Rhinichthys atronasmus meleagris* (Agassiz).

Illinois and Iowa.

Rhinichthys meleagris Agassiz, Am. Jour. Sci. Arts 1854, 357, Burlington, Iowa.**Genus 130. AGOSIA Girard.***Agosia* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 186 (*chrysogaster*).**Subgenus APOCOPE Cope.***Apocope* Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 472 (*carringtoni*).**524. *Agosia oscula* (Girard).**

Lower Colorado and Gila rivers.

Argyreus osculus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 186, Babocomori Creek, a tributary of the Rio San Pedro, Arizona.**525. *Agosia yarrowi* Jordan & Evermann.**

Streams of Colorado in the Colorado River basin.

Agosia yarrowi Jordan & Evermann, Bull. U. S. Fish Com., ix, 1889 (1891), 28, Tomichi Creek and Gunnison River, Gunnison, Colorado.**526. *Agosia couesii* (Yarrow).**

Colorado River basin.

Apocope couesii Yarrow, Field and Forest, 1876, and Zool. Wheeler Surv., 648, 1875 (1876), Camp Apache, Arizona.**527. *Agosia adobe* Jordan & Evermann.**

Sevier River, Utah.

Agosia adobe Jordan & Evermann, Bull. U. S. Fish. Com., ix, 1889 (1891) 36, Sevier River, Juab, Utah.**528. *Agosia nevadensis* (Gilbert).**

Warm Springs in the deserts of southwestern Nevada; Ash Meadows, Indian Creek, and Vegas Creek, Nevada.

Rhinichthys (Apocope) nevadensis Gilbert, Death Valley Expedition, 230, pl. 6, fig. 1, 1893, Ash Meadows, Amargosa Desert, Nevada.**529. *Agosia nubila* (Girard).**

Basin of the Columbia River from western Idaho, below Shoshone Falls of Snake River to the coast, and in coastwise streams from Washington southward into Oregon.

Argyreus nubilus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 180, Fort Steilacoom, Puget Sound.**529a. *Agosia nubila carringtonii* (Cope).**

Upper Snake River basin to Heart Lake in Yellowstone Park; thence extending southward in the Great Basin and the Coast Ranges.

Apocope carringtonii Cope, Hayden's Fifth Annual Report U. S. Geological Survey for 1871 (1872), 472, Warm Springs, Box Elder County, Utah.**530. *Agosia velifera* (Gilbert).**

Pahrnagat Valley, southwestern Nevada.

Rhinichthys (Apocope) velifer Gilbert, Death Valley Expedition, 229, pl. 6, fig. 2, 1893, Pahrnagat Valley, Nevada.**531. *Agosia umatilla* Gilbert & Evermann.**

Columbia River at Umatilla, Oregon, and the Payette and Salmon rivers, Idaho.

Agosia umatilla Gilbert & Evermann, Investigations in the Columbia River Basin, 42, pl. 9, fig. 2, 1894, Columbia River, Umatilla, Oregon.**532. *Agosia falcata* Eigenmann & Eigenmann.**

Columbia River basin; Boise River at Caldwell, Idaho; Payette River at Payette, Idaho; Columbia River at Pasco and Umatilla, and Mill Creek at Walla Walla.

Agosia falcata Eigenmann & Eigenmann, Am. Nat., xxvii, February 4, 1893, 153, Boise River at Caldwell, Idaho.

Subgenus AGOSIA Girard.

533. *Agosia chrysogaster* Girard.

Tributaries of the Gila River.

Agosia chrysogaster Girard, Proc. Ac. Nat. Sci. Phila. 1856, 187, Rio Santa Cruz, Sonora, Mexico.Genus 131. *HYBOPSIS* Agassiz.*Hybopsis* Agassiz, Am. Jour. Sci. Arts 1854, 358 (*gracilis* = *amblops*).

Subgenus ERIMYSTAX Jordan.

Erimystax Jordan, Geol. Surv. Ohio, iv, Zool., 858, 1882 (*dissimilis*).534. *Hybopsis tetranema* Gilbert.

Tributaries of Arkansas River in Kansas and Arkansas.

Hybopsis tetranemus Gilbert, Bull. Washburn College Lab., vol. 1, No. 7, 208, 1886, Elm and Spring creeks, Medicine Lodge, Kansas.535. *Hybopsis æstivalis* (Girard).

Arkansas River to the Rio Grande.

Gobio æstivalis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 189, Rio San Juan, Monterey, New Leon, Mexico.535a. *Hybopsis æstivalis marconis* Jordan & Gilbert.

Abundant in Rio San Marcos, San Marcos, Texas; also known from the Guadalupe River near San Marcos and the Rio Comal at New Braunfels, Texas.

Hybopsis æstivalis marconis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 22, Rio San Marcos, San Marcos, Texas.536. *Hybopsis hyostoma* (Gilbert).

Indiana to Iowa, and south to the Alabama River.

Nocomis hyostomus Gilbert, Proc. U. S. Nat. Mus. 1884, 203, White River, Bedford, Indiana.537. *Hybopsis gelida* (Girard).

Middle Missouri River basin from Wyoming to eastern Nebraska.

Gobio gelidus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 188, Milk River, Montana.538. *Hybopsis meeki* Jordan & Evermann.

Missouri River at St. Joseph and elsewhere, in the river channel.

Hybopsis meeki Jordan & Evermann, Fishes North and Middle America, 317, 1896, Missouri River at St. Joseph, Missouri.539. *Hybopsis montana* Meek.

Types supposed to be from the upper Missouri.

Hybopsis montanus Meek, Proc. U. S. Nat. Mus. 1884, 526, locality unknown, but collected by Dr. F. V. Hayden.540. *Hybopsis cumingii* (Günther).

California; only the type known.

Ceraticthys cumingii Günther, Cat., vii, 177, 1868, California.541. *Hybopsis monaca* (Cope).

Tennessee Basin, in the river channels.

Ceraticthys monacus Cope, Jour. Ac. Nat. Sci. Phila. 1867, 227, Holston River, Washington County, Virginia.542. *Hybopsis dissimilis* (Kirtland). *Spotted Shiner*.

Lake Erie to the headwaters of the Tennessee and west to Arkansas and Iowa.

Luxilus dissimilis Kirtland, Bost. Jour. Nat. Hist., iii, 1840, 341, pl. 4, fig. 2, Mahoning River, Ohio, and Lake Erie near Cleveland, Ohio.

543. *Hybopsis watauga* Jordan & Evermann.

Holston River, Virginia; Watauga River, Tennessee; White River, Arkansas; Big Barren River, Kentucky, and Tippecanoe River, Indiana.

Hybopsis watauga Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 355, Watauga River, Elizabethtown, Tennessee; North Fork of Holston River, Saltville, Virginia.

Subgenus *HYBOPSIS* Agassiz.

544. *Hybopsis labrosa* (Cope).

Basin of the Santee in North and South Carolina.

Ceratichthys labrosus Cope, Proc. Amer. Phil. Soc. 1870, 458, tributaries of Catawba River, McDowell and Burke counties, North Carolina.

545. *Hybopsis hypsinota* (Cope).

Santee Basin, in North and South Carolina.

Ceratichthys hypsinotus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 458, tributaries of Catawba River, McDowell County, North Carolina.

546. *Hybopsis rubrifrons* (Jordan).

Basin of the Altamaha, Georgia.

Nocomis rubrifrons Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 330, Ocmulgee River, Flat Shoals, Georgia.

547. *Hybopsis amblops* (Rafinesque). *Silver Chub*.

New York to Iowa, and southward to Alabama; very common in the Ohio and Tennessee valleys.

Rutilus amblops Rafinesque, Ichth. Ohiensis, 51, 1820, Ohio River at the Falls.

548. *Hybopsis storeriana* (Kirtland).

Lake Erie to Nebraska and eastern Wyoming, Tennessee, and Arkansas; abundant in the larger streams, especially in Iowa and Nebraska.

Rutilus storerianus Kirtland, Proc. Bost. Soc. Nat. Hist., 1, 1842, 71, Lake Erie.

Subgenus *YURIRIA* Jordan & Evermann.

Yuriria Jordan & Evermann, Fishes North and Middle America, 321, 1896 (*altus*).

549. *Hybopsis alta* (Jordan). *Pesca Blanca*.

Lakes and streams of Guanajuato, tributary to Rio Lerma, Mexico, in Pacific drainage.

Hudsonius altus Jordan, Proc. U. S. Nat. Mus. 1879, 301, Lake Tupaturo, Guanajuato, Mexico.

Subgenus *NOCOMIS* Girard.

Nocomis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 190 (*nebrascensis* = *kentuckiensis*).

550. *Hybopsis kentuckiensis* (Rafinesque). *Horny Head*; *River Chub*; *Jerker*; *Indian Chub*.

Pennsylvania to Wyoming and Alabama, on both sides of the Alleghenies; everywhere abundant in the larger streams, seldom ascending small brooks.

Luxilus kentuckiensis Rafinesque, Ichth. Ohiensis, 48, 1820, Ohio River.

Genus 132. *COUESIUS* Jordan.

Coesius Jordan, Bull. Hayden's Geol. Surv. Terr., iv, 785, 1878 (*milneri*).

551. *Coesius squamilentus* (Cope).

Henry Fork of Green River in southwestern Wyoming.

Ceratichthys squamilentus Cope, Hayden's Geol. Surv. Wyo. for 1870 (1872), 442, Henry Fork of Green River, Wyoming, Colorado Basin.

552. *Coesius plumbeus* (Agassiz).

Streams and lakes, from Lake Superior east to the Adirondack region and New Brunswick.

Gobio plumbeus Agassiz, Lake Superior, 366, 1856, Lake Superior.

553. *Coesius dissimilis* (Girard).
Upper Missouri and Black Hills region.
Leucosomus dissimilis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 189, Milk River
and Little Muddy River, Montana.
554. *Coesius greeni* Jordan.
Stuart Lake, headwaters of Fraser River in British Columbia, and Lake Pend
Orcille, Idaho.
Coesius greeni Jordan, Proc. U. S. Nat. Mus. 1893, 313, Stuart Lake, British
Columbia.
555. *Coesius adustus* Woolman.
Rio de los Conchos, Chihuahua, Mexico.
Coesius adustus Woolman, Bull. U. S. Fish Com., XIV, 1894, 57, Rio de los
Conchos, Chihuahua, Mexico.
- Genus 133. **PLATYGOBIO** Gill.
Platygobio Gill, Trans. Amer. Phil. Soc. Phila., v, 1863, 178 (*communis* = *gracilis*).
556. *Platygobio physignathus* (Cope).
Upper waters of Arkansas River; very abundant in the channels, the most
common fish at Pueblo, Colorado.
Ceratichthys physignathus Cope, Wheeler Surv., Zool., v, 651, 1875 (1876),
Arkansas River, Pueblo, Colorado.
557. *Platygobio gracilis* (Richardson). *Flat-headed Chub*.
East slope of the Rocky Mountains, from Missouri and Yellowstone rivers
to the Saskatchewan.
Cyprinus (*Leuciscus*) *gracilis* Richardson, Fauna Bor.-Amer., Fishes, 120, pl. 78,
1836, Saskatchewan River at Carlton-house, Canada.
558. *Platygobio pallidus* Forbes.
One specimen from Ohio River at Cairo.
Platygobio pallidus Forbes, in Jordan & Gilbert, Synopsis, 220, 1883, Ohio
River at Cairo, Illinois.
- Genus 134. **EXOGLOSSUM** Rafinesque.
Exoglossum Rafinesque, Jour. Ac. Nat. Sci. Phila., i, 1818, 420 (*lesueurianum*).
559. *Exoglossum maxillingua* (LeSueur). *Cut-lips*; *Nigger Chub*; *Nigger Dick*.
Lake Ontario, St. Lawrence River, Lake Champlain, Hudson River, and
Cayuga Lake, and southward to Virginia; abundant in the basins of
the Susquehanna, Hudson, Potomac, James, Roanoke, and Kanawha.
Cyprinus maxillingua LeSueur, Jour. Ac. Nat. Sci. Phila., i, 1817, 85, Pipe
Creek, Maryland.
- Genus 135. **LEPIDOMEDA** Cope.
Lepidomeda Cope, Proc. Amer. Phil. Soc. Phila. 1874, 131 (*vittata*).
560. *Lepidomeda vittata* Cope.
Known only from the Colorado Chiquito River, Arizona, and from Pahn-
nagat Valley, Nevada.
Lepidomeda vittata Cope, Proc. Amer. Phil. Soc. Phila. 1874, 131, Rio Colorado
Chiquito, Arizona.
561. *Lepidomeda jarrovii* Cope.
Colorado Chiquito River, Arizona; also in southern Nevada, in springs in
the desert.
Lepidomeda jarrovii Cope, Proc. Amer. Phil. Soc. Phila. 1874, 132, Rio Colo-
rado Chiquito, Arizona.
- Genus 136. **MEDA** Girard.
Meda Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191 (*fulgida*).
562. *Meda fulgida* Girard.
Rio Gila, Arizona.
Meda fulgida Girard, Proc. Ac. Nat. Sci. Phila. 1856, 191, Rio San Pedro, Ari-
zona.

Genus 137. **PLAGOPTERUS** Cope.*Plagopterus* Cope, Proc. Amer. Phil. Soc. Phila. 1874, 130 (*argentissimus*).563. **Plagopterus argentissimus** Cope.

Colorado Basin in western Colorado (Cope); Fort Yuma (Gilbert).

Plagopterus argentissimus Cope, Proc. Amer. Phil. Soc. Phila. 1874, 130, San Luis Valley, Colorado.Suborder **HETEROGNATHI**.Family **XXXVIII. ERYTHRINIDÆ**.Genus 138. **MACRODON** Müller.*Macrodon* Müller, Archiv Anat., 1842, 308 (*trahira* = *malabaricus*).564. **Macrodon microlepis** Günther.

Panama to Ecuador, chiefly west of the Andes; known from Rio Chagres and from Ecuador.

Macrodon microlepis Günther, Cat., v, 282, 1864, western Ecuador; Chagres River, Guatemala.Family **XXXIX. CHARACINIDÆ**. The Characins.Genus 139. **CURIMATA** (Cuvier) Cloquet.*Curimata* Cuvier, in Cloquet, Diet. Hist. Nat., XII, 240, 1818 (*edentula*).565. **Curimata magdalenæ** Steindachner. *Sardina Blanca*.

Rio Magdalena and Rio Mamoni, Colombia.

Curimata magdalenæ Steindachner, Fisch-Fauna des Magdalenen-Stromes, 34, 1878, Rio Magdalena, Colombia.Genus 140. **PIABUCINA** Cuvier & Valenciennes.*Piabucina* Cuvier & Valenciennes, Hist. Nat. Poiss., XXII, 161, 1849 (*erythrinoides*).566. **Piabucina panamensis** Gill.

Rio Frijoli, Atlantic Slope of Isthmus of Panama.

Piabucina panamensis Gill, Proc. Ac. Nat. Sci. Phila. 1876, 336, Rio Frijoli, Isthmus of Panama.Genus 141. **TETRAGONOPTERUS** Cuvier.*Tetragonopterus* (Artedi) Cuvier, Règne An., II, 166, 1817 (*argenteus*).Subgenus **ASTYANAX** Baird & Girard.*Astyanax* Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1854, 26 (*argentatus*).567. **Tetragonopterus æneus** Günther.

Oaxaca, Mexico, and Rio Chagres, south to Brazil.

Tetragonopterus æneus Günther, Proc. Zool. Soc. Lond. 1860, 319, Oaxaca, Mexico.568. **Tetragonopterus rutilus** Jenyns.

Mexico to Ecuador and Rio de la Plata; recorded as common in Central America.

Tetragonopterus rutilus Jenyns, Zool. Beagle, Fishes, 125, 1842, Rio Parana, South America.569. **Tetragonopterus panamensis** Günther.

Streams about Panama and Lake Yzabal.

Tetragonopterus panamensis Günther, Cat., v, 324, 1864, Panama; Lake Yzabal.570. **Tetragonopterus microphthalmus** Günther.

Guatemala (Lake Amatitlan) to Peru.

Tetragonopterus microphthalmus Günther, Cat., v, 324, 1864, Lake Amatitlan; Rio Rimao, Peru.

571. *Tetragonopterus cerstedii* Kroyer.
Rio San Juan, Nicaragua.
Tetragonopterus cerstedii Kroyer, in Lütken, Ict. Bidrag, III, 229, 1874, Rio San Juan, Nicaragua.
572. *Tetragonopterus petenensis* Günther.
Lake Peten to western Ecuador; southeast to Argentine Republic.
Tetragonopterus petenensis Günther, Cat., v, 326, 1864, Lake Peten.
573. *Tetragonopterus scabripinnis* Jenyns.
Jamapa, Mexico, to Rio Janeiro.
Tetragonopterus scabripinnis Jenyns, Zool. Beagle, Fishes, 125, 1842, Rio Janeiro, Brazil.
574. *Tetragonopterus humilis* Günther.
Lake Amatitlan, Guatemala.
Tetragonopterus humilis Günther, Cat., v, 327, 1864, Lake Amatitlan, Guatemala.
575. *Tetragonopterus brevimanus* Günther.
Guatemala.
Tetragonopterus brevimanus Günther, Cat., v, 325, 1864, Yzabal; Rio San Geronimo, Guatemala.
576. *Tetragonopterus mexicanus* Filippi.
Lakes about the City of Mexico.
Tetragonopterus mexicanus Filippi, in Guerin's Rev. Mag. Zool., 166, 1853, City of Mexico.
577. *Tetragonopterus argentatus* (Baird & Girard).
Southern Texas and Mexico (Rio Nueces, Rio Leona, and Rio Grande); also recorded, probably by error, from Arkansas.
Astyanax argentatus Baird & Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 27, Rio Nueces, Rio Leona, Zoquito, Comanche Spring, Elm Creek, Turkey Crook, San Felipe, Devil River, Brownsville, and Rio Sabinas.
- Genus 142. **BRYCON** Müller & Troschel.
Brycon Müller & Troschel, Horv. Ichthyologia, I, 15, 1845 (*falcatus*).
- Subgenus **CHALCINOPSIS** Kner.
Chalcinopsis Kner, Sitzber. Akad. Wiss. München, 226, 1863 (*striatulus*).
578. *Brycon dentex* Günther.
Yucatan to Ecuador.
Brycon dentex Günther, Proc. Zool. Soc. Lond. 1860, 240, Esmeraldas, Ecuador.
579. *Brycon striatulus* (Kner).
Rio Chagres and streams about Panama.
Chalcinopsis striatulus Kner, Sitzber. Akad. Wiss. München, 223, 1863, Panama.
- Genus 143. **GASTEROPELECUS** (Gronow) Pallas.
Gasteropelecus Gronow, Mus. Ichthyol., II, 7, 1763 (nonbinomial).
580. *Gasteropelecus maculatus* Steindachner. *Peche Peche*.
Rio Mamoni, near Panama.
Gasteropelecus maculatus Steindachner, Fluss-Fische Südamerikas, 168, 1879, Rio Mamoni, at Chepo, Panama.
- Genus 144. **RÆBOIDES** Günther.
Ræboides Günther, Cat., v, 347, 1864 (*microlepis*).
581. *Ræboides guatemalensis* (Günther).
Rio Chagres and streams of Guatemala.
Anacyrtus guatemalensis Günther, Cat., v, 347, 1864, Rio Chagres; Huamuchal.

Genus 145. **BRAMOCHARAX** Gill.*Bramocharax* Gill, Proc. Ac. Nat. Sci. Phila. 1877, 189 (*bransfordi*).582. **Bramocharax bransfordi** Gill.

Lake Nicaragua.

Bramocharax bransfordi Gill, Proc. Ac. Nat. Sci. Phila. 1877, 190, Lake Nicaragua.Genus 146. **LUCIOCHARAX** Steindachner.*Luciocharax* Steindachner, Fisch-Fauna des Magdalenen-Stromes, 67, 1878 (*insculptus*).583. **Luciocharax insculptus** Steindachner.

Rio Magdalena, and Rio Mamoni near Panama.

Luciocharax insculptus Steindachner, Fisch-Fauna des Magdalenen-Stromes, 67, 1878, Rio Magdalena, and Rio Mamoni near Panama.Suborder **GYMNONOTI**.Family **XL. GYMNOTIDÆ**.Genus 147. **GITON** Kaup.*Giton* Kaup, in Duméril, Analyt. Ichth., 201, 1856 (*fasciatus*).584. **Giton fasciatus** (Pallas). *Carapo*.

Guatemala to Rio de la Plata; recorded from Rio Matagna and Grenada.

Gymnotus fasciatus Pallas, Spicilegia Zool., VII, 35, 1769, "fresh waters of America."Genus 148. **EIGENMANNIA** Jordan & Evermann.*Eigenmannia* Jordan & Evermann, Fishes North and Middle America, 341, 1896 (*humboldti*).585. **Eigenmannia humboldti** (Steindachner). *Macana*.

Rio Magdalena, and Rio Mamoni near Panama.

Sternopygus humboldti Steindachner, Fisch-Fauna des Magdalenen-Stromes, 55, 1878, Rio Magdalena, Venezuela.Order **O. SYMBRANCHIA**.Family **XLI. SYMBRANCHIDÆ**. The Symbranchoid Eels.Genus 149. **SYMBRANCHUS** Bloch.*Symbranchus* Bloch, Ichthyologia, IX, 87, 1795 (*marmoratus*).586. **Symbranchus marmoratus** Bloch.

Tropical America, in streams from the Amazon northward to southern Mexico and St. Lucia.

Symbranchus marmoratus Bloch, Ichthyologia, IX, 87, pl. 418, 1795, Tropical America.Order **P. CARENCHELYI**. The Long-necked Eels.Family **XLII. DERICHTHYIDÆ**.Genus 150. **DERICHTHYS** Gill.*Derichthys* Gill, Am. Nat., XVIII, 1884, 433 (*serpentinus*).587. **Derichthys serpentinus** Gill.

Gulf Stream.

Derichthys serpentinus Gill, Am. Nat., XVIII, 1884, 433, Gulf Stream at Albatross Station 2094, in 1,022 fathoms.

Order Q. APODES. The Eels.

Suborder ENCHELYCEPHALI. The Eels.

Family XLIII. ANGUILLIDÆ. The True Eels.

Genus 151. ANGUILLA Shaw. *Eels*.

Anguilla Shaw, General Zoology, iv, 15, 1804 (*anguilla*).

588. *Anguilla chrysypa* Rafinesque. *American Eel; Fresh-water Eel*.

Atlantic Coast of the United States; very abundant from Maine to Mexico, ascending all rivers south of Canada and east of the Rocky Mountains and resident throughout the Mississippi Valley; common in the West Indies.

Anguilla chrysypa Rafinesque, Amer. Month. Mag. and Crit. Rev. 1817, 120, Lake George, Hudson River, and Lake Champlain.

Family XLIV. SIMENCHELYIDÆ. The Snub-nosed Eels.

Genus 152. SIMENCHELYS Gill.

Simenchelys Gill, in Goode & Bean, Bull. Essex Inst., 27, 1879 (*parasiticus*).

589. *Simenchelys parasiticus* Gill.

Offshore banks, in deep water, south of Newfoundland; also recorded from the Azores.

Simenchelys parasiticus Gill, in Goode & Bean, Bull. Essex Inst., 27, 1879, Newfoundland Banks.

Family XLV. ILYOPHIDÆ. The Ooze Eels.

Genus 153. ILYOPHIS Gilbert.

Ilyophis Gilbert, Proc. U. S. Nat. Mus. 1891, 351 (*brunneus*).

590. *Ilyophis brunneus* Gilbert.

One specimen from Chatham Island, Galapagos Archipelago, in 634 fathoms.

Ilyophis brunneus Gilbert, Proc. U. S. Nat. Mus. 1891, 352, Chatham Island; Galapagos Archipelago, at Albatross Station 2808, in 634 fathoms.

Family XLVI. SYNAPHOBRANCHIDÆ.

Genus 154. SYNAPHOBRANCHUS Johnson.

Synaphobranchus Johnson, Proc. Zool. Soc. Lond. 1862, 169 (*kaupii*).

591. *Synaphobranchus pinnatus* (Gronow).

North Atlantic and western Pacific; common about the Madeiras, Canaries, etc., and also about the banks of Newfoundland.

Murena pinnata Gronow, Cat. Fish. Brit. Mus., 19, 1854, locality unknown.

Genus 155. HISTIOBRANCHUS Gill.

Histiobranchus Gill, Proc. U. S. Nat. Mus. 1883, 255 (*infernalis*).

592. *Histiobranchus bathybius* (Günther).

Northern and western Pacific in deep water; Bering Strait; off Japan and off Cape of Good Hope; one specimen obtained by Dr. Gilbert in Bering Sea in 1890.

Synaphobranchus bathybius Günther, Ann. and Mag. Nat. Hist., xx, 1877, 445, and in Voy. Challenger, 251, pl. 62, fig. b, 1887, off Yedo; North Pacific; also between Cape of Good Hope and Kerguelen Island.

593. *Histiobranchus infernalis* Gill.

Gulf Stream.

Histiobranchus infernalis Gill, Proc. U. S. Nat. Mus. 1883, 255, Gulf Stream, at Albatross Station 2037, 38° 30' N., 69° W., in 1,731 fathoms.

Family XLVII. LEPTOCEPHALIDÆ. The Conger Eels.

Genus 156. LEPTOCEPHALUS (Gronow) Scopoli. *Conger Eels*.*Leptocephalus* (Gronow) Scopoli, Int. Hist. Nat., 453, 1777 (*morrissi*).594. *Leptocephalus conger* (Linnæus). *Conger Eel*.

Atlantic Ocean; generally common on both coasts, from Cape Cod to Brazil; also on coasts of Asia and Africa.

Muraena conger Linnæus, Syst. Nat., ed. x, 245, 1758, Mediterranean Sea.595. *Leptocephalus caudilimbatus* (Poey).

Tropical parts of Atlantic; Pensacola to Cuba and Madeira.

Echelus caudilimbatus Poey, Repertorio, II, 249, 1867, Cuba.

Genus 157. CONGERMURÆNA Kaup.

Congermuræna Kaup, Apodes, 108, 1856 (*balearica*).596. *Congermuræna balearica* (De la Roche).

Tropical parts of the Atlantic and eastern Pacific; known from the Mediterranean, Cuba, Brazil, St. Helena, Cape San Lucas, and the Galapagos.

Muræna balearica De la Roche, Ann. Mus., XIII, 1809, 327, fig. 3, Balearic Islands.597. *Congermuræna macrura* (Gilbert).

Gulf of California.

Ophisoma macrurum Gilbert, Proc. U. S. Nat. Mus. 1891, 351, Gulf of California, at Albatross Station 3015.598. *Congermuræna prorigera* (Gilbert).

Panama to Ecuador.

Ophisoma prorigerum Gilbert, Proc. U. S. Nat. Mus. 1891, 350, coast of Ecuador, at Albatross Station 2792, in 401 fathoms; also at station 2799, near Panama.599. *Congermuræna nitens* (Jordan & Bollman).

One specimen dredged at Albatross Station 2801, off Panama, 8° 47' N., 79° 29' 30" W., in 14 fathoms.

Ophisoma nitens Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 153, Panama.600. *Congermuræna flava* Goode & Bean.

Albatross Stations 2121 and 2122, in 31 to 34 fathoms; Station 2402, in 111 fathoms; also Blake Station 264, in 84 fathoms.

Congermuræna flava Goode & Bean, Oceanic Ichthyology, 138, fig. 159, 1896, Gulf Stream.

Genus 158. UROCONGER Kaup.

Uroconger Kaup, Apodes, 110, 1856 (*lepturus*).601. *Uroconger vicinus* Vaillant.

Deep waters off the coast of northern Africa; a young individual at Albatross Station 2161, in 146 fathoms.

Uroconger vicinus Vaillant, Expéd. Travailleur et Talisman, 86, pl. 6, fig. 1, 1888, Banc d'Arguin, off Soudan, off Cape Verde Islands.

Family XLVIII. MURÆNESOCIDÆ.

Genus 159. MURÆNESOX McClelland.

Murænesox McClelland, Calcutta Jour. Nat. Hist., IV, 1843, 408 (*tricuspidata*).

Subgenus MURÆNESOX McClelland.

602. *Murænesox coniceps* Jordan & Gilbert.

Cape San Lucas to the coast of Colombia; generally common.

Murænesox coniceps Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 348, Mazatlan, Mexico.603. *Murænesox savanna* (Cuvier).

Cuba to Rio Janeiro, not common; occasional in the Mediterranean Sea.

Muræna savanna Cuvier, Règne Animal, ed. 2, vol. 2, 350, 1829, Martinique.

Genus 160. XENOMYSTAX Gilbert.

Xenomystax Gilbert, Proc. U. S. Nat. Mus. 1891, 348 (*atrarius*).

604. Xenomystax atrarius Gilbert.

Coast of Ecuador.

Xenomystax atrarius Gilbert, Proc. U. S. Nat. Mus. 1891, 348, 1° S., 81° W., at Albatross Station 2792, in 401 fathoms.

Genus 161. HOPLUNNIS Kaup.

Hoplunnis Kaup, Aale Hamb. Mus., 19, 1859 (*schmidtii*).

605. Hoplunnis schmidtii Kaup.

Caribbean Sea at Puerto Cabello, near Aspinwall.

Hoplunnis schmidtii Kaup, Aale Hamb. Mus., 19, pl. 2, fig. 4, 1859, Puerto Cabello, near Aspinwall.

606. Hoplunnis diomedianus Goode & Bean.

A single individual was obtained by the Albatross at Station 2402, Gulf of Mexico, 28° 36' N., 86° 50' W., 111 fathoms.

Hoplunnis diomedianus Goode & Bean, Oceanic Ichthyology, 146, 1896, Gulf of Mexico.

Genus 162. NEOCONGER Girard.

Neoconger Girard, U. S. Mex. Bound. Surv., Ichth., 77, 1859 (*mucronatus*).

607. Neoconger mucronatus Girard.

Coast of Texas.

Neoconger mucronatus Girard, U. S. Mex. Bound. Surv., Ichth., 77, 1859, St. Joseph Island, Texas.

608. Neoconger vermiformis Gilbert.

Lower California and Panama.

Neoconger vermiformis Gilbert, Proc. U. S. Nat. Mus. 1890, 57, off Lower California, at Albatross Station 3035, in about 30 fathoms.

Genus 163. LEPTOCONGER Poey.

Leptoconger Poey, Anales Hist. Nat. Esp., 250, 1880 (*perlongus*).

609. Leptoconger perlongus (Poey).

Matanzas, Cuba.

Neoconger perlongus Poey, Ann. Lyc. Nat. Hist. N. Y., 1874, 67, pl. 9, fig. 3-4, Matanzas, Cuba.

Genus 164. STILBISCUS Jordan & Bollman.

Stilbiscus Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 549 (*edwardsi*).

610. Stilbiscus edwardsi Jordan & Bollman.

Green Turtle Cay, one of the Bahamas.

Stilbiscus edwardsi Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 549, Green Turtle Cay, Bahamas.

Genus 165. GORDIICHTHYS Jordan & Davis.

Gordiichthys Jordan & Davis, Prelim. Review Apodal Fishes, in Rept. U. S. Fish Com. 1888 (1892), 644 (*irretitus*).

611. Gordiichthys irretitus Jordan & Davis.

Snapper Banks off west Florida, in rather deep water.

Gordiichthys irretitus Jordan & Davis, Apodal Fishes, 644, 1892, off Pensacola, Florida.

Family XLIX. NETTASTOMIDÆ. The Sorcerers.

Genus 166. CHLOPSIS Rafinesque.

Chlopsis Rafinesque, Indice Ittiol. Sicil., 58, 1810 (*bicolor*).612. *Chlopsis equatorialis* Gilbert.

Coast of Ecuador.

Chlopsis equatorialis Gilbert, Proc. U. S. Nat. Mus. 1891, 347, off coast of Ecuador, 1° S., 81° W., at Albatross Station 2792, in 401 fathoms.

Genus 167. VENEFICA Jordan & Davis.

Venefica Jordan & Davis, Apodal Fishes, 651, 1892 (*procera*).613. *Venefica procera* (Goode & Bean).

Gulf Stream; also taken off San Pedro, California.

Nettastoma procera Goode & Bean, Bull. Mus. Comp. Zool., x, 224, 1883. Gulf Stream, at Albatross Station 325, 33° 35' 20" N., 76° W., in 647 fathoms; also at Station 327.

Family L. NEMICHTHYIDÆ. The Snipe Eels.

Genus 168. SERRIVOMER Gill & Ryder.

Serrivomer Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 260 (*beanii*).614. *Serrivomer beanii* Gill & Ryder.

Gulf Stream; also taken in the Gulf of California.

Serrivomer beanii Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261, Gulf Stream, latitude 41° 40' 30", longitude 65° 28' 30", in 855 fathoms.

Genus 169. SPINIVOMER Gill & Ryder.

Spinivomer Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261 (*goodiei*).615. *Spinivomer goodiei* Gill & Ryder.

Gulf Stream.

Spinivomer goodiei Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261, Gulf Stream, at latitude 38° 19' 26", longitude 68° 20' 20", in 2,361 fathoms.

Genus 170. AVOCETTINA Jordan & Davis.

Avocettina Jordan & Davis, Apodal Fishes, 655, 1892 (*infans*).616. *Avocettina infans* (Günther).

Known from West Indies, mid-Atlantic, off Pernambuco.

Nemichthys infans Günther, Ann. and Mag. Nat. Hist. 1878, 24, and in Voy. Challenger, xxii, 264, 1887, mid-Atlantic, in 2,500 fathoms.617. *Avocettina gilli* (Bean).

Coast of southeastern Alaska in deep water.

Labichthys gilli Bean, Proc. U. S. Nat. Mus. 1890, 45, east of Prince of Wales Island, Alaska.

Genus 171. LABICHTHYS Gill & Ryder.

Labichthys Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 261 (*carinatus*).618. *Labichthys carinatus* Gill & Ryder.

Gulf Stream.

Labichthys carinatus Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 253, 255, 261, Gulf Stream, 41° 13' N., 65° 33' W.619. *Labichthys elongatus* Gill & Ryder.

Gulf Stream.

Labichthys elongatus Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 262, Gulf Stream, at Albatross Station 2100, 39° 22' N., 68° 34' W.

Genus 172. **NEMICHTHYS** Richardson.

Nemichthys: Richardson, Voy. Samarang, 16, 1848 (*scolopaceus*).

620. **Nemichthys scolopaceus** Richardson. *Snipe Eel*.
Atlantic Ocean, in deep water; many specimens taken off the New England coast and off the Grand Banks; common about Madeira.
Nemichthys scolopacea Richardson, Voy. Samarang, 25, 1848, South Atlantic.
621. **Nemichthys avocetta** Jordan & Gilbert.
Puget Sound near Seattle; only the type known.
Nemichthys avocetta Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 409, harbor of Port Gamble, Puget Sound, near Seattle.

Family LI. **MYRIDÆ**. The Worm Eels.Genus 173. **AHLIA** Jordan & Davis.

Ahlia Jordan & Davis, Apodal Fishes, 639, 1892 (*egmontis*).

622. **Ahlia egmontis** (Jordan).
Egmont Key, Florida.
Myrophis egmontis Jordan, Proc. Ac. Nat. Sci. Phila. 1884, 44, Egmont Key.

Genus 174. **MYROPHIS** Lütken.

Myrophis Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851 (*punctatus*).

623. **Myrophis punctatus** Lütken.
West Indies; coast of Texas to Surinam; common along our Gulf Coast.
Myrophis punctatus Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851, West Indies.

624. **Myrophis vafer** Jordan & Gilbert.

Pacific Coast of Tropical America, from Guaymas to Panama.

Myrophis vafer Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 645, Panama.

Genus 175. **CHILORHINUS** Lütken.

Chilorhinus Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851 (*suensonii*).

625. **Chilorhinus suensonii** Lütken.

St. Croix, West Indies.

Chilorhinus suensonii Lütken, Vidensk. Meddel. Naturg. Foren. Kjöbenhavn, 1, 9, 1851, St. Croix, West Indies.

Family LII. **OPHICHTHYIDÆ**. The Snake Eels.Genus 176. **SPHAGEBRANCHUS** Bloch.

Sphagebranchus Bloch, Ichthyologia, IX, 88, pl. 419, 1795 (*rostratus*).

626. **Sphagebranchus anguiformis** (Peters).

Open Atlantic, near the West Indies.

Ophichthys (Sphagebranchus) anguiformis Peters, Berlin. Monatsber. 1876, 849, Atlantic Ocean, 15° 40' N., 23° 5' W.

627. **Sphagebranchus selachops** (Jordan & Gilbert).

Rocks about Cape San Lucas.

Apterichthys selachops Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 356, Cape San Lucas.

Genus 177. **VERMA** Jordan & Evermann.

Verma Jordan & Evermann, Fishes N. and M. Amer., 374, 1896 (*kendalli*).

628. **Verma kendalli** (Gilbert).

Coast of Florida, in rather deep water.

Sphagebranchus kendalli Gilbert, Bull. U. S. Fish Com., IX, 1889 (1891), 310, off west coast of Florida, 25° 34' N., 82° 50' W., in 25 fathoms.

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Genus 178. **LETHARCHUS** Goode & Bean.*Letharchus* Goode & Bean, Proc. U. S. Nat. Mus. 1882, 437 (*velifer*).629. **Letharchus velifer** Goode & Bean.

Coast of Florida, in rather deep water; known only from the Snapper Banks off Pensacola and Tampa.

Letharchus velifer Goode & Bean, Proc. U. S. Nat. Mus. 1882, 437, West Florida.Genus 179. **MYRICHTHYS** Girard.*Myrichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1859, 58 (*tigrinus*).630. **Myrichthys tigrinus** Girard.

Pacific Coast of Mexico; rather common about Mazatlan, and occasionally ranging northward.

Myrichthys tigrinus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 58, Adair Bay, Oregon.631. **Myrichthys ocellatus** (Kaup).

Tropical Atlantic; Cuba to Surinam, and Cape Verde Islands.

Pisoodonophis ocellatus Kaup, Apodes, 22, 1856, Curaçoa.632. **Myrichthys acuminatus** (Gronow).

West Indies, occasionally northward to Florida Keys.

Muræna acuminata Gronow, Fishes Brit. Mus., 21, 1854, Insula Div. Eustachii.Genus 180. **PISOODONOPHIS** Kaup.*Pisoodonophis* Kaup, Apodal Fishes, 17, 1856 (*horo*).633. **Pisoodonophis cruentifer** Goode & Bean.Two specimens at Station 1035 of U. S. Fish Commission steamer *Fish Hawk*, 39° 57' N., 69° 28' W., in 120 fathoms; four others at nearly same region in 245 fathoms.*Pisoodonophis cruentifer* Goode & Bean, Oceanic Ichthyology, 147, fig. 166, 1896, Gulf Stream.Genus 181. **CALLECHELYS** Kaup.*Callechelys* Kaup, Apodes, 28, 1856 (*guichenoti*).634. **Callechelys muræna** Jordan & Evermann.

Snapper Banks off Pensacola.

Callechelys muræna Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 466, Snapper Banks.Genus 182. **BASCANICHTHYS** Jordan & Davis.*Bascanichthys* Jordan & Davis, Apodal Fishes, 621, 1892 (*bascanium*).635. **Bascanichthys scuticaris** (Goode & Bean).

West coast of Florida.

Sphagebranchius scuticaris Goode & Bean, Proc. U. S. Nat. Mus. 1879, 343, Cedar Key, Florida.636. **Bascanichthys peninsulæ** (Gilbert).

La Paz Bay, Gulf of California.

Callechelys peninsulæ Gilbert, Proc. U. S. Nat. Mus. 1891, 548, La Paz Bay.637. **Bascanichthys bascanium** (Jordan).

Egmont Key, Florida.

Cucula bascanium Jordan, Proc. Ac. Nat. Sci. Phila. 1884, 43, Egmont Key, Florida.

Genus 183. QUASSIREMUS Jordan & Davis.*Quassiremus* Jordan & Davis, Apodal Fishes, 622, 1892 (*evionthas*).**638. Quassiremus nothochir (Gilbert).**

San Josef Island, Gulf of California.

Ophichthys nothochir Gilbert, Proc. U. S. Nat. Mus. 1890, 58, San Josef Island, Gulf of California.**639. Quassiremus evionthas (Jordan & Bollman).**

Hood Island, Galapagos Archipelago.

Ophichthus evionthas Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 154, Hood Island, Galapagos Archipelago.**Genus 184. OPHICHTHUS Thunberg & Ahl.***Ophichthus* Thunberg & Ahl, De Muraena et Ophichtho, 1789 (*ophis*).**Subgenus CRYPTOPTERUS Kaup.***Cryptopterus* Kaup, Aale Hamburg, 1859 (*puncticeps*).**640. Ophichthus puncticeps (Kaup).**

Caribbean Sea at Puerto Cabello, near Aspinwall.

Cryptopterus puncticeps Kaup, Aale Hamb. Mus., II, pl. 1, fig. 2, 1859, Puerto Cabello, Caribbean Sea.**Subgenus OPHICHTHUS Thunberg & Ahl.****641. Ophichthus havannensis (Bloch & Schneider).**

West Indies; apparently not common.

Muraena havannensis Bloch & Schneider, Syst. Ichth., 491, 1801, Havana; after Parra.**642. Ophichthus retropinnis (Eigenmann).**

Snapper Banks, off Pensacola, Florida.

Ophichthys retropinnis Eigenmann, Proc. U. S. Nat. Mus. 1887, 116, Snapper Banks, off Pensacola.**Subgenus MURENOPSIS Kaup.***Muraenopsis* Kaup, Apodes, 11, 1856 (*ocellatus*).**643. Ophichthus guttifer (Bean & Dresel).**

Snapper Banks, off Pensacola, Florida.

Ophichthys guttifer Bean & Dresel, Proc. Biol. Soc. Wash., II, 1884, 100, Snapper Banks, off Pensacola, Florida.**644. Ophichthus ocellatus (LeSueur).**

West Indies, south to Brazil and north to Pensacola.

Muraenopsis ocellatus LeSueur, Jour. Ac. Nat. Sci. Phila., v, 1825, 108, pl. 4, fig. 3, South America.**645. Ophichthus triserialis (Kaup).**

Pacific Coast of Tropical America, rather common, from Lower California to the Galapagos.

Muraenopsis triserialis Kaup, Apodes, 12, 1856, Pacific.**Subgenus SCYTALOPHIS Kaup.***Scytalophis* Kaup, Apodes, 13, 1856 (*magnioculus*).**646. Ophichthus gomesii (Castelnaud). Sea Serpent; Sea Eel; Whipsnake Eel.**

South Carolina to Rio Janeiro; generally common, especially about the Florida Keys and Cuba.

Ophisurus gomesii Castelnaud, Anim. Am. Sud, 84, pl. 44, fig. 2, 1855, Rio Janeiro.**647. Ophichthus zophochir (Jordan & Gilbert).**

Pacific Coast of Mexico, Guaymas to Acapulco.

Ophichthys zophochir Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 347, Mazatlan, Mexico.

648. *Ophichthus magnioculis* (Kaup).
West Indies to Brazil; Aspinwall.
Scytalophis magnioculis Kaup, Apodes, 13, fig. 7, 1856, St. Croix and Brazil.
649. *Ophichthus parilis* (Richardson).
Cuba to Brazil.
Ophisurus parilis Richardson, Voy. Erebus and Terror, 105, 1844, West Indies.
- Genus 185. MYSTRIOPHIS Kaup.
Mystriophis Kaup, Apodes, 10, 1856 (*rostellatus*).
- Subgenus ECHIOPSIS Kaup.
Echiopsis Kaup, Abhandl. Natur. Verein Hamburg, iv, 13, 1860 (*intertinctus*).
650. *Mystriophis intertinctus* (Richardson).
West Indies, north to Pensacola, Florida.
Ophisurus intertinctus Richardson, Voy. Erebus and Terror, Fishes, 102, 1844, West Indies.
- Genus 186. SCYTALICHTHYS Jordan & Davis.
Scytalichthys Jordan & Davis, Apodal Fishes, 635, 1892 (*miurus*).
651. *Scytalichthys miurus* (Jordan & Gilbert).
Cape San Lucas, Lower California.
Ophichthys miurus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 357, Cape San Lucas, Lower California.
- Genus 187. BRACHYSOMOPHIS Kaup.
Brachysomophis Kaup, Apodes, 9, 1856 (*horridus*).
652. *Brachysomophis crocodilinus* (Bennett).
East Indies; a specimen recorded by Günther from the Galapagos.
Ophisurus crocodilinus Bennett, Proc. Zool. Soc. Lond. 1833, 32, Mauritius.

Suborder COLOCEPHALI.

Family LIII. MURÆNIDÆ. The Morays.

- Genus 188. ENCHELYCORE Kaup.
Enchelycore Kaup, Apodes, 72, 1856 (*euryrhina*).
653. *Enchelycore nigricans* (Bonnaterre).
West Indies; rather common.
Muraena nigricans Bonnaterre, Encycl. Meth. Ichth., 34, 1788, South America; after Gronow.
- Genus 189. PYTHONICHTHYS Poey.
Pythonichthys Poey, Repertorio, II, 265, 1867 (*sanguineus*).
654. *Pythonichthys sanguineus* Poey.
Coast of Cuba, in rather deep water.
Pythonichthys sanguineus Poey, Repertorio, II, 265, pl. 2, fig. 7, 1867, Cuba.
- Genus 190. RABULA Jordan & Davis.
Rabula Jordan & Davis, Apodal Fishes, 589, 1892 (*aquædulcis*).
655. *Rabula aquædulcis* (Cope).
Two specimens known, one said to be from San Diego, the type from Rio Grande in Costa Rica.
Muraena aquædulcis Cope, U. S. Geol. Surv. Mont., etc., 474, 1871 (1872), Rio Grande near San Jose, Costa Rica.
656. *Rabula marmorea* (Valenciennes).
Galapagos Islands.
Muranophis marmoreus Valenciennes, Voy. Vénus, Zool., 347, pl. 10, fig. 1, 1855, Galapagos Archipelago.

657. *Rabula panamensis* (Steindachner).
Pacific Coast of Central America.
Murana panamensis Steindachner, Ichth. Beit., v, 19, 1876, Panama.
658. *Rabula longicauda* (Peters).
Tropical Atlantic, off the West Indies.
Murana longicauda Peters, Berliner Monatsberichte 1876, 850, open Atlantic.
- Genus 191. LYCODONTIS McClelland.
Lycodontis McClelland, Calcutta Jour. Nat. Hist., v, No. 18, 1844, 173 (*literata* = *tile*).
- Subgenus LYCODONTIS McClelland.
659. *Lycodontis verrilli* (Jordan & Gilbert).
Panama; one specimen known.
Sidera verrilli Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 623, Panama.
660. *Lycodontis vicinus* (Castelnau).
Tropical Atlantic, Cuba to Africa and Brazil.
Muranophis vicina Castelnau, Anim. Amer. Sud, Poiss., 81, pl. 42, fig. 4, 1855, Bahia, Brazil.
661. *Lycodontis virescens* (Poey).
Cuba.
Gymnothorax virescens Poey, Enumeratio, 156, 1875, Cuba.
662. *Lycodontis polygonius* (Poey).
Cuba.
Gymnothorax polygonius Poey, Ann. N. Y. Lyc. Nat. Hist. 1870, 68, Havana.
663. *Lycodontis moringa* (Cuvier). *Common Spotted Moray; Hamlet; Eel*.
West Indies, Pensacola to Rio Janeiro and St. Helena.
Murana moringa Cuvier, Règne Animal, ed. II, vol. 2, 352, 1829, Bahamas; after Catesby.
664. *Lycodontis mordax* (Ayres). *Conger Eel of California*.
Point Conception to Cerros Island; abundant about the Santa Barbara Islands.
Murana mordax Ayres, Proc. Ac. Nat. Sci. Cal. 1859, 30, Cerros Island.
665. *Lycodontis funebris* (Ranzani). *Black Moray; Morena Ferde*.
Tropical America on both coasts; common from Florida Keys to Rio Janeiro, and from Gulf of California to Panama.
Gymnothorax funebris Ranzani, Nov. Com. Ac. Sci. Inst. Bonon., IV, 76, 1840, Brazil.
666. *Lycodontis castaneus* (Jordan & Gilbert).
Pacific coast from Gulf of California to Panama
Sidera castanea Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 647, Mazatlan.
667. *Lycodontis sanctæ-helenæ* (Günther).
Tropical Atlantic; recorded from St. Helena and the Bermudas.
Murana sancta-helenæ Günther, Cat., VIII, 115, 1870, St. Helena.
668. *Lycodontis dovii* (Günther). *Morena Pintita*.
Gulf of California to the Galapagos Archipelago.
Murana dovii Günther, Cat., VIII, 103, 1870, Panama.
669. *Lycodontis conspersus* (Poey).
Cuba to Rio Janeiro.
Gymnothorax conspersus Poey, Repertorio, II, 259, 1868, Cuba.
670. *Lycodontis miliaris* (Kaup).
West Indies.
Thrysoidea miliaris Kaup, Apodes, 90, 1856, Martinique.

671. *Lycodontis elaboratus* (Poey).

Cuba.

Muræna elaborata Poey, Memorias, II, 323, 1860, Cuba.672. *Lycodontis obscuratus* (Poey).

Cuba.

Gymnothorax obscuratus Poey, Ann. Lyc. Nat. Hist. N. Y., IX, 1870, 320, Cuba.673. *Lycodontis chleevastes* (Jordan & Gilbert).

Galapagos Islands.

Sidera chleevastes Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 208, Galapagos Islands.

Subgenus PRIODONOPHIS Kaup.

Priodonophis Kaup, Aalenähnliche Fische Hamburg Museum, 22, 1859 (*ocellatus*).674. *Lycodontis ocellatus* (Agassiz). *Spotted Moray*; *Moray Eel*.

Pensacola to Rio Janeiro.

Gymnothorax ocellatus Agassiz, Spix, Pisc. Brasil., 91, pl. 50b, 1828, Brazil.674a. *Lycodontis ocellatus saxicola* (Jordan & Davis).

Snapper Banks off Pensacola and deep water off Cuba.

Gymnothorax ocellatus saxicola Jordan & Davis, Apodal Fishes, 606, 1892, Snapper Banks off Pensacola, Florida.674b. *Lycodontis ocellatus nigromarginatus* (Girard).

Coasts of west Florida and Texas.

Neomuræna nigromarginata Girard, U. S. and Mex. Bound. Surv., 76, pl. 41, 1859, St. Joseph Island, Texas.Genus 192. MURÆNA (Artedi) Linnæus. *Morays*.*Muræna* Artedi, in Linnæus, Syst. Nat., ed. x, 244, 1758 (*helenæ*).675. *Muræna insularum* Jordan & Davis.

Galapagos Islands.

Muræna insularum Jordan & Davis, Apodal Fishes, 609, 1892, Chatham Island, Galapagos Islands.676. *Muræna argus* (Steindachner).

Altata, west coast of Mexico.

Gymnothorax (Limamuræna) argus Steindachner, Ichth. Notizen, x, 17, pl. IV, 1870, Altata, west coast of Mexico.677. *Muræna retifera* Goode & Bean.

Coast of South Carolina, in rather deep water.

Muræna retifera Goode & Bean, Proc. U. S. Nat. Mus. 1882, 435, off Charleston.678. *Muræna melanotis* (Kaup).

Tropical Atlantic, from Africa to South America.

Limamuræna melanotis Kaup, Aale Haub. Mus., 27, pl. 4, fig. 3, 1860.679. *Muræna lentiginosa* Jenyns. *Morena Pinta*.

Pacific Coast of America from Gulf of California to Galapagos.

Muræna lentiginosa Jenyns, Voy. Beagle, Zool., 143, 1842, Galapagos Islands.

Genus 193. ECHIDNA Forster.

Echidna Forster, Enchiridion, 31, 1778 (*variegata*).680. *Echidna nocturna* (Cope).

Pacific Coast of Mexico, the two known specimens from Rio Grande, in Costa Rica, and from Cape San Lucas.

Pæcilophis nocturnus Cope, U. S. Geol. Surv. Mont., 474, 1871 (1872), Rio Grande at San Jose, Costa Rica.681. *Echidna catenata* (Bloch).

West Indies, from Bermuda to Surinam; our specimens from San Lucia.

Gymnothorax catenatus Bloch, Ansl. Fische, XII, 74, pl. 415, fig. 1, 1795, Coromandel; an error.

Genus 194. UROPTERYGIUS Ruppell.*Uropterygius* Ruppell, Neue Wirbelthiere, Fische, 83, 1838 (*concolor*).**Subgenus SCUTICA Jordan & Evermann.***Scutica* Jordan & Evermann, Fishes North and Middle America, 404, 1896 (*necturus*).**682. Uropterygius necturus (Jordan & Gilbert).**

Gulf of California.

Gymnomurana nectura Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 356, Cape San Lucas.**Genus 195. CHANNOMURÆNA Richardson.***Channo-muræna* Richardson, Voy. Erebus and Terror, 96, 1844 (*vittata*).**683. Channomuræna vittata (Richardson).**

Coasts of Cuba.

Ichthyophis vittatus Richardson, Voy. Sulph., Fish., 114, pl. 53, figs. 7-9, 1844, locality uncertain.**Order R. LYOMERI. The Gulpers.****Family LIV. SACCOPHARYNGIDÆ. The Gulpers.****Genus 196. SACCOPHARYNX Mitchill.***Saccopharynx* Mitchill, Ann. Lyc. Nat. Hist. N. Y. 1824, 82 (type afterwards called *S. flagellum*).**684. Saccopharynx ampullaceus (Harwood).**

Atlantic.

Ophiognathus ampullaceus Harwood, Phil. Trans. 1827, 52, Atlantic.**Family LV. EURYPHARYNGIDÆ.****Genus 197. GASTROSTOMUS Gill & Ryder.***Gastrostomus* Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 271 (*bairdii*).**685. Gastrostomus bairdii Gill & Ryder.**

Deep water off Newfoundland Banks and Davis Strait.

Gastrostomus bairdii Gill & Ryder, Proc. U. S. Nat. Mus. 1883, 271, off the Grand Banks.**Order S. ISOSPONDYLI. The Isospondylous Fishes.****Family LVI. ELOPIDÆ. The Tarpons.****Genus 198. TARPON Jordan & Evermann. Grand Écaille.***Tarpon* Jordan & Evermann, Fishes North and Middle America, 409, 1896 (*atlanticus*).**686. Tarpon atlanticus (Cuvier & Valenciennes). Tarpon; Tarpun; Grand Écaille.**

Long Island to Brazil.

Megalops atlanticus Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 398, 1846, Guadeloupe; San Domingo; Martinique; Porto Rico.**Genus 199. ELOPS Linnæus.***Elops* Linnæus, Syst. Nat., ed. XII, 518, 1766 (*saurus*).**687. Elops saurus Linnæus. Tenpounder; John-Mariggle; Bony-fish; Bone-fish; Big-eyed Herring; Matajuelo Real; Lisa Francesa.**

Tropical seas; common north to the Gulf of California and to Long Island on the Atlantic Coast.

Elops saurus Linnæus, Syst. Nat., ed. XII, 518, 1766, Carolina.

Family LVII. ALBULIDÆ. The Lady-Fishes.

Genus 200. ALBULA (Gronow) Bloch & Schneider.

Albula Gronow, Zoophyl., 102, 1763 (nonbinomial).

688. *Albula vulpes* (Linnaeus). *Lady-fish; Bone-fish; Macabi; Banana-fish.*
Tropical seas, ranging northward to San Diego and Long Island.
Esox vulpes Linnaeus, Syst. Nat., ed. x, 313, 1758, Bahamas, etc.; based on the
bone-fish, *Vulpes bahamensis*, of Catesby.

Family LVIII. HIODONTIDÆ. The Moon-eyes.

Genus 201. HIODON LeSueur.

Hiodon LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 334 (*tergisus*).

Subgenus AMPHIODON Rafinesque.

Amphiodon Rafinesque, Jour. Physique 1819, 421 (*alosoides*).

689. *Hiodon alosoides* (Rafinesque). *La Quesche; Naccaysh.*
Ohio River and north to the Saskatchewan.
Amphiodon alosoides (misprinted *alveoides*) Rafinesque, Jour. Phys., Paris, 1819,
421, Ohio River.

Subgenus HIODON LeSueur.

690. *Hiodon tergisus* LeSueur. *Moon-eye; Toothed Herring.*
Great Lakes and Mississippi Valley, north to Assiniboine River.
Hiodon tergisus LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 364, Ohio River.

691. *Hiodon selenops* Jordan & Bean.
Tennessee, Cumberland, and Alabama rivers.
Hiodon selenops Jordan & Bean, Bull. U. S. Nat. Mus., x, 67, 1877, Chatta-
nooga, Tennessee.

Family LIX. CHANIDÆ. The Milk-Fishes.

Genus 202. CHANOS Lacépède.

Chanos Lacépède, Hist. Nat. Poiss., v, 395, 1803 (*arabicus*).

692. *Chanos chanos* (Forskål). *Milkfish; Sabalo; Aua; Chani; Anged.*
Pacific and Indian oceans, north to Hawaiian Islands and Gulf of California.
Mugil chanos Forskål, Deser. Anim., 74, 1775, Red Sea at Djidda, Arabia.

Family LX. DOROSOMATIDÆ. The Gizzard Shads.

Genus 203. DOROSOMA Rafinesque. *Gizzard Shad.**Dorosoma* Rafinesque, Ichth. Ohiensis, 39, 1820 (*notata* = *cepedianum*).

693. *Dorosoma cepedianum* (LeSueur). *Gizzara Shad; Hickory Shad.*
Cape Cod to Mexico; from New Jersey and the Great Lakes to Nebraska
and Texas.
Megalops cepediana LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1818, 361, Delaware
and Chesapeake bays.

- 693a. *Dorosoma cepedianum exile* Jordan & Gilbert.
Coastal region of Texas.
Dorosoma cepedianum exile Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 585,
Galveston, Texas.

694. *Dorosoma mexicanum* (Günther).
East coast of Mexico.
Chatoissus mexicanus Günther, Cat., vii, 409, 1868, Mexico.

695. *Dorosoma petenense* (Günther).
Lake Peten, Yucatan.
Chatoissus petenensis Günther, Cat., vii, 408, 1868, Lake Peten, Yucatan.

Family LXI. CLUPEIDÆ. The Herrings.

Genus 204. JENKINSIA Jordan & Evermann.

Jenkinsia Jordan & Evermann, Fishes N. and M. Amer., 418, 1896 (*stolifera*).

696. *Jenkinsia acuminata* (Gilbert).

Gulf of California.

Etrumeus acuminatus Gilbert, Proc. U. S. Nat. Mus. 1890, 56, Gulf of California.

697. *Jenkinsia lamprotaenia* (Gosse).

Jamaica.

Clupea lamprotaenia Gosse, Nat. Sojourn Jam., 291, pl. 1, fig. 2, 1851, Jamaica.

698. *Jenkinsia stolifera* (Jordan & Gilbert).

Gulf of Mexico from Florida to Yucatan.

Dussumieria stolifera Jordan & Gilbert, Proc. U. S. N. M. 1884, 25, Key West.

Genus 205. ETRUMEUS Bleeker.

Etrumeus Bleeker, Verh. Bat. Gen. Japan, xxv, 58, 1853 (*micropus*, a Japanese species).

699. *Etrumeus sadina* (Mitchill). *Round Herring*.

Cape Cod to Gulf of Mexico.

Clupea sadina Mitchill, Trans. Lit. Phil. Soc. N. Y. 1815, 457, New York.

Genus 206. PERKINSIA Rosa Smith Eigenmann.

Perkinsia Rosa Smith Eigenmann, Am. Nat., February, 1891, 153 (*othonops*).

700. *Perkinsia othonops* Rosa Smith Eigenmann.

Point Loma, San Diego.

Perkinsia othonops Rosa Smith Eigenmann, Am. Nat., February, 1891, 152, San Diego, Cal.

Genus 207. CLUPEA (Artedi) Linnæus.

Clupea (Artedi) Linnæus, Syst. Nat., ed. x, 317, 1758 (*harengus*).

701. *Clupea harengus* Linnæus. *Common Herring*.

North Atlantic Ocean, south on our coast to Sandy Hook.

Clupea harengus Linnæus, Syst. Nat., ed. x, 317, 1758, seas of Europe.

702. *Clupea pallasii* Cuvier & Valenciennes. *California Herring*

Pacific Coast from Kamchatka to San Diego.

Clupea pallasii Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 253, 1847, Kamchatka; based on Pallas's specimens.

Genus 208. CLUPANODON Lacépède.

Clupanodon Lacépède, Hist. Nat. Poiss., v, 468, 1803 (*pilchardus*, etc.).

703. *Clupanodon cæruleus* (Girard). *California Sardine*.

Pacific Coast, from Puget Sound to Magdalena Bay.

Maletta cærulea Girard, Proc. Ac. Nat. Sci. Phila. 1854, 138, San Francisco.

704. *Clupanodon pseudohispanicus* (Poey). *Sardina de España*.

Gulf of Mexico, Cuba, Pensacola, and Tampa; northward to Cape Cod.

Sardinia pseudohispanica Poey, Memorias, II, 311, 1860, Cuba.

Genus 209. POMOLOBUS Rafinesque.

Pomolobus Rafinesque, Ichth. Ohiensis, 38, 1820 (*chrysochloris*).

705. *Pomolobus chrysochloris* Rafinesque. *Skipjack*; *Blue Herring*.

Gulf of Mexico and Mississippi Valley; Lake Erie and Lake Michigan.

Pomolobus chrysochloris Rafinesque, Ichth. Ohiensis, 38, 1820, Ohio River.

706. *Pomolobus mediocris* (Mitchill). *Hickory Shad*; *Hickory Jack*; *Fall Herring*; *Tailor Herring*; *Mallowacca*.

Atlantic Coast of United States from Maine to Florida.

Clupea mediocris Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 450, New York.

- 707. *Pomolobus pseudoharengus*** (Wilson). *Alewife; Branch Herring; Gaspereau; Wall-eyed Herring; Big-eyed Herring; Ellwife; Bang.*
Atlantic Coast of United States; Lake Ontario.
Clupea pseudoharengus Wilson, Rees's Encycl., ix, about 1811, probably Delaware River near Philadelphia.
- 708. *Pomolobus æstivalis*** (Mitchill). *Glut Herring; Blueback; Blackback; Summer Herring; Kyaok; Saw-belly.*
Atlantic Coast.
Clupea æstivalis Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, 456, New York.
- Genus 210. ALOSA Cuvier.** *The Shad.*
Alosa Cuvier, Règne Animal, ed. 2, ii, 319, 1829 (*alosa*).
- 709. *Alosa alabamæ*** Jordan & Evermann. *Alabama Shad.*
Gulf Coast of United States.
Alosa alabamæ Jordan & Evermann, Rept. U. S. Fish Com. 1895 (1896), 203, Black Warrior River, Tuscaloosa, Alabama.
- 710. *Alosa sapidissima*** (Wilson). *Common Shad; American Shad; North River Shad; Potomac Shad; Connecticut Shad; Delaware Shad.*
Atlantic Coast of United States from Miramachi River to Florida; from Monterey northward on the Pacific Coast, as an introduced species.
Clupea sapidissima Wilson, Rees's New Cyclopaedia, ix, no pagination nor date, but prior to 1812, probably Philadelphia.
- Genus 211. SARDINELLA Cuvier & Valenciennes.** *Scaled Sardines.*
Sardinella Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 261, 1847 (*aurita*).
- Subgenus SARDINELLA Cuvier & Valenciennes.**
- 711. *Sardinella anchovia*** Cuvier & Valenciennes.
Martinique to Brazil.
Sardinella anchovia Cuvier & Valenciennes, Hist. Nat. Poiss., 269, 1847, Rio Janeiro; Martinique.
- 712. *Sardinella clupeiola*** (Cuvier & Valenciennes).
Guadeloupe.
Harengula clupeiola Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 289, 1847, Guadeloupe.
- 713. *Sardinella apicalis*** (Müller & Troschel).
Barbados.
Alosa apicalis Müller & Troschel, in Schomburgk, Hist. Barbados, 675, 1848, Barbados.
- 714. *Sardinella bischopi*** (Müller & Troschel).
Barbados.
Alosa bischopi Müller & Troschel, in Schomburgk, Hist. Barbados, 675, 1848, Barbados.
- Subgenus HARENGULA Cuvier & Valenciennes.**
Harengula Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 280, 1847 (*latula*).
- 715. *Sardinella sardina*** (Poey). *Sardina de Ley.*
West Indian fauna, north to Key West.
Harengula sardina Poey, Memorias, ii, 310, 1860, Cuba.
- 716. *Sardinella macrophthalma*** (Ranzani).
West Indies; Cuba to Brazil.
Clupea macrophthalma Ranzani, Nov. Com. Ac. Sci. Bonon., v, 320, 1842, Brazil.
- 717. *Sardinella thrissina*** (Jordan & Gilbert).
Gulf of California.
Clupea thrissina Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 353, Cape San Lucas, Lower California.

718. *Sardinella humeralis* (Cuvier & Valenciennes). *Sardina Escamuda*; *White-bill*; *Pincers*.
West Indies and Gulf of Mexico; Pensacola and Cedar Keys southward.
Harengula humeralis Cuvier & Valenciennes, Hist. Nat. Poiss., xx, 293, 1847,
Rio Janeiro, Bahia, Guadeloupe, and San Domingo.

Subgenus *LILE* Jordan & Evermann.

Lile Jordan & Evermann, Fishes North and Middle America, 431, 1896 (*stolifera*).

719. *Sardinella stolifera* (Jordan & Gilbert).
Gulf of California to Panama.
Clupea stolifera Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 339, Mazatlan.

Genus 212. *OPISTHONEMA* Gill. *Thread Herring*.

Opisthonema Gill, Proc. Ac. Nat. Sci. Phila. 1861, 37 (*thrissa* = *oglinum*).

720. *Opisthonema oglinum* (LeSueur). *Thread Herring*; *Machuelo*; *Sprat*; *Cailleu-Tassart*.
West Indian fauna, ranging regularly north to Florida and Carolina; Longport, New Jersey; Newport, Rhode Island; Fortress Monroe.
Megalops oglina, LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 359, Newport, Rhode Island.

721. *Opisthonema libertatis* (Günther).
Pacific Coast of Mexico and Central America.
Meletta libertatis Günther, Proc. Zool. Soc. Lond. 1866, 603, Libertad, Central America.

Genus 213. *BREVOORTIA* Gill. *The Menhadens*.

Brevoortia Gill, Proc. Ac. Nat. Sci. Phila. 1861, 37 (*menhaden* = *tyrannus*).

722. *Brevoortia tyrannus* (Latrobe). *Menhaden*; *Mossbunker*; *Bony-fish*; *White-fish*; *Bug-fish*; *Fatback*; *Yellow-tail*; *Pogy*.
Nova Scotia to Brazil.
Clupea tyrannus Latrobe, Trans. Amer. Phil. Soc. Phila., v, 1802, 77, pl. 1, Chesapeake Bay.

- 722a. *Brevoortia tyrannus aurea* (Agassiz).
Coast of Brazil.
Clupanodon aureus Agassiz, Spix, Pisc. Brasil., 52, 1828, Brazil.

- 722b. *Brevoortia tyrannus brevicaudata* Goode.
Noank, Connecticut, and south.
Brevoortia tyrannus brevicaudata Goode, Proc. U. S. Nat. Mus. 1878, 34, Noank, Connecticut.

- 722c. *Brevoortia tyrannus patronus* Goode. *Gulf Menhaden*.
Gulf of Mexico.
Brevoortia patronus Goode, Proc. U. S. Nat. Mus., 1, 1878, 39, Brazos Santiago, Texas.

Genus 214. *CHIROCENTRODON* Günther.

Chirocentrodon Günther, Cat., vii, 463, 1868 (*taniatus*).

723. *Chirocentrodon taniatus* Günther.
Jamaica.
Chirocentrodon taniatus Günther, Cat., vii, 463, 1868, Jamaica.

Genus 215. *ILISHA* Gray.

Ilisha Gray, in Richardson, Ichthyol. Chin., in Proc. Brit. Assoc. 1845 (1846), 306 (*abnormis*).

724. *Ilisha flavipinnis* (Valenciennes).
Coast of Surinam and Brazil.
Pristigaster flavipinnis Valenciennes, in D'Orbigny, Voy. Amer. M6r., Poiss., pl. 10, fig. 2, 1839, Buenos Ayres.

725. *Ilisha bleekeri*ana (Poey).
Matanzas, Cuba.
*Pellona bleekeri*ana Poey, Repertorio, II, 242, 1867, Matanzas, Cuba.
726. *Ilisha furthii* (Steindachner).
Panama.
Pellona furthii Steindachner, Ichth. Beitr., I, 14, 1874, Panama.
- Genus 216. **OPISTHOPTERUS** Gill.
Opisthopterus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 31 (*tartoor*).
727. *Opisthopterus lutipinnis* (Jordan & Gilbert).
Pacific Coast of Mexico.
Pristigaster lutipinnis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 310, Mazatlan, Mexico.
728. *Opisthopterus dovii* (Günther).
Panama.
Pristigaster dovii Günther, Cat., VII, 461, 1868, Panama.
729. *Opisthopterus macrops* (Günther).
Panama.
Pristigaster macrops Günther, Proc. Zool. Soc. Lond. 1866, 603, and Cat., VII, 461, 1868, Panama.
- Genus 217. **ODONTOGNATHUS** Lacépède.
Odontognathus Lacépède, Hist. Nat. Poiss., II, 221, 1790 (*mucronatus*).
730. *Odontognathus mucronatum* Lacépède.
Coast of Guiana.
Odontognathus mucronatus Lacépède, Hist. Nat. Poiss., 221, pl. 7, fig. 2, 1799, Cayenne.
731. *Odontognathus panamense* (Steindachner).
Panama.
Pristigaster (Odontognathus) panamensis Steindachner, Ichth. Beitr., V, 24, 1876, Panama.
- Genus 218. **PRISTIGASTER** Cuvier.
Pristigaster Cuvier, Règne Anim., ed. I, 176, 1817 (*cayanus*).
732. *Pristigaster cayanus* Cuvier.
Coast of Guiana and northern Brazil.
Pristigaster cayanus Cuvier, Règne Anim., ed. I, pl. 10, fig. 3, 1817, Cayenne.
- Family LXII. ENGRAULIDIDÆ. The Anchovies.**
- Genus 219. **STOLEPHORUS** Lacépède. *Silvery Anchovies*.
Stolephorus Lacépède, Hist. Nat. Poiss., V, 381, 1803 (*japonica*).
733. *Stolephorus miarchus* Jordan & Gilbert.
Pacific Coast of America from Mazatlan to Panama.
Stolephorus miarchus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 344, Mazatlan, Mexico.
734. *Stolephorus perfasciatus* (Poey). *Grubber Broadhead*.
Florida Keys to Cuba and Jamaica.
Engraulis perfasciatus Poey, Memorias, II, 313, 1860, Cuba.
735. *Stolephorus exiguus* Jordan & Gilbert.
Pacific Coast of Mexico at Mazatlan.
Stolephorus exiguus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 342, Mazatlan.
736. *Stolephorus cubanus* (Poey).
Cuba and Porto Rico.
Engraulis cubanus Poey, Synopsis, 423, 1868, Cuba.

737. *Stolephorus perthecatus* Goode & Bean.
Pensacola, Florida.
Stolephorus perthecatus Goode & Bean, Proc. U. S. Nat. Mus. 1882, 434, Pensacola, Florida.
738. *Stolephorus ischanus* Jordan & Gilbert.
Pacific Coast of America from Mazatlan to Panama.
Stolephorus ischanus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 340, Mazatlan, Mexico.
739. *Stolephorus brownii* (Gmelin). *Striped Anchovy; Manjua; Anchovy Fry*.
Cape Cod to Brazil.
Atherina brownii Gmelin, Syst. Nat., 1397, 1788, Jamaica; after Brown.
740. *Stolephorus cultratus* Gilbert.
Santa Margarita Island, Lower California.
Stolephorus cultratus Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Santa Margarita Island, Lower California.
741. *Stolephorus delicatissimus* (Girard).
San Diego Bay and southward on coast of Lower California.
Engraulis delicatissimus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 154, and Pac. R. R. Surv., x, 335, 1858, San Diego.
742. *Stolephorus chærostomus* (Goode). *Hog-mouth Fry*.
Bermuda Islands; common in Hamilton Harbor.
Engraulis chærostomus Goode, Am. Jour. Sci. Arts, August, 1874, 125, Bermudas.
743. *Stolephorus argyrophanus* (Cuvier & Valenciennes).
Gulf Stream; Woods Hole, Massachusetts.
Engraulis argyrophanus Cuvier & Valenciennes, Hist. Nat. Poiss., XXI, 49, 1848, equatorial Atlantic.
744. *Stolephorus curtus* Jordan & Gilbert.
Mazatlan, Mexico.
Stolephorus curtus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 343, Mazatlan, Mexico.
745. *Stolephorus astilbe* Jordan & Rutter.
West Indies.
Stolephorus astilbe Jordan & Rutter, Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
746. *Stolephorus poeyi* (Kner & Steindachner).
Rio Bayano, near Panama.
Engraulis poeyi Kner & Steindachner, Abh. Bayer Ak. Wiss., x, 1864, 23, with plate, Rio Bayano, near Panama.
747. *Stolephorus robertsi* Jordan & Rutter.
West Indies.
Stolephorus robertsi Jordan & Rutter, Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
748. *Stolephorus opercularis* Jordan & Gilbert.
Gulf of California to Panama.
Stolephorus opercularis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 275, Punta San Felipe, Gulf of California.
749. *Stolephorus mitchilli* (Cuvier & Valenciennes).
Cape Cod to Texas.
Engraulis mitchilli Cuvier & Valenciennes, Hist. Nat. Poiss., XXI, 50, 1848, New York; Carolina; Lake Pontchartrain, Louisiana.
750. *Stolephorus lucidus* Jordan & Gilbert. "*Sardina*."
Mazatlan, Mexico.
Stolephorus lucidus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 341, Mazatlan, Mexico.

- 751. *Stolephorus clupeioides* (Swainson).**
Coast of Guiana and southward.
Engraulis? clupeioides Swainson, Nat. Hist. Fishes, II, 388, 1839, Pernambuco,
Dutch Guiana.
- 752. *Stolephorus compressus* (Girard).**
Point Conception to Lower California.
Engraulis compressus Girard, U. S. Pac. R. R. Surv., x, 336, 1858, San Diego, Cal.
- 753. *Stolephorus panamensis* (Steindachner).**
Panama.
Engraulis panamensis Steindachner, Ichth. Beitr., IV, 39, 1875, Panama.
- 754. *Stolephorus spinifer* (Cuvier & Valenciennes).**
Coast of Guiana; recorded from Panama by Steindachner.
Engraulis spinifer Cuvier & Valenciennes, Hist. Nat. Poiss., XXI, 39, 1848,
Cayenne, French Guiana.
- Genus 220. ENGRAULIS Cuvier. Anchovics.**
Engraulis Cuvier, Règne Animal, ed. 1, 174, 1817 (*enclasicolus*).
- 755. *Engraulis mordax* Girard. California Anchovy.**
Pacific Coast of America from Vancouver Island to Lower California.
Engraulis mordax Girard, Proc. Ac. Nat. Sci. Phila. 1854, 138, and in Pac.
R. R. Surv., x, 334, 1858, Shoalwater (now Willapa) Bay, Washington.
- Genus 221. ANCHOVIA Jordan & Evermann.**
Anchovia Jordan & Evermann, Fishes North and Middle America, 449, 1896
(*macrolepidota*).
- 756. *Anchovia producta* (Poey). Hechudo; Grubber Broadhead.**
Cuba and Jamaica.
Engraulis productus Poey, Repertorio, 380, 1866, Cuba.
- 757. *Anchovia macrolepidota* (Knor & Steindachner). *Sardina Bocona*.**
Gulf of Mexico to Panama.
Engraulis macrolepidotus Knor & Steindachner, Abhandl. Bayer Akad. Wiss.,
x, 1864, 21, pl. 3, fig. 2, Rio Bayano, Panama.
- Genus 222. CETENGRAULIS Günther.**
Cetengraulis Günther, Cat., VII, 383, 1868 (*edentulus*).
- 758. *Cetengraulis mysticetus* (Günther).**
Panama.
Engraulis mysticetus Günther, Proc. Zool. Soc. Lond. 1866, 604, Panama.
- 759. *Cetengraulis edentulus* (Cuvier). Bocon; Tarpong Fry.**
West Indies to Brazil; common in Cuba.
Engraulis edentulus Cuvier, Règne Animal, ed. II, vol. 2, 323, 1829, Jamaica;
after Sloane.
- Genus 223. PTERENGRAULIS Günther.**
Pterengraulis Günther, Cat., VII, 398, 1868 (*atherinoides*).
- 760. *Pterengraulis atherinoides* (Linnaeus).**
Coasts of Guiana and Brazil.
Clupea atherinoides Linnaeus, Syst. Nat., ed. XII, 523, 1766, Surinam.
- Genus 224. LYCENGRAULIS Günther.**
Lycengraulis Günther, Cat., VII, 399, 1868 (*grossidens*).
- 761. *Lycengraulis grossidens* (Cuvier).**
Coasts of Guiana and Brazil.
Engraulis grossidens Cuvier, in Agassiz, Spix, Pisc. Brasil., 50, 1828, Rio
Janeiro.

Family LXIII. ALEPOCEPHALIDÆ.

Genus 225. ALEPOCEPHALUS Risso.

Alepocephalus Risso, Mem. Ac. Nat. Sci. Turin, xxv, 270, 1820 (*rostratus*).

762. *Alepocephalus productus* Gill.

Gulf Stream.

Alepocephalus productus Gill, Proc. U. S. Nat. Mus. 1883, 256, Gulf Stream, at Albatross Station 2035, in 1,362 fathoms.

763. *Alepocephalus agassizii* Goode & Bean.

Gulf Stream.

Alepocephalus agassizii Goode & Bean, Bull. Mus. Comp. Zool., No. 5, vol. x, 215, 1882, Gulf Stream, at latitude 30°, in 922 fathoms.

764. *Alepocephalus tenebrosus* Gilbert.

Santa Barbara Channel, California.

Alepocephalus tenebrosus Gilbert, Proc. U. S. Nat. Mus. 1891, 545, Santa Barbara Channel, California, at Albatross Stations 2839, 2923, and others, in 359 to 822 fathoms.

Genus 226. MITCHILLINA Jordan & Evermann.

Mitchillina Jordan & Evermann, Fishes North and Middle America, 453, 1896 (*bairdii*).

765. *Mitchillina bairdii* (Goode & Bean).

Grand Banks of Newfoundland.

Alepocephalus bairdii Goode & Bean, Proc. U. S. Nat. Mus. 1879, 55, Grand Banks of Newfoundland.

Genus 227. BATHYTROCTES Günther.

Bathytroctes Günther, Ann. Mag. Nat. Hist. 1878, 249 (*microlepis*).

766. *Bathytroctes stomias* Gilbert.

Coast of Oregon.

Bathytroctes stomias Gilbert, Proc. U. S. Nat. Mus. 1890, 53, coast of Oregon, at Albatross Station 3074, in 877 fathoms.

Genus 228. TALISMANIA Goode & Bean.

Talismania Goode & Bean, Oceanic Ichthyology, 41, 1896 (*homopterus*).

767. *Talismania antillarum* Goode & Bean.

Caribbean Sea.

Talismania antillarum Goode & Bean, Oceanic Ichthyology, 44, fig. 49, 1896, Albatross Station 2394, in Caribbean Sea, latitude 28° 38' 30" N., longitude 87° 2' W., in 420 fathoms.

768. *Talismania æquatoris* Goode & Bean.

Coast of Ecuador.

Talismania æquatoris Goode & Bean, Oceanic Ichthyology, 44, fig. 50, 1896, Albatross Station 2793, latitude 1° 3' N., longitude 80° 15' W., off coast of Ecuador, in 741 fathoms.

Genus 229. CONOCARA Goode & Bean.

Conocara Goode & Bean, Oceanic Ichthyology, 39, 1896 (*macdonaldi*).

769. *Conocara macdonaldi* Goode & Bean.

Gulf of Mexico, 24° 36' N., 84° 5' W.; 24° 36' N., 84° 5' W.; 28° 47' 30" N., 87° 27' W.

Conocara macdonaldi Goode & Bean, Oceanic Ichthyology, 39, fig. 48, 1896, Gulf of Mexico.

770. *Conocara macroptera* (Vaillant).

Morocco to Soudan, Banc d'Arguin, and the Canaries; latitude 16° 57' N., longitude 63° 12' W.

Alepocephalus macropterus Vaillant, Expéd. Sci. Travailleur et Talisman, Poissons, 150, pl. 11, figs. 2a, 2b, 2c, 1888, coast of Morocco, Soudan, and Canaries.

Genus 230. **PLATYTROCTES** Günther.

Platytrectes Günther, Ann. Mag. Nat. Hist., 11, 1878, 249 (*apus*).

771. **Platytrectes apus** Günther.

Mid-Atlantic and the Arabian Sea.

Platytrectes apus Günther, Ann. Mag. Nat. Hist., 11, 1878, 249, mid-Atlantic.

Genus 231. **ALEPOSOMUS** Gill.

Aleposomus Gill, Am. Nat., XVIII, 1884, 433 (*copei*).

772. **Aleposomus copei** Gill.

Gulf Stream.

Aleposomus copei Gill, Am. Nat., XVIII, 1884, 433, Gulf Stream, latitude 37° 12' 20" N., longitude 69° 39' W.

Family LXIV. SALMONIDÆ. The Salmon Family.

Genus 232. **COREGONUS** (Artedi) Linnæus. *Whitefishes*.

Coregonus (Artedi) Linnæus, Syst. Nat., ed. x, 310, 1758 (*lavaretus*).

Subgenus PROSOPIUM Milner.

Prosopium Milner, in Jordan, Man. Vert., ed. 2, 361, 1878 (*quadrilateralis*).

773. **Coregonus coulterii** Eigenmann & Eigenmann.

Headwaters of Columbia River in British Columbia.

Coregonus coulterii Eigenmann & Eigenmann, Am. Nat., November, 1892, 961, Kicking Horse River, at Field, British Columbia.

774. **Coregonus williamsoni** Girard. *Rocky Mountain Whitefish; Williamson's Whitefish; "Mountain Herring."*

Rocky Mountains to the Pacific, especially in the Columbia Basin and the headwaters of the Colorado; Chief Mountain Lake at the head of the Saskatchewan in Montana.

Coregonus williamsoni Girard, Proc. Ac. Nat. Sci. Phila. 1856, 136, Des Chutes River, Oregon.

774a. **Coregonus williamsoni cismontanus** Jordan.

Madison and Yellowstone rivers and other tributaries of the upper Missouri. *Coregonus williamsoni cismontanus* Jordan, Bull. U. S. Fish Com., ix, 1889, 49, pl. 9, figs. 8 and 9, Horsethief Creek, a tributary of Madison River, Montana.

775. **Coregonus kennicotti** Milner. *Broad Whitefish; Muksun of the Russians.*

Great Bear Lake; Mackenzie and Yukon rivers.

Coregonus kennicotti Milner, in Jordan & Gilbert, Synopsis, 298, 1883, Fort Good Hope, British America.

776. **Coregonus richardsonii** Günther.

Arctic North America.

Coregonus richardsonii Günther, Cat., VI, 185, 1866, Arctic North America; exact locality unknown.

777. **Coregonus quadrilateralis** Richardson. *Pilot-fish; Menominee Whitefish; Shadwailer; Round Whitefish.*

Lakes of New Hampshire, upper Great Lakes, northwestward to Alaska, as far south as Yukon River.

Coregonus quadrilateralis Richardson, Franklin's Jour. 1823, 714, Fort Enterprise, British America.

Subgenus COREGONUS (Artedi) Linnæus.

778. **Coregonus clupeiformis** (Mitchill). *Common Whitefish.*

Great Lakes and neighboring waters

Salmo clupeiformis Mitchill, Am. Month. Mag., 11, 1818, 321, Sault Ste. Marie.

779. **Coregonus nelsonii** Bean. *Humpback Whitefish.*

Alaska, from Bristol Bay northward.

Coregonus nelsonii Bean, Proc. U. S. Nat. Mus. 1884, 48, Nulato, Alaska.

780. *Coregonus labradoricus* Richardson. *Labrador Whitefish; Sault Whitefish; Shadwailer; Musquaw River Whitefish; Whiting of Lake Winnipischoege.*
Great Lakes region to the lakes of the Adirondacks and White Mountains, and northwest to Winnipeg.
Coregonus labradoricus Richardson, Fauna Bor.-Amer., III, 206, 1836, Musquaw River, Labrador.
- Genus 233. ARGYROSOMUS Agassiz. *The Lake Herrings.*
Argyrosomus Agassiz, Lake Superior, 339, 1850 (*clupeiformis* = *artedi*).
- Subgenus ARGYROSOMUS Agassiz.
781. *Argyrosomus osmeriformis* (H. M. Smith). *Smelt of the New York lakes.*
Lakes of central New York; known from Seneca and Skaneateles lakes.
Coregonus osmeriformis Hugh M. Smith, Bull. U. S. Fish Com., XIV, 1894, pl. 1, 2, Seneca Lake; Skaneateles Lake.
782. *Argyrosomus artedi* (LeSueur). *Cisco; Lake Herring; Michigan Herring.*
Great Lakes and neighboring waters, and northward into Labrador.
Coregonus artedi LeSueur, Jour. Ac. Nat. Sci. Phila., I, 1818, 231, Lake Erie; Niagara River.
- 782a. *Argyrosomus artedi cisco* Jordan.
Small lakes of Wisconsin and northern Indiana.
Argyrosomus cisco Jordan, Am. Nat. 1875, 136, Lake Tippecanoe, Warsaw, Ind.
783. *Argyrosomus hoyi* Gill. *Moon-eye Cisco; Cisco of Lake Michigan; Kieye of Lake Michigan.*
Deep waters of Lake Michigan.
Argyrosomus hoyi Gill, in Jordan, Am. Nat., March, 1875, 135, Lake Michigan, near Racine, Wisconsin.
784. *Argyrosomus pusillus* (Bean).
Yukon River to Bering Sea and northward.
Coregonus pusillus Bean, Proc. U. S. Nat. Mus. 1888, 526, Kuwuk River, Alaska.
785. *Argyrosomus lucidus* (Richardson). *Great Bear Lake Herring.*
Mackenzie River and tributaries; Great Bear Lake River.
Salmo (Coregonus) lucidus Richardson, Fauna Bor.-Amer., III, 207, 1836, with good figure, Great Bear Lake.
786. *Argyrosomus laurettæ* (Bean).
Alaska, from Yukon River northward to Point Barrow.
Coregonus lauretta Bean, Proc. U. S. Nat. Mus. 1881, 156, Point Barrow, Alaska.
787. *Argyrosomus prognathus* (H. M. Smith). *Long-jaw; Bloater.*
Lake Ontario, Lake Michigan, Lake Superior, and doubtless the entire Great Lake basin.
Coregonus prognathus Hugh M. Smith, Bull. U. S. Fish Com., XIV, 1894, 4, pl. 1, fig. 3, Lake Ontario, at Wilson, N. Y.
788. *Argyrosomus nigripinnis* Gill. *Blue-fn; Black-fn.*
Deep waters of Lake Michigan and small lakes of Wisconsin and Minnesota.
Argyrosomus nigripinnis Gill, in Milner, Rept. U. S. Fish. Com. 1872-73 (1874), 87, Lake Michigan, off Racine, Wisconsin.
- Subgenus ALLOSOMUS Jordan.
Allosomus Jordan, Man. Vert., ed. 2, 361, 1878 (*tullibee*).
789. *Argyrosomus tullibee* (Richardson). *Tullibee; Mongrel Whitefish.*
Great Lakes, Lake of the Woods, and northward.
Salmo (Coregonus) tullibee Richardson, Fauna Bor.-Amer., III, 201, 1836, Cumberland House, Pine Island Lake.
- 789a. *Argyrosomus tullibee bisselli* (Bollman).
Rawson Lake and Howard Lake, Michigan.
Coregonus tullibee bisselli Bollman, Rept. U. S. Fish Com., VIII, 1888, 223, Rawson and Howard lakes, Michigan.

Genus 234. *STENODUS* Richardson. *Inconnu*.

Stenodus Richardson, Back's Narrative Arctic Land Expedition, 521, 1836
(*mackenzii*).

790. *Stenodus mackenzii* (Richardson). *Inconnu*.

Delta of Mackenzie River.

Salmo mackenzii Richardson, Franklin's Jour. 1823, 707, Mackenzie River.

Genus 235. *ONCORHYNCHUS* Suckley. *The Pacific Salmons*.

Oncorhynchus Suckley, Ann. Lyc. Nat. Hist. N. Y. 1861, 312 (*scouleri* = *gorbuscha*).

Subgenus *ONCORHYNCHUS* Suckley.791. *Oncorhynchus gorbuscha* (Walbaum). *Humpback Salmon; Haddo; Holia; Gorbuscha; Dog Salmon of Alaska*.

Pacific Coast and rivers of North America and Asia from Oregon northward.
Salmo gorbuscha Walbaum, Artedi Pisc., 69, 1792, Kamchatka; after the
Gorbuscha of Pennant and Krasheninnikof.

792. *Oncorhynchus keta* (Walbaum). *Dog Salmon; Hay-ko; Le Kai Salmon*.

San Francisco to Kamchatka; abundant in Bering Straits.

Salmo keta vel *Kayko* Walbaum, Artedi Pisc., 72, 1792, rivers of Kamchatka;
after the *Keta* or *Kayko* of Pennant and Krasheninnikof.

793. *Oncorhynchus tshawytscha* (Walbaum). *Quinnat Salmon; Chinook Salmon; Tschavitsche; King Salmon; Columbia Salmon; Sacramento Salmon; Tye Salmon; Saw-kwey; Chouicha or Tschawytscha*.

Alaska, Oregon, and California, southward to Ventura River and to northern
China.

Salmo tshawytscha Walbaum, Artedi Pisc., 71, 1792, rivers of Kamchatka;
after the *Tschawytscha* of Krasheninnikof, Hist. Kamchatka, 178, 1764, and
the *Tschawytscha* of Pennant, 1792.

794. *Oncorhynchus kisutch* (Walbaum). *Silver Salmon; Kisutch; Skowitz; Hoopid Salmon; Coho Salmon; Bielaya Ryba; Quisutch*.

From San Francisco northward, especially in Puget Sound and the Alaskan
fjords; south on the Asiatic coast to Japan.

Salmo kisutch Walbaum, Artedi Pisc., 70, 1792, rivers and lakes of Kamchatka;
after the *Kisutch* of Pennant.

Subgenus *HYPISIFARIO* Gill.

Hypsifario Gill, Proc. Ac. Nat. Sci. Phila. 1862, 330 (*kennerlyi* = *nerka*).

795. *Oncorhynchus nerka* (Walbaum). *Blueback Salmon; Redfish; Fraser River Salmon; Saw-qui, Sockeye, or Sauk-eye Salmon; Krasnaya Ryba*.

Klamath River and Rogue River to northern Alaska, Kamchatka, and Japan.

Salmo nerka Walbaum, Artedi, Pisc., 71, 1792, rivers and seas of Kamchatka;
after the *Nerka* of Pennant, the *Narka* of Krasheninnikof.

Genus 236. *SALMO* (Artedi) Linnæus. *Salmons and Trouts*.

Salmo (Artedi, Gen. Piscium) Linnæus, Syst. Nat., ed. x, 308, 1758 (*salar*, etc.).

Subgenus *SALMO* (Artedi) Linnæus.796. *Salmo salar* Linnæus. *Common Atlantic Salmon*.

North Atlantic, ascending all suitable rivers in northern Europe and region
north of Cape Cod to Hudson Bay; formerly abundant in the Hudson and
occasional in the Delaware, its northern limit in the Churchill, Albany,
and Moose rivers, flowing into Hudson Bay.

Salmo salar Linnæus, Syst. Nat., ed. x, 308, 1758, seas of Europe.

796a. *Salmo salar sebago* Girard. *Landlocked Salmon*.

Lakes of Maine, New Hampshire, and New Brunswick.

Salmo sebago Girard, Proc. Ac. Nat. Sci. Phila. 1853, 380, Sebago Pond, N. H.

796b. *Salmo salar ouananiche* McCarthy. *Ouananiche; Wannanische; Winninisch*.

Lake St. John, Saguenay River, and northward.

Salmo salar ouananiche Eugene McCarthy, in Jordan & Evermann, Fishes
North and Middle America, 487, 1896, Saguenay River, Canada.

Subgenus TRUTTA Linnaeus.

Trutta Linnaeus, Syst. Nat., ed. x, 308, 1758 (*trutta*, etc.: "*Trutta corpore variegato*").

797. *Salmo mykiss* Walbaum. *Cut-throat Trout*; *Mykiss*.
Lower Columbia to British America, Alaska, and Kamchatka.
Salmo mykiss Walbaum, Artedi Pisc., 59, 1792, Kamchatka; based on *Mykiss* of Pennant.
- 797a. *Salmo mykiss clarkii* (Richardson). *Columbia River Trout*.
Puget Sound to Elk River, Humboldt County, California.
Salmo clarkii Richardson, Fauna Bor.-Amer., III, 225, 1836, Cathlapootl River.
- 797b. *Salmo mykiss lewisi* (Girard). *Yellowstone Trout*; *Cut-throat Trout*.
Snake River basin above the Shoshone Falls, through Two-Ocean Pass to the headwaters of the Yellowstone and other affluents of the upper Missouri; Yellowstone Lake.
Salar lewisi Girard, Proc. Ac. Nat. Sci. Phila. 1856, 219, Falls of Missouri River.
- 797c. *Salmo mykiss gibbsii* (Suckley).
Middle Columbia River basin.
Salmo gibbsii Suckley, Ann. Lyc. Nat. Hist. N.Y., VII, 1858, 1, Fort Dalles, Oregon.
- 797d. *Salmo mykiss henshawi* (Gill & Jordan). *Lake Tahoe Trout*; *Silver Trout*; *Truckee Trout*.
Basin of the post-Tertiary Lake Lahontan; Lake Tahoe, Pyramid Lake, Webber Lake, Donner Lake, Independence Lake, Truckee River, Humboldt River, Carson River, and most streams of the eastern slope of the Sierra Nevada; also the headwaters of Feather River, west of the Sierra Nevada, probably introduced from Nevada.
Salmo henshawi Gill & Jordan, in Jordan, Man. Vert., ed. 2, 358, 1878, Lake Tahoe.
- 797e. *Salmo mykiss virginialis* (Girard). *Trout of Utah Lake*.
Lakes and streams west of the Wasatch range, especially in Bear, Provo, Jordan, and Sevier rivers, and in Utah Lake.
Salar virginialis Girard, Proc. Ac. Nat. Sci. Phila. 1856, 220, Utah Lake.
- 797f. *Salmo mykiss spilurus* (Cope). *Rio Grande Trout*.
Upper Rio Grande and southward into the mountains of Chihuahua.
Salmo spilurus Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 470, Sangre de Cristo Pass, Colorado.
- 797g. *Salmo mykiss pleuriticus* (Cope). *Colorado River Trout*.
Colorado River basin.
Salmo pleuriticus Cope, Hayden's Geol. Surv. Mont. for 1871 (1872), 471, headwaters of Green River, Wyoming.
- 797h. *Salmo mykiss bouvieri* (Bendire). *Waha Lake Trout*.
Waha Lake, Washington.
Salmo purpuratus bouvieri Bendire, in Jordan & Gilbert, Synopsis, 315, 1883, Waha Lake, Washington.
- 797i. *Salmo mykiss stomias* (Cope). *Greenback Trout*.
Headwaters of Arkansas and Platte rivers.
Salmo stomias Cope, Hayden's Geol. Surv. Wyo. for 1870 (1871), 433, South Platte River, locality unknown.
- 797j. *Salmo mykiss macdonaldi* Jordan & Evermann. *Yellow-fin Trout*.
Twin Lakes, tributary to the Arkansas River, near Leadville, Colorado.
Salmo mykiss macdonaldi Jordan & Evermann, Proc. U. S. Nat. Mus. 1889 (1890), 453, Twin Lakes, Colorado.
798. *Salmo gairdneri* Richardson. *Steelhead*; *Hardhead*; "*Salmon Trout*."
Coastwise streams from Santa Ynez Mountains, Santa Barbara County, northward to British Columbia, west of the Sierra Nevada and Cascade Range; especially abundant in the lower Columbia, ascending Snake River as far as Anger Falls and headwaters of Salmon River, Idaho.
Salmo gairdneri Richardson, Fauna Bor.-Amer., III, 221, 1836, Columbia River at Fort Vancouver, Washington.

- 798a. *Salmo gairdneri kamloops* (Jordan). *Kamloops Trout; Stit-tse.*
Kamloops Lake, Okanogan Lake, Kootenai Lake, and other lakes tributary to Fraser River or to the upper Columbia.
Oncorhynchus kamloops Jordan, Forest and Stream, XXXIX, No. 19, November 10, 1892, 405, Kamloops Lake, British Columbia.
- 798b. *Salmo gairdneri crescentis* Jordan & Beardslee. *Speckled Trout of Crescent Lake.*
Crescent Lake, Clallam County, Washington.
Salmo gairdneri crescentis Jordan & Beardslee, Proc. Cal. Ac. Sci. 1896, 207, pl. 22, Crescent Lake, Clallam County, Washington.
- 798c. *Salmo gairdneri beardsleei* Jordan & Seale. *Blueback Trout of Crescent Lake.*
Crescent Lake, Clallam County, Washington.
Salmo gairdneri beardsleei Jordan & Seale, Proc. Cal. Ac. Sci. 1896, 209, pl. 23, Crescent Lake, Clallam County, Washington.
799. *Salmo irideus* (Gibbons). *Rainbow Trout; Coast Range Trout.*
Mountain streams from the coast of Washington southward to San Diego County, California.
Salmo irideus Gibbons, Proc. Cal. Ac. Nat. Sci. 1855, 36, San Leandro Creek, Alameda County, California.
- 799a. *Salmo irideus masoni* (Suckley). *Brook Trout of western Oregon.*
Puget Sound to southern Oregon, in streams of the Coast Range.
Salmo masoni Suckley, Pac. R. R. Surv., XII, part 2, 345, 1860, Cathlamoot River.
- 799b. *Salmo irideus shasta* (Jordan). *McCloud River Rainbow Trout.*
Streams of the Sierra Nevada from Mount Shasta southward; known from McCloud River, the limits of its range not well known. Introduced into the Truckee River and many eastern streams.
Salmo gairdneri shasta Jordan, 13th Bien. Rept. Fish Com. California, 1894, 142, with plate, McCloud River at Baird, Shasta County, California.
- 799c. *Salmo irideus gilberti* (Jordan). *Kern River Trout.*
Kern River, California.
Salmo gairdneri gilberti Jordan, 13th Bien. Rept. Fish Com. California, 1894, 143, with plate, South Fork of Kern River at Soda Springs, California.
- 799d. *Salmo irideus stoneri* (Jordan). *Nissuee Trout; No-shee Trout.*
McCloud River and upper Sacramento River.
Salmo gairdneri stoneri Jordan, 13th Bien. Rept. Fish Com. California, 1894, 142, with plate, McCloud River at Baird, California.
- 799e. *Salmo irideus aqua-bonita* (Jordan). *Golden Trout of Mount Whitney.*
Mountain streams on the west side of Mount Whitney, tributary to Kern River, Volcano Creek, and South Fork of Kern River; also Owens Lake.
Salmo mykiss aqua-bonita Jordan, Proc. U. S. Nat. Mus. 1892, 481, Volcano or Whitney Creek, California.
- Genus 237. **CRISTIVOMER** Gill & Jordan. *Great Lakes Trout.*
Cristivomer Gill & Jordan, in Jordan, Man. Vert. E. U. S., ed. 2, 356, 1878 (*namaycush*).
800. **Cristivomer namaycush** (Walbaum). *Great Lakes Trout; Mackinaw Trout; Longe* (Vermont); *Togue* (Maine); *Namaycush*; *Masamacush.*
Great Lakes region and lakes of northern New York, New Hampshire, and Maine, headwaters of Columbia and Fraser rivers, streams of Vancouver Island, and north to the Arctic Circle.
Salmo namaycush Walbaum, Artdi Pisc., 68, 1792, Hudson Bay; based on the *Namaycush salmon* of Pennant.
- 800a. **Cristivomer namaycush siscowet** (Agassiz). *Siscowet.*
Lake Superior.
Salmo siscowet Agassiz, Lake Superior, 333, 1850, Lake Superior.

Genus 238. **SALVELINUS** (Nilsson). *Charrs*.
Salvelinus Nilsson, Prodr. Scand., 7, 1832 (*alpinus*).

801. **Salvelinus fontinalis** (Mitchill). *Brook Trout*; *Speckled Trout*.
 Maine to the Saskatchewan and northward to Labrador, southward in the Alleghanies to headwaters of the Savannah, Chattahoochee, Catawba, and French Broad rivers.
Salmo fontinalis Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, 435, near New York City.
- 801a. **Salvelinus fontinalis agassizii** (Garman). *Dublin Pond Trout*.
 New Hampshire.
Salmo agassizii (Garman, 19th Rept. Mass. Fish Com. 1885, 20, Dublin Pond (Lake Monadnock), Keene, N. H.; Center Pond, New Hampshire.
802. **Salvelinus malma** (Walbaum). *Dolly Varden Trout*; *Oregon Charr*; *Bull Trout*; *Red-spotted Trout*; *Malma*; *Golet*.
 Streams west of the Cascade Range, from the upper Sacramento to Montana, Alaska, and Kamchatka; in the Columbia basin as far up as Montana and Idaho.
Salmo malma Walbaum, Artedi Pisc., 66, 1792, Bering Sea; based on *Malma* of Pennant.
803. **Salvelinus alpinus** (Linnaeus). *European Charr*; *Sälbling*; *Saibling*; *Ombre Chevalier*; *Greenland Charr*.
 Central and northern Europe and northeastern America.
Salmo alpinus Linnaeus, Syst. Nat., ed. x, 309, 1758, Lapland, West Gothland, etc.
- 803a. **Salvelinus alpinus alipes** (Richardson). *Long-finned Charr*.
 Lakes of Greenland and Boothia Felix.
Salmo alipes Richardson, Nat. Hist. App. Ross's Voy., LVII, and Fauna Bor.-Amer., III, 169, 1836, lakes about Regent Inlet; Boothia Felix.
- 803b. **Salvelinus alpinus stagnalis** (Fabricius). *Greenland Charr*.
 Waters of Greenland, Boothia, and neighboring regions.
Salmo stagnalis Fabricius, Fauna Grœnlandica, 173, 1780, alpine ponds of Greenland; not migratory.
- 803c. **Salvelinus alpinus arcturus** (Günther).
 Victoria Lake and Fløberg Beach, Arctic America, latitude 82° 34'.
Salmo arcturus Günther, Proc. Zool. Soc. Lond. 1877, 294, pl. 5, Victoria Lake and Fløberg Beach, Arctic America.
- 803d. **Salvelinus alpinus aureolus** (Bean). *Golden Trout of Sunapee Lake*.
 Sunapee Lake, New Hampshire; Dan Hole Pond, Carroll County, New Hampshire, tributary to Saco River; and Floods Pond, Ellsworth, Maine, tributary to Union River.
Salvelinus aureolus Bean, Proc. U. S. Nat. Mus. 1887, 628, Sunapee Lake, New Hampshire.
804. **Salvelinus oquassa** (Girard). *Oquassa Trout*; *Blueback Trout*; *Quasky*.
 Rangeley Lakes, western Maine.
Salmo oquassa Girard, Proc. Ac. Nat. Sci. Phila. 1854, 262, Oquassa Lake, Maine.
- 804a. **Salvelinus oquassa naresi** (Günther).
 Lakes of Arctic America, Discovery Bay, and Cumberland Gulf.
Salmo naresi Günther, Proc. Zool. Soc. Lond. 1877, 476, plate, fresh-water lakes near Discovery Bay.
- 804b. **Salvelinus oquassa marstoni** (Garman). *Lac de Marbre Trout*.
 Lac de Marbre, Ottawa County, Province of Quebec, Canada.
Salmo marstoni Garman, Science, July 14, 1893, 23, Lac de Marbre, Ottawa County, Quebec.

Family LXV. THYMALLIDÆ. The Graylings.

Genus 239. THYMALLUS Cuvier.

Thymallus Cuvier, Règne Anim., ed. 2, II, 306, 1829 (*thymallus*), (not *Thymalus* Latreille, 1802, a genus of *Coleoptera*).

805. *Thymallus signifer* (Richardson). Arctic Grayling; Poisson Bleu.

Mackenzie River to Alaska and the Arctic Ocean.

Coregonus signifer Richardson, Franklin's Jour. 1823, 711, Winter Lake near Fort Enterprise, British America.

806. *Thymallus ontariensis* Cuvier & Valenciennes. Michigan Grayling.

Streams of northern Michigan; formerly abundant in Au Sable River, Jordan River, and other streams in the southern peninsula; Otter Creek, near Keweenaw, in the northern peninsula.

Thymallus ontariensis Cuvier & Valenciennes, Hist. Nat. Poiss., XXI, 452, 1848, said to have been brought by Milbert from Lake Ontario.

806a. *Thymallus ontariensis montanus* Milner. Montana Grayling.

Madison and Gallatin rivers, Montana.

Thymallus montanus Milner, Rept. U. S. Fish Com. 1872-73 (1874), 741, tributary of Missouri River at Camp Baker, Montana.

Family LXVI. ARGENTINIDÆ. The Smelts.

Genus 240. MALLOTUS Cuvier. Capelins.

Mallotus Cuvier, Règne Anim., ed. 2, II, 305, 1829 (*villosa*).

807. *Mallotus villosus* (Müller). Capelin; Lodde.

Arctic America, south to Cape Cod and Alaska; Kamchatka.

Clupea villosa Müller, Prodr. Zool. Dan., 245, 1777, Greenland.

Genus 241. THALEICHTHYS Girard. Eulachon.

Thaleichthys Girard, U. S. Pac. R. R. Surv., Fishes, 325, 1858 (*stevensi* = *pacificus*).

808. *Thaleichthys pacificus* (Richardson). Eulachon; Candle-fish; Oolachan.

Oregon to Alaska.

Salmo (Mallotus) pacificus Richardson, Fauna Bor.-Amer., III, 226, 1836, Columbia River.

Genus 242. OSMERUS (Artedi) Linnæus.

Osmerus (Artedi) Linnæus, Syst. Nat., ed. x, 310, 1758 (*eperlanus*).

Subgenus SPIRINCHUS Jordan & Evermann.

Spirinchus Jordan & Evermann, Fishes North and Middle America, 522, 1896 (*thaleichthys*).

809. *Osmerus thaleichthys* Ayres.

Pacific Coast from San Francisco northward to Bristol Bay in Alaska.

Osmerus thaleichthys Ayres, Proc. Cal. Ac. Sci. 1860, 62, San Francisco.

810. *Osmerus attenuatus* Lockington.

California from San Francisco northward.

Osmerus attenuatus Lockington, Proc. U. S. Nat. Mus. 1880, 66, San Francisco.

Subgenus OSMERUS (Artedi) Linnæus.

811. *Osmerus mordax* (Mitchill). American Smelt; Ice-fish.

Atlantic Coast of United States from Virginia northward to Gulf of St. Lawrence; Lakes Champlain and Memphronagog.

Atherina mordax Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 446, New York.

811a. *Osmerus mordax spectrum* (Cope). Wilton Smelt.

Landlocked in Wilton Pond, Kennebec County, Maine.

Osmerus spectrum Cope, Proc. Am. Phil. Soc. Phila. 1870, 490, Wilton Pond, Kennebec County, Maine.

- 811b. *Osmerus mordax abbotti* (Cope). *Cobessicotic Smelt*.
Landlocked in Cobessicotic Lake, Kennebec County, Maine.
Osmerus abbotti Cope, Proc. Am. Phil. Soc. Phila. 1870, 490, Cobessicotic Lake, Maine.
812. *Osmerus dentex* Steindachner. *Rainbow Herring*.
Coast of Alaska and south on the Pacific Coast to northern China.
Osmerus dentex Steindachner, Sitzungsab. Kais. Akad. Wiss. Wien, LXI, 1870, 429, northern China.
- Genus 243. **HYPOMESUS** Gill. *Surf Smelts*.
Hypomesus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 168 (*pretiosus*).
813. *Hypomesus pretiosus* (Girard). *Surf Smelt*.
Coast of California and Oregon, from Monterey northward.
Argentina pretiosa Girard, Proc. Ac. Nat. Sci. Phila. 1854, 155, San Francisco.
814. *Hypomesus olidus* (Pallas). *Pond Smelt*.
Alaska and Kamchatka.
Salmo (Osmerus) olidus Pallas, Zoogr. Rosso-Asiat., III, 391, 1811, lakes and rivers of Kamchatka.
- Genus 244. **ARGENTINA** (Artedi) Linnæus. *Argentines*.
Argentina (Artedi) Linnæus, Syst. Nat., ed. x, 315, 1758 (*ephyrana*).
815. *Argentina silus* Ascanius.
Northern Europe; occasionally taken on the Grand Banks and off the coast of Maine.
Argentina silus Ascanius, Icon. Rev. Nat., pl. 3, 3, 24, 1763, Norway.
816. *Argentina sialis* Gilbert.
Coast of California.
Argentina sialis Gilbert, Proc. U. S. Nat. Mus. 1890, 56, coast of California at Albatross Station 3017, in 58 fathoms.
817. *Argentina striata* Goode & Bean.
Gulf of Mexico.
Argentina striata Goode & Bean, Oceanic Ichthyology, 52, fig. 62, 1896, Gulf of Mexico, in latitude 28° 36' N., longitude 85° 33' 30" W.
- Genus 245. **LEUROGLOSSUS** Gilbert.
Leuroglossus Gilbert, Proc. U. S. Nat. Mus. 1890, 57 (*stilbius*).
818. *Leuroglossus stilbius* Gilbert.
Coast of California.
Leuroglossus stilbius Gilbert, Proc. U. S. Nat. Mus. 1890, 57, Coast of California at Albatross Stations 2997 and 2998, in 221 and 40 fathoms.
- Family LXVII. MICROSTOMIDÆ.**
- Genus 246. **NANSENIA** Jordan & Evermann.
Nansenia Jordan & Evermann, Fishes North and Middle America, 528, 1896 (*grœnlandica*).
819. *Nansenia grœnlandica* (Reinhardt).
Greenland.
Microstomus grœnlandicus Reinhardt, Vidensk. Selsk. Naturv. Math. Afhandl., VIII, 1841, LXXIV, Greenland.
- Genus 247. **BATHYLAGUS** Günther.
Bathylagus Günther, Ann. Mag. Nat. Hist., II, 1878, 248 (*atlanticus*).
820. *Bathylagus benedicti* Goode & Bean.
Gulf Stream.
Bathylagus benedicti Goode & Bean, Oceanic Ichthyology, 55, fig. 64, 1896, Gulf Stream, at Albatross Stations 2094, 2711, and 2572.

821. *Bathylagus euryops* Goode & Bean.

Gulf Stream.

Bathylagus euryops Goode & Bean, Oceanic Ichthyology, 55, fig. 63, 1896, Gulf Stream, in about latitude 40° N., and longitude 70° W.822. *Bathylagus pacificus* Gilbert.

Coast of Washington, in deep water.

Bathylagus pacificus Gilbert, Proc. U. S. Nat. Mus. 1890, 55, off Washington, at Albatross Stations 3071 and 3074, in 685 and 877 fathoms.823. *Bathylagus borealis* Gilbert.

Coast of Alaska, in deep water.

Bathylagus borealis Gilbert, Proc. Rept. U. S. Fish Com. 1893 (1896), 492, north of Aleutian Island at Albatross Station 3027, in 322 fathoms.

Order T. INIOMI. The Lantern-Fishes.

Family LXVIII. SYNODONTIDÆ. The Lizard-Fishes.

Genus 248. TRACHINOCEPHALUS Gill.

Trachinocephalus Gill, Cat. Fish. East Coast N. Amer., 53, 1861 (*myops*).824. *Trachinocephalus myops* (Forster). *Ground Sparring; Lagarto.*

Tropical parts of the western Atlantic, West Indies, and Brazil, and ranging on our Atlantic Coast to South Carolina.

Salmo myops Forster, in Bloch & Schneider, Syst. Ichth., 421, 1801, St. Helena.Genus 249. SYNODUS (Gronow) Bloch & Schneider. *Lizard-fishes.**Synodus* (Gronow) Bloch & Schneider, Syst. Ichth., 396, 1801 (*synodus*).825. *Synodus intermedius* (Agassiz). *Sand-diver.*

Coast of southern Florida to Brazil.

Saurus intermedius Agassiz, Spix, Fisch. Brasil., 81, 1828, Brazil.826. *Synodus evermanni* Jordan & Bollman.

Mazatlan to coast of Colombia.

Synodus evermanni Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 152, Pacific Ocean off coast of Colombia, at Albatross Stations 2795 and 2797, in 33 fathoms.827. *Synodus poeyi* Jordan.

Cuba.

Synodus poeyi Jordan, Proc. U. S. Nat. Mus. 1886, 526, Havana, Cuba.828. *Synodus synodus* (Linnaeus).

Bahia, Brazil.

Esox synodus Linnaeus, Syst. Nat., ed. XII, 516, 1766, America; based on *Synodus* of Gronow.829. *Synodus lacertinus* Gilbert.

Acapulco, Mexico.

Synodus lacertinus Gilbert, Proc. U. S. Nat. Mus. 1890, 55, Acapulco, Mexico.830. *Synodus saurus* (Linnaeus). *Tiru; Tanutola; Lucerto.*

Coast of southern Europe and neighboring islands; Bermudas.

Salmo saurus Linnaeus, Syst. Nat., ed. XII, 511, 1766, Mediterranean; after Artedi.831. *Synodus scituliceps* Jordan & Gilbert.

Pacific Coast of America from Cape San Lucas to Panama.

Synodus scituliceps Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 344, Mazatlan, Mexico.

832. *Synodus jenkinsi* Jordan & Bollman.
Gulf of California to Galapagos Islands.
Synodus jenkinsi Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 153, off coast of Colombia, Galapagos Islands, at Albatross Stations 2797 and 2802, in 33 and 16 fathoms.
833. *Synodus foetens* (Linnaeus). *Lizard-fish; Lagarto; Soap-fish.*
Cape Cod to Brazil; common from South Carolina southward.
Salmo foetens Linnaeus, Syst. Nat., ed. xii, 513, 1766, South Carolina.
834. *Synodus lucioiceps* (Ayres).
Coast of California from San Francisco to Santa Barbara.
Saurus lucioiceps Ayres, Proc. Cal. Ac. Sci. 1855, 66, San Francisco.

Genus 250. **BATHYSAURUS** Günther.*Bathysaurus* Günther, Ann. Mag. Nat. Hist., August, 1878, 181 (*ferox*).

835. *Bathysaurus ferox* Günther.
Atlantic and South Pacific; known from off New Zealand, Morocco, and the Gulf Stream.
Bathysaurus ferox Günther, Ann. Mag. Nat. Hist. 1878, 182, east coast of New Zealand.

Genus 251. **BATHYLACO** Goode & Bean.*Bathylaco* Goode & Bean, Oceanic Ichthyology, 57, 1896 (*nigricans*).

836. *Bathylaco nigricans* Goode & Bean.
Gulf of Mexico off Santa Cruz, in deep water.
Bathylaco nigricans Goode & Bean, Oceanic Ichthyology, 57, fig. 69, 1896, off Santa Cruz, Mexico, in 2,393 fathoms.

Family **LXIX. AULOPIDÆ.**Genus 252. **CHLOROPHTHALMUS** Bonaparte.*Chlorophthalmus* Bonaparte, Fauna Italica, fasci. xxviii, Pesci, 1840 (*agassizii*).

837. *Chlorophthalmus agassizii* Bonaparte.
Atlantic and Mediterranean, rare about Naples and Sicily; eastern Atlantic, Azores, Sargasso Sea, and Cape Verde.
Chlorophthalmus agassizii Bonaparte, Fauna Italica, pl. 121, 1840, Italy.
838. *Chlorophthalmus chalybeius* (Goode).
Gulf Stream, in from 85 to 167 fathoms.
Hyphalonedrus chalybeius Goode, Proc. U. S. Nat. Mus., iii, 1881, 484, Gulf Stream, off Rhode Island, at Fish Hawk Stations 876 and 878, in 120 and 142 fathoms.

839. *Chlorophthalmus truculentus* Goode & Bean.
Off Barbados.
Chlorophthalmus truculentus Goode & Bean, Oceanic Ichthyology, 61, fig. 72, 1896, off Barbados, in 158 fathoms.

Family **LXX. BENTHOSAURIDÆ.**Genus 253. **BENTHOSAURUS** Goode & Bean.*Benthosaurus* Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 165, 1886 (*grallator*).

840. *Benthosaurus grallator* Goode & Bean.
Gulf of Mexico and Gulf Stream, in latitude 24° 33' N., longitude 84° 23' W.; latitude 39° 3' 15" N., longitude 70° 50' 45" W.
Benthosaurus grallator Goode & Bean, Bull. Mus. Comp. Zool., xii, No. 5, 168, 1886, Gulf Stream.

Family LXXI. BATHYPTEROIDÆ.

Genus 254. BATHYPTEROIS Günther.

Bathypterois Günther, Ann. Mag. Nat. Hist., 5th series, II, 1878, 183 (*longifilis*).

Subgenus SYNAPTERETMUS Goode & Bean.

Synapteretmus Goode & Bean, Oceanic Ichthyology, 64, 1896 (*quadrifilis*).

841. *Bathypterois quadrifilis* Günther.

Brazil; St. Vincent.

Bathypterois quadrifilis Günther, Ann. Mag. Nat. Hist., II, 1878, 184, off coast of Brazil, in 500 to 770 fathoms.

842. *Bathypterois longipes* Günther.

East coast of South America.

Bathypterois longipes Günther, Ann. Mag. Nat. Hist., II, 1878, 184, east coast of South America, in 2,650 fathoms.

Family LXXII. IPNOPIDÆ.

Genus 255. IPNOPS Günther.

Ipnops Günther, Ann. Mag. Nat. Hist., II, 1878, 187 (*murrayi*).

843. *Ipnops murrayi* Günther.

Coast of Brazil, Tristan da Cunha, Celebes, and in tropical America (24° 36' N., 84° W.), and off Bequia.

Ipnops murrayi Günther, Ann. Mag. Nat. Hist., II, 1878, 187, coast of Brazil, etc.

Family LXXIII. RONDELETIDÆ.

Genus 256. RONDELETIA Goode & Bean.

Rondeletia Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 454 (*bicolor*), and in Oceanic Ichthyology, 68, 1896.

844. *Rondeletia bicolor* Goode & Bean.

Gulf Stream.

Rondeletia bicolor Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 454, pl. 17, fig. 7, and in Oceanic Ichthyology, 68, fig. 77, 1896, at Albatross Station 2724, in 1,641 fathoms.

Family LXXIV. CETOMIMIDÆ.

Genus 257. CETOMIMUS Goode & Bean.

Cetomimus Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 452 (*gillii*), and in Oceanic Ichthyology, 68, 1896.

845. *Cetomimus gillii* Goode & Bean.

Gulf Stream.

Cetomimus gillii Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 452, pl. 17, fig. 2, and in Oceanic Ichthyology, 69, fig. 78, 1896, Gulf Stream, in latitude 39° 35' N., longitude 71° 24' 30" W.

846. *Cetomimus storeri* Goode & Bean.

Gulf Stream.

Cetomimus storeri Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 453, pl. 17, fig. 3, and in Oceanic Ichthyology, 69, fig. 79, 1896, Gulf Stream at Albatross Station 2222, in 1,535 fathoms.

Family LXXV. MYCTOPHIDÆ. The Lantern-Fishes.

Genus 258. MACROSTOMA Risso.

Macrostoma Risso, Europ. Mérid., III, 447, 1826 (*angustidens*): (not *Macrostoma* Wied, 1817, a genus of insects).

847. *Macrostoma quercinum* (Goode & Bean).

Western Atlantic and Mediterranean.

Notoscopelus quercinus Goode & Bean, Oceanic Ichthyology, 83, fig. 97, 1896, Grand Banks.

- 848. *Macrostoma margaritiferum*** (Goode & Bean).
Grand Banks of Newfoundland.
Notoscopelus margaritiferus Goode & Bean, *Oceanic Ichthyology*, 84, fig. 98, 1896, off Banquero.
- 849. *Macrostoma angustidens*** Risso. *Prick-fish; Maire d'Amplora*.
Atlantic and Indian oceans, Norway and Greenland.
Macrostomus angustidens Risso, *Europ. Mérid.*, III, 448, 1826, Nice.
- 850. *Macrostoma castaneum*** (Goode & Bean).
Grand Banks.
Notoscopelus castaneus Goode & Bean, *Oceanic Ichthyology*, 84, fig. 95, 1896, Grand Banks.
- 851. *Macrostoma caudispinosum*** (Johnson).
Atlantic Ocean.
Scopelus caudispinosus Johnson, *Proc. Zool. Soc. Lond.* 1863, 42, Madeira.
- Genus 269. **CERATOSCOPELUS** Günther.
Ceratoscopelus Günther, *Cat.*, v, 405 and 412, 1864 (*madeirensis*).
- 852. *Ceratoscopelus madeirensis*** (Lowe).
Atlantic and Mediterranean; west to the Grand Banks.
Scopelus madeirensis Lowe, *Proc. Zool. Soc. Lond.* 1839, 87, Madeira.
- Genus 260. **LAMPANYCTUS** Bonaparte.
Lampanyctus Bonaparte, *Fauna Italica*, fasc. XXVII, 1840 (*crocodilus*).
- 853. *Lampanyctus crocodilus*** (Risso).
Atlantic and Mediterranean; west to 40° W., 33° N.
Gasteropelecus crocodilus Risso, *Ichth. Nice*, 357, 1810, Nice.
- 854. *Lampanyctus townsendi*** (Eigenmann & Eigenmann).
Cortez Banks, near San Diego.
Myctophum townsendi Eigenmann & Eigenmann, *West Am. Sci.* 1889, 125, Cortez Banks, off San Diego, California.
- 855. *Lampanyctus alatus*** Goode & Bean.
Gulf of Mexico.
Lampanyctus alatus Goode & Bean, *Oceanic Ichthyology*, 79, fig. 92, 1896, Gulf of Mexico, in latitude 28° 43' N., longitude 87° 14' W.
- 856. *Lampanyctus guntheri*** Goode & Bean.
Grand Banks.
Lampanyctus guntheri Goode & Bean, *Oceanic Ichthyology*, 79, fig. 90, 1896, Grand Banks.
- 857. *Lampanyctus gemmifer*** Goode & Bean.
Gulf Stream.
Lampanyctus gemmifer Goode & Bean, *Oceanic Ichthyology*, 80, fig. 88, 1896, Grand Banks, in latitude 39° 40' N., longitude 71° 35' W., in 538 fathoms.
- 858. *Lampanyctus lacerta*** Goode & Bean.
Gulf of Mexico.
Lampanyctus lacerta Goode & Bean, *Oceanic Ichthyology*, 81, fig. 89, 1896, Gulf of Mexico, in latitude 28° 38' 30" N., longitude 85° 52' 30" W.
- Genus 261. **LAMPADENA** Goode & Bean.
Lampadena Goode & Bean, *Oceanic Ichthyology*, 85, 1896 (*speculigera*).
- 859. *Lampadena speculigera*** Goode & Bean.
Gulf Stream.
Lampadena speculigera Goode & Bean, *Oceanic Ichthyology*, 85, fig. 99, 1896, Gulf Stream, in latitude 39° 48' N., longitude 70° 36' W., in 551 fathoms.

Genus 262. NANNOBRACHIUM Günther.

Nannobranchium Günther, Deep Sea Fishes, Challenger, 199, 1887 (*nigrum*).

860. Nannobranchium leucopsarum (Eigenmann & Eigenmann).

Pacific Coast of America from Alaska to San Diego.

Myctophum (*Stenobranchius*) *leucopsarum* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 5, off Point Loma, California, in stomachs of *Sebastodes*.

861. Nannobranchium nannochir (Gilbert).

Alaska to Santa Barbara Islands, in deep water.

Myctophum nannochir Gilbert, Proc. U. S. Nat. Mus. 1890, 51, off Washington, at Albatross Stations 2925, 3072, and others, in 266 to 685 fathoms.

862. Nannobranchium mexicanum (Gilbert).

Coast of Lower California, in deep water.

Myctophum mexicanum Gilbert, Proc. U. S. Nat. Mus. 1890, 51, off Lower California, at Albatross Stations 3008 and 3009, in 306 and 857 fathoms.

863. Nannobranchium regale (Gilbert).

Santa Barbara Channel, in deep water.

Myctophum regale Gilbert, Proc. U. S. Nat. Mus. 1891, 544, Santa Barbara Channel, California, at Albatross Station 2923, in 822 fathoms.

864. Nannobranchium macdonaldi Goode & Bean.

Gulf Stream.

Nannobranchium macdonaldi Goode & Bean, Oceanic Ichthyology, 94, fig. 110, 1896, Gulf Stream.

Genus 263. DIAPHUS Eigenmann & Eigenmann.

Diaphus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d series, III, 1890, 3 (*theta*).

865. Diaphus theta Eigenmann & Eigenmann.

Point Loma, near San Diego, to coast of Oregon.

Diaphus theta Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., III, 1890, 4, Point Loma, near San Diego, California.

Genus 264. ÆTHOPRORA Goode & Bean.

Æthoprora Goode & Bean, Oceanic Ichthyology, 86, 1896 (*metopoclampum*).

866. Æthoprora lucida Goode & Bean.

Gulf Stream.

Æthoprora lucida Goode & Bean, Oceanic Ichthyology, 87, fig. 102, 1896, Gulf Stream, in latitude 19° 45' N., longitude 75° 4' W.

867. Æthoprora effulgens Goode & Bean.

Western Atlantic.

Æthoprora effulgens Goode & Bean, Oceanic Ichthyology, 87, fig. 103, 1896, Browns Bank and Albatross Station 2127, 19° 45' N., 75° W.

Genus 265. COLLETTIA Goode & Bean.

Collettia Goode & Bean, Oceanic Ichthyology, 88, 1896 (*rafinesquei*).

868. Collettia rafinesquei (Cocco).

Mediterranean and Atlantic; Gulf Stream, off the New England coast.

Myctophus rafinesquei Cocco, Alcuni Salmon., etc., 20, 1820, Messina.

869. Collettia nocturna (Poey).

Coast of Cuba.

Myctophum nocturnum Poey, Memorias, II, 426, 1861, Cuba.

Genus 266. RHINOSCOPELUS Lütken.

Rhinoscopus Lütken, Vid. Selsk. Natur. Kjöbenhavn, VII, 1892, 237 (*coccol*).

870. Rhinoscopus coccol (Cocco).

Western Atlantic, Gulf Stream, Mediterranean, and ranging from Newfoundland to Africa.

Scopelus coccol Cocco, Giorn. Sci. Litt. Art. Sicilia (No. 77), Palermo, 1829, 143 ("Scopelo de Cocco"), Palermo.

- 871. *Rhinoscopelus andreae* (Lütken).**
Open Atlantic and Indian Ocean; Gulf Stream.
Scopelus andreae Lütken, *Spolia Atlantica*, Scopelini, 25, 1892, North Atlantic.
- 872. *Rhinoscopelus rarus* (Lütken).**
Open Atlantic, west to 50° W., 33° N.
Scopelus rarus Lütken, *Spolia Atlantica*, Scopelini, 11, 26, 1892, North Atlantic
- Genus 267. MYCTOPHUM Rafinesque.**
Myctophum Rafinesque, *Indice d'Ittiologia Siciliana*, 56, 1810 (*punctatum*).
- 873. *Myctophum punctatum* Rafinesque.**
Warmer parts of the Atlantic, Grand Banks, and from the Gulf Stream to the Mediterranean.
Myctophum punctatum Rafinesque, *Indice d'Ittiologia Siciliana*, 56, pl. 2, fig. 5, 1810, Palermo.
- 874. *Myctophum affine* (Lütken).**
Open Atlantic, west to 63° W., 38° N.
Scopelus affinis Lütken, *Spolia Atlantica*, 11, 32, 1892, open Atlantic.
- 875. *Myctophum opalinum* Goode & Bean.**
Western Atlantic.
Myctophum opalinum Goode & Bean, *Oceanic Ichthyology*, 72, fig. 81, 1896, Gulf Stream.
- 876. *Myctophum humboldti* (Risso).**
Open seas, Mediterranean, and Atlantic on both shores.
Gasteropelecus humboldti Risso, *Ichth. Nice*, 358, 1810, Nice.
- 877. *Myctophum californiense* Eigenmann & Eigenmann.**
Cortez Banks, near San Diego, California.
Myctophum californiense Eigenmann, *West Am. Sci.*, November 9, 1889, 124, San Diego, California.
- 878. *Myctophum gracile* (Lütken).**
Open Atlantic, west to 48° W., 23° N.
Scopelus gracilis Lütken, *Spolia Atlantica*, 11, 35, 1892, open Atlantic.
- 879. *Myctophum benoiti* (Cocco).**
Mediterranean to Norway and Greenland.
Scopelus benoiti Cocco, *Lett. su. Salmon.*, 12, pl. 2, fig. 4, 1838, Messina.
- 880. *Myctophum hygomii* (Lütken).**
North Atlantic, occasional in our waters.
Scopelus hygomii Lütken, *Spolia Atlantica*, Scopelini, 256, 1892, North Atlantic.
- Genus 268. BENTHOSEMA Goode & Bean.**
Benthoosema Goode & Bean, *Oceanic Ichthyology*, 75, 1896 (*mulleri*).
- 881. *Benthoosema mulleri* (Gmelin).**
North Atlantic, Norway to Greenland; South Carolina.
Salmo mulleri Gmelin, *Syst. Nat.*, 1378, 1788, Norway; after Strom.
- 882. *Benthoosema arcticum* (Lütken).**
Davis Straits, Greenland.
Scopelus arcticum Lütken, *Spolia Atlantica*, Scopelini, 29, 1892, Davis Straits.
- Genus 269. DASYSCOPELUS Günther.**
Dasy Scopelus Günther, *Cat.*, v, 405, 1864 (*asper*).
- 883. *Dasy Scopelus spinosus* (Steindachner).**
Open seas; mid-Atlantic; Hawaiian Islands, etc.
Scopelus spinosus Steindachner, *Sitzungsber. Ichth. Notiz.*, v, 11, 1867, China.

Genus 270. **TARLETONBEANIA** Eigenmann & Eigenmann.

Tarletonbeania Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., iv, 1890, 7
(*tenua*).

884. *Tarletonbeania crenularis* (Jordan & Gilbert).

Santa Barbara Channel; coast of Washington.
Myctophum crenulare Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 274, Santa
Barbara, California.

885. *Tarletonbeania tenua* Eigenmann & Eigenmann.

Coronado Islands, near San Diego.
Tarletonbeania tenua Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., iv, 1890,
7, Coronado Islands, near San Diego, California.

Family **LXXVI. MAUROLICIDÆ.**Genus 271. **MAUROLICUS** Cocco.

Maurolicus Cocco, Lett. su. Salmon., 32, 1838 (*amethystino* = *punctatus*).

886. *Maurolicus pennanti* (Walbaum).

Open seas, widely distributed; New England coast at Nahant, Provincetown,
Woods Hole, etc.
Argentina pennanti Walbaum, Artedi Pisc., 47, 1792, England; after "*Sheppy
argentine*" of Pennant.

Genus 272. **VINCIGUERRIA** Jordan & Evermann.

Vinciguerria Jordan & Evermann, Fishes North and Middle America, 577,
1896 (*attenuata*).

887. *Vinciguerria attenuata* (Cocco).

Open Atlantic, west to the Bahama region.
Maurolicus attenuatus Cocco, Lett. su. Salmon., 33, 1838, coast of Italy.

Genus 273. **VALENCIENNELLUS** Jordan & Evermann.

Valenciennellus Jordan & Evermann, Fishes North and Middle America, 577,
1896 (*tripunctulatus*).

888. *Valenciennellus tripunctulatus* (Esmark).

Madagascar; Denmark Straits, between Greenland and Iceland.
Maurolicus tripunctulatus Esmark, Christiania Vid. Selsk. Forh., 488, 1870,
Madagascar.

Family **LXXVII. CHAULIODONTIDÆ. The Viper-Fishes.**Genus 274. **GONOSTOMA** Rafinesque.

Gonostoma Rafinesque, Indice d'Ittiologia Siciliana, 64, 1810 (*denudatum*).

889. *Gonostoma denudatum* Rafinesque.

Gulf of Mexico at Albatross Station 2665; off Morocco and Cape Verdes;
Mediterranean Sea.
Gonostoma denudata Rafinesque, Indice d'Ittiol. Sicil., 65, 1810, Palermo.

890. *Gonostoma brevidens* Kner & Steindachner.

Grenada; Bahama Channel; Bequia.
Gonostoma brevidens Kner & Steindachner, Sitzb. Akad. Wissensch., Wien,
LXI, 1870, 443, Atlantic.

Genus 275. **BONAPARTIA** Goode & Bean.

Bonapartia Goode & Bean, Oceanic Ichthyology, 102, 1896 (*pedaliota*).

891. *Bonapartia pedaliota* Goode & Bean.

Gulf Stream.
Bonapartia pedaliota Goode & Bean, Oceanic Ichthyology, 102, fig. 120, 1896,
Gulf Stream, at Albatross Station 2642.

Genus 276. CYCLOTHONE Goode & Bean.*Cyclothone* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 221, 1882 (*lusca*).Subgenus **CYCLOTHONE** Goode & Bean.**892. Cyclothone microdon** (Günther).

Bermuda; Atlantic, Pacific, and Antarctic oceans; Pacific Coast from Oregon to Panama.

Gonostoma microdon Günther, Ann. Mag. Nat. Hist., II, 1878, 188, near Bermuda.**893. Cyclothone bathyphila** (Vaillant).

Gulf of Gascony and off the Azores; western Atlantic.

Neostoma bathyphilum Vaillant, La Nature, 1884, 184, name and rough figure only.Subgenus **SIGMOPS** Gill.*Sigmops* Gill, Proc. U. S. Nat. Mus. 1883, 256 (*stigmaticus*).**894. Cyclothone elongata** (Günther).

New Guinea; Banda; American coast; Gulf Stream; Indian Ocean.

Gonostoma elongatum Günther, Ann. Mag. Nat. Hist., II, 1878, 187, New Guinea; Banda.**Genus 277. YARELLA** Goode & Bean.*Yarella* Goode & Bean, Oceanic Ichthyology, 103, 1896 (*blackfordi*).**895. Yarella blackfordi** Goode & Bean.

Gulf Stream.

Yarella blackfordi Goode & Bean, Oceanic Ichthyology, 103, fig. 121, 1896, Gulf Stream, at Albatross Station 2376, in 324 fathoms.**Genus 278. CHAULIODUS** Bloch & Schneider.*Chauliodus* Bloch & Schneider, Syst. Ichth., 430, 1801 (*sloanei*).**896. Chauliodus sloanei** Bloch & Schneider.

Mediterranean and deep waters of the Atlantic; Georges Banks.

Chauliodus sloanei Bloch & Schneider, Syst. Ichth., 430, 1801, Atlantic; after *Vipera marina* of Catesby.**897. Chauliodus macouni** Bean.

Coast of California to British Columbia and Queen Charlotte Islands.

Chauliodus macouni Bean, Proc. U. S. Nat. Mus. 1890, 44, off Queen Charlotte Islands.**Family LXXVIII. ASTRONESTHIDÆ.****Genus 279. ASTRONESTHES** Richardson.*Astronesthes* Richardson, Ichth. Voy. Sulph., 97, 1845 (*niger*).**898. Astronesthes niger** Richardson.

Deep waters of all seas.

Astronesthes niger Richardson, Ichth. Voy. Sulph., 97, 1845, Atlantic.**899. Astronesthes gemmifer** Goode & Bean.

Gulf Stream.

Astronesthes gemmifer Goode & Bean, Oceanic Ichthyology, 105, fig. 124, 1896, Grand Banks, latitude 44° 25' N., longitude 53° 12' W., in 300 fathoms.**900. Astronesthes richardsoni** (Poey).

Deep waters of West Indies; Indian and Pacific oceans.

Chauliodus richardsoni Poey, Memorias, I, 176, 1855, Cuba.

Family LXXIX. STOMIATIDÆ.

Genus 280. STOMIAS Cuvier.

Stomias Cuvier, Règne Anim., ed. 1, 184, 1817 (*boa*).

901. *Stomias ferox* Reinhardt.

Greenland and southward; Gulf Stream from Bahama Channel to the Grand Banks.

Stomias ferox Reinhardt, Vidensk. Selsk. Naturv., etc., x, 77, 1842, Greenland.

902. *Stomias affinis* Günther.

Sombrero Island.

Stomias affinis Günther, Deep Sea Fishes, Challenger, XXII, 205, pl. 54, fig. A, 1887, off Sombrero Island.

Genus 281. ECHIOSTOMA Lowe.

Echiostoma Lowe, Proc. Zool. Soc. Lond. 1843, 87 (*barbatum*).

903. *Echiostoma barbatum* Lowe.

Madeira; Gloucester, Mass., and southward in the Gulf Stream to the old Bahama Channel.

Echiostoma barbatum Lowe, Proc. Zool. Soc. Lond. 1843, 88, Madeira.

904. *Echiostoma margarita* Goode & Bean.

Middle of the Gulf of Mexico.

Echiostoma margarita Goode & Bean, Oceanic Ichthyology, 109, fig. 131, 1896, Gulf of Mexico.

Genus 282. GRAMMATOSTOMIAS Goode & Bean.

Grammatostomias Goode & Bean, Oceanic Ichthyology, 110, 1896 (*dentatus*).

905. *Grammatostomias dentatus* Goode & Bean.

Gulf Stream.

Grammatostomias dentatus Goode & Bean, Oceanic Ichthyology, 110, fig. 133, 1896, Gulf Stream, in latitude 38° 19' 20" N., longitude 69° 2' 30" W.

Genus 283. PHOTONECTES Günther.

Photonectes Günther, Challenger Report, XXII, 212, 1887 (*albipinnis*).

906. *Photonectes gracilis* Goode & Bean.

Martinique.

Photonectes gracilis Goode & Bean, Oceanic Ichthyology, 112, 1896, off Martinique.

Family LXXX. MALACOSTEIDÆ.

Genus 284. MALACOSTEUS Ayres.

Malacosteus Ayres, Jour. Bost. Soc. Nat. Hist. 1849, 53 (*niger*).

907. *Malacosteus niger* Ayres.

Open sea; Gulf Stream and southward to Barbados.

Malacosteus niger Ayres, Jour. Bost. Soc. Nat. Hist. 1849, 53, Gulf Stream, 42° N., 60° W.

Family LXXXI. ALEPISAUROIDÆ. The Lancet-Fishes.

Genus 285. ALEPISAUROS Lowe. Lancet-fishes.

Alepisaurus Lowe, Proc. Zool. Soc. Lond. 1833, 104 (*ferox*).

Subgenus ALEPISAUROS Lowe.

908. *Alepisaurus ferox* Lowe.

Deep waters of the Atlantic; coasts of Nova Scotia and Massachusetts, and the Grand Banks.

Alepisaurus ferox Lowe, Trans. Zool. Soc. Lond., 1, 1833, 395, Madeira.

909. *Alepisaurus æsculapius* (Beau). *Sabatka*; *Wolf-fish*.
Coast of Alaska to California; Unalaska and elsewhere.
Alepidosaurus æsculapius Bean, Proc. U. S. Nat. Mus. 1882, 661. Unalaska.
Subgenus CAULOPUS GILL.
Caulopus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 128 (*altivelis*).
910. *Alepisaurus altivelis* Poey. *Conejo*.
Cuba.
Alepisaurus altivelis Poey, Memorias, II, 302, 1860, Cuba.
911. *Alepisaurus borealis* (Gill). *Handsaw-fish*.
Pacific Coast of America from Alaska to Puget Sound.
Alepidosaurus (Caulopus) borealis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 128, Puget Sound.
912. *Alepisaurus serra* (Gill). *Serra*.
Monterey, California.
Alepidosaurus (Caulopus) serra Gill, Proc. Ac. Nat. Sci. Phila. 1862, 129, Monterey, California.

Family LXXXII. ODONTOSTOMIDÆ.

Genus 286. OMOAUDIS Günther.

Omosudis Günther, Challenger Report, XXII, 201, 1887 (*lowii*).

913. *Omosudis lowii* Günther.
Open sea; Gulf Stream, at Albatross Station 2392.
Omosudis lowii Günther, Challenger Report, XXII, 201, pl. 52, figs. c, c', 1887, Philippine Islands; Magdalena.

Family LXXXIII. PARALEPIDIDÆ.

Genus 287. SUDIS Rafinesque.

Sudis Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 60, 1810 (*hyalina*).

914. *Sudis intermedius* (Poey).
Matanzas, Cuba.
Paralepis intermedius Poey, Repertorio, II, 416, 1867, Matanzas.
915. *Sudis ringens* Jordan & Gilbert.
Santa Barbara Channel, California.
Sudis ringens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 273, Santa Barbara.

Genus 288. ARCTOZENUS Gill.

Arctozenus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 188 (*borealis*).

916. *Arctozenus borealis* (Reinhardt).
Greenland and southward to Cape Ann.
Paralepis borealis Reinhardt, Naturv. Math. Afhandl., VII, 115, 1832, Greenland.
917. *Arctozenus coruscans* (Jordan & Gilbert).
Puget Sound.
Paralepis coruscans Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 411, harbor of Port Townsend, Washington.

Genus 289. PARALEPIS Risso.

Paralepis Risso, Hist. Nat. Eur. Mérid., III, 472, 1826 (*coregonoidea*).

918. *Paralepis coregonoidea* Risso.
Mediterranean; Gulf Stream at Albatross Station 2393.
Paralepis coregonoidea Risso, Hist. Nat. Eur. Mérid., III, 472, pl. 7, fig. 15, 1826, Nice.

Family LXXXIV. STERNOPTYCHIDÆ.

Genus 290. STERNOPTYX Hermann.

Sternoptyx Hermann, Naturforscher, xvi, 8, 1771 (*diaphana*).919. *Sternoptyx diaphana* Hermann.Atlantic; Gulf Stream, from Santa Cruz Island to the Grand Banks.
Sternoptyx diaphana Hermann, Naturforscher, xvi, 8, 1771, Jamaica.

Genus 291. ARGYROPELECUS Cocco.

Argyropelecus Cocco, Giorn. Sci. Sicil., fasc. 77, 146, 1829 (*hemigymnus*).920. *Argyropelecus hemigymnus* Cocco.Atlantic and Mediterranean; Gulf Stream off southern New England.
Argyropelecus hemigymnus Cocco, Giorn. Sci. Sicil., fasc. 77, 146, 1829, coast of Italy.921. *Argyropelecus olfersi* (Cuvier).

Open Atlantic; coast of Norway to Brazil and Cape of Good Hope, Grand Banks southward in the Gulf Stream.

Sternoptyx olfersi Cuvier, Règne Anim., ed. 2, ii, 316, 1829, near Cape of Good Hope.

Family LXXXV. IDIACANTHIDÆ.

Genus 292. IDIACANTHUS Peters.

Idiacanthus Peters, Monatsber. Akad. Wiss. Berlin 1876, 846 (*fasciola*).922. *Idiacanthus ferox* (Günther).

North Atlantic.

Bathyopsis ferox Günther, Ann. Mag. Nat. Hist., ii, 1878, 181, North Atlantic.923. *Idiacanthus antrostomus* Gilbert.

Coast of southern California, in deep water.

Idiacanthus antrostomus Gilbert, Proc. U. S. Nat. Mus. 1890, 54, off southern California, at Albatross Station 2980, in 603 fathoms.

Order U. LYOPOMI.

Family LXXXVI. HALOSAURIDÆ.

Genus 293. HALOSAURUS Johnson.

Halosaurus Johnson, Proc. Zool. Soc. Lond. 1863, 406 (*oweni*).924. *Halosaurus oweni* Johnson.

Madeira; Gulf Stream, at Albatross Station 2181; Guadeloupe and Santa Lucia.

Halosaurus oweni Johnson, Proc. Zool. Soc. Lond. 1863, 406, pl. 36, fig. 2, Madeira.925. *Halosaurus guntheri* Goode & Bean.

Gulf Stream.

Halosaurus guntheri Goode & Bean, Oceanic Ichthyology, 131, 1896, Gulf Stream, in latitude 39° 13' N., longitude 72° W., Albatross Station 2722.

Genus 294. ALDROVANDIA Goode & Bean.

Aldrovandia Goode & Bean, Oceanic Ichthyology, 132, 1896 (*rostratus*).926. *Aldrovandia rostrata* (Günther).

Mid-Atlantic.

Halosaurus rostratus Günther, Ann. Mag. Nat. Hist., ii, 1878, 252, mid-Atlantic.927. *Aldrovandia macrochir* (Günther).

Marion Island; Blake Stations 308 and 325.

Halosaurus macrochir Günther, Ann. Mag. Nat. Hist., ii, 1878, 251, between Cape of Good Hope and Kerguelen Island.

928. *Aldrovandia goodii* (Gill).
 Gulf Stream, at Albatross Stations 2037 in 1,731 fathoms, 2051 in 1,106 fathom
 2035 in 1,362 fathoms, and 2052 in 1,098 fathoms.
Halosaurus goodii Gill, Proc. U. S. Nat. Mus. 1883, 257, Gulf Stream, at Albatross
 Stations 2035, 2037, 2051, and 2052, off South Carolina.
929. *Aldrovandia gracilis* Goode & Bean.
 Gulf Stream and Gulf of Mexico.
Aldrovandia gracilis Goode & Bean, Oceanic Ichthyology, 134, fig. 157, 1896, off
 Guadeloupe, and in Gulf Stream at Albatross Station 2380, latitude 28°
 2' 30" N., longitude 87° 43' 45" W.; also Albatross Station 2381, latitude
 28° 5' N., longitude 87° 56' 15" W.
930. *Aldrovandia pallida* Goode & Bean.
 Gulf Stream, at Albatross Station 173 in 955 fathoms in Gulf Stream.
Aldrovandia pallida Goode & Bean, Oceanic Ichthyology, 135, fig. 158, 1896,
 Gulf of Mexico.

Order V. HETEROMI. The Spiny Eels.

Family LXXXVII. NOTACANTHIDÆ.

Genus 295. NOTACANTHUS Bloch.

Notacanthus Bloch, Abhandl. Böhmischen Gesellsch. der Wissenschaft, 1, 278,
 1787 (*chemnitzii*) (*nasus*).

931. *Notacanthus chemnitzii* Bloch.
 Greenland; West Indies; Iceland; Scandinavia; South Greenland.
Notacanthus chemnitzii Bloch, Abhandl. Böhmischen Gesellsch. der Wissen-
 schaft, 1, 278, 1787, Northern Sea.
932. *Notacanthus analis* Gill.
 Gulf Stream.
Notacanthus analis Gill, Proc. U. S. Nat. Mus. 1883, 255, latitude 40° N., longi-
 tude 69° W., at Albatross Stations 2677 in 478 fathoms, and 2676 in 407
 fathoms.
933. *Notacanthus phasganorus* Goode.
 Grand Banks, Newfoundland.
Notacanthus phasganorus Goode, Proc. U. S. Nat. Mus., III, 1880, 535, Grand
 Banks of Newfoundland.
- Genus 296. MACDONALDIA Goode & Bean.
Macdonaldia Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 467 (*rostrata*).
934. *Macdonaldia rostrata* (Collett).
 Gulf Stream.
Notacanthus rostratus Collett, Bull. Soc. Zool. France, 1889, 307, off New-
 foundland, at Albatross Stations 2216 in 963 fathoms, and 2553 in 551
 fathoms.
935. *Macdonaldia challengeri* (Vaillant).
 North Pacific and Bering Sea.
Notacanthus challengeri Vaillant, Expédition Travailleur et Talisman, 1888,
 south of Yeddo.

Family LXXXVIII. LIPOGENYIDÆ.

Genus 297. LIPOGENYS Goode & Bean.

Lipogenys Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 469 (*gillii*).

936. *Lipogenys gillii* Goode & Bean.
 Gulf Stream.
Lipogenys gillii Goode & Bean, Proc. U. S. Nat. Mus. 1894 (1895), 469, pl. 18,
 fig. 3, and in Oceanic Ichthyology, 173, 1896, Station 2742, Gulf Stream.

Order W. XENOMI.

Family LXXXIX. DALLIIDÆ. The Alaska Blackfishes

Genus 298. DALLIA Bean.

Dallia Bean, Proc. U. S. Nat. Mus. 1879, 358 (*pectoralis*).937. *Dallia pectoralis* Bean. *Alaska Blackfish*; *Charnia Ryba*.

Northern Alaska and Siberia.

Dallia pectoralis Bean, Proc. U. S. Nat. Mus. 1879, 358, St. Michaels, Alaska.

Order X. HAPLOMI. The Pike-like Fishes.

Family XC. UMBRIDÆ. The Mud Minnows.

Genus 299. UMBRA (Krämer) Müller.

Umbra Krämer, Anim. Austr. Infer. 1756; Müller, Abhandl. Akad. Wiss. Wien, Berlin, 188, 1842 (*orameri*).

Subgenus MELANURA Agassiz.

Melanura Agassiz, Am. Jour. Sci. Arts 1854, 135 (*annulata*, etc., = *pygmæa*).938. *Umbra limi* (Kirtland). *Mud Minnow*; *Dogfish*.

Quebec to Minnesota and southward to the Ohio River.

Hydrargyra limi Kirtland, Bost. Jour. Nat. Hist., III, 1840, 277, streams in northern Ohio.939. *Umbra pygmæa* (DeKay). *Eastern Mud Minnow*.

Lowland streams and coastwise swamps from Long Island to Neuse River.

Leuciscus pygmæus DeKay, New York Fauna: Fishes, 214, 1842, Tappan, Rockland County, New York.

Family XCI. LUCIIDÆ. The Pikes.

Genus 300. LUCIUS Rafinesque.

Lucius Rafinesque, Caratteri di Alcuni Nuovi Generi, 59, 1810 (*lucius*).

Subgenus KENOZA Jordan & Evermann.

Kenoza Jordan & Evermann, Fishes North and Middle America, 625, 1896 (*americanus*).940. *Lucius americanus* (Gmelin). *Banded Pickerel*.

Massachusetts to Florida, east of Alleghany Mountains; Escambia River at Flomaton, Alabama.

Esox lucius (*B. americanus*) Gmelin, Syst. Nat., 1390, 1788, Long Island, New York; after Schöpfung.941. *Lucius vermiculatus* (LeSueur). *Little Pickerel*.

Mississippi Valley, tributaries of Lake Erie and Lake Michigan, south to Mississippi and Arkansas.

Esox vermiculatus LeSueur, in Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 333, 1846, Wabash River, New Harmony, Indiana.942. *Lucius reticulatus* (LeSueur). *Common Eastern Pickerel*; *Green Pike*; *Jack*.
Maine to Florida, Louisiana, Arkansas, and Tennessee.*Esox reticulatus* LeSueur, Jour. Ac. Nat. Sci. Phila., I, 1818, 414, Connecticut River, Adams, Massachusetts; Philadelphia.

Subgenus LUCIUS Rafinesque.

943. *Lucius lucius* (Linnaeus). *Common Pike*; *Pickerel*.

Fresh waters of the northern parts of Europe, Asia, and North America, north to Alaska and Siberia; in the eastern United States south to New York and the Ohio River; in Europe south to Italy and Greece.

Esox lucius Linnaeus, Syst. Nat., ed. x, 314, 1758, Europe.

Subgenus MASCALONGUS Jordan.

Mascalongus Jordan, Klippart's Report Ohio Fish Com., 92, 1878 (*nobilior*).

944. *Lucius masquinongy* (Mitchill). *Muskallunge*; *Masquinongy*; *Muscalonge*.
Great Lakes region; Upper Mississippi Valley and northward.
Esox masquinongy Mitchill, Mirror, 1824, 297.
- 944a. *Lucius masquinongy ohioensis* (Kirtland). *Ohio Muscalonge*.
Ohio River and its tributaries.
Esox ohioensis Kirtland, Proc. Cleveland Ac. Nat. Sci., February 7, 1854, 85,
Mahoning River, Ohio.
- 944b. *Lucius masquinongy immaculatus* (Garrard). *Great Northern Pike*.
Lakes of Wisconsin and Minnesota; also in Chautauqua Lake and Conneaut
Lake.
Esox immaculatus Garrard ms., noticed in different fishing journals; Jordan,
Manual, ed. 5, 89, 1888, Eagle Lake, northern Wisconsin.

Family XCII. PÆCILIIDÆ. The Killifishes.

Genus 301. FUNDULUS Lacépède. Killifishes.

Fundulus Lacépède, Hist. Nat. Poiss., v, 37, 1803 (*mudfish*).

Subgenus FUNDULUS Lacépède.

945. *Fundulus punctatus* Günther.
Chiapas.
Fundulus punctatus Günther, Cat., vi, 320, 1866, Chiapas.
946. *Fundulus vinctus* Jordan & Gilbert.
Coast of Lower California.
Fundulus vinctus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 355, Cape
San Lucas.
947. *Fundulus pallidus* Evermann.
Galveston Bay and Swan Lake, Texas.
Fundulus pallidus Evermann, Bull. U. S. Fish Com. 1891 (1892), 84, Swan Lake,
near Galveston Bay, Galveston, Texas.
948. *Fundulus similis* (Baird & Girard). *Sac-a-Lait*.
Coast of the Gulf States.
Hydrargyra similis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389,
Indianola, Texas.
949. *Fundulus majalis* (Walbaum). *Killifish*; *Mayfish*; *Rockfish*.
Cape Cod to Florida.
Cobitis majalis Walbaum, Artedi Pisc., 12, 1792, Long Island.
950. *Fundulus parvipinnis* Girard.
Coast of California from Point Conception southward to Lower California.
Fundulus parvipinnis Girard, Proc. Ac. Nat. Sci. Phila. 1854, 154, San Diego.
951. *Fundulus lima* Vaillant.
Lower California.
Fundulus lima Vaillant, Bull. Soc. Philom. 1894, 71, San Ignatio de Caraca-
mande, Lower California.
952. *Fundulus heteroclitus* (Linnaeus). *Common Killifish*; *Mudfish*; *Mud Dabber*;
Mummichog; *Cobbler*.
Coast of Maine to the Rio Grande; Gulf Coast.
Cobitis heteroclitus Linnaeus, Syst. Nat., ed. XII, 500, 1766, Charleston; after the
Mudfish of Dr. Garden.
- 952a. *Fundulus heteroclitus grandis* (Baird & Girard).
Gulf Coast of United States.
Fundulus grandis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Indi-
anola, Texas.

953. *Fundulus ocellaris* Jordan & Gilbert.
Gulf Coast of Florida to Louisiana.
Fundulus ocellaris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 255, Pensacola, Florida, in salt water.
954. *Fundulus fonticola* Cuvier & Valenciennes.
Mountain springs in Porto Rico.
Fundulus fonticola Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 198, 1846, Porto Rico.
955. *Fundulus bermudæ* Günther. *Mangrove Minnow*.
Bermudas.
Fundulus bermudæ Günther, Ann. Mag. Nat. Hist. 1874, 4, reprint, Bermudas.
956. *Fundulus robustus* Bean.
Streams of Guanajuato.
Fundulus robustus Bean, Proc. U. S. Nat. Mus. 1892, 285, Guanajuato.
957. *Fundulus labialis* Günther.
River of Guatemala.
Fundulus labialis Günther, Cat., vi, 319, 1866, Rio San Geronimo; Yzabal.
Subgenus FONTINUS Jordan & Evermann.
Fontinus Jordan & Evermann, Fishes North and Middle America, 645, 1896 (*seminolis*).
958. *Fundulus adinia* Jordan & Gilbert.
Rio Grande Basin.
Fundulus adinia Jordan & Gilbert, Synopsis, 335, 1883, Rio Grande at Brownsville, Texas.
959. *Fundulus diaphanus* (LeSueur).
Maine to Cape Hatteras in river mouths; New York to northern Illinois in lakes.
Hydrargyra diaphana LeSueur, Jour. Ac. Nat. Sci. Phila., 1, 1817, 130, Saratoga Lake, New York.
- 959a. *Fundulus diaphanus menona* (Jordan & Copeland).
Ohio westward to the Mississippi River; Lake Menona, near Madison, Wis.
Fundulus menona Jordan & Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 68, lakes about Madison, Wisconsin.
960. *Fundulus extensus* Jordan & Gilbert.
Coast of Lower California.
Fundulus extensus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 355, Cape San Lucas.
961. *Fundulus seminolis* Girard.
Florida.
Fundulus seminolis Girard, Proc. Ac. Nat. Sci. Phila. 1859, 59, Palatka, eastern Florida.
Subgenus PLANCTERUS Garman.
Plancterus Garman, Cyprinodonts, 96, 1895 (*kansas*=*zebrinus*).
962. *Fundulus zebrinus* Jordan & Gilbert.
Kansas to Texas and New Mexico, in upper tributaries of Arkansas and Red rivers.
Fundulus zebrinus Jordan & Gilbert, Synopsis, 891, 1883 (substitute for *zebra* Girard, preoccupied), streams between Fort Defiance and Fort Union, New Mexico; doubtless headwaters of Canadian River, near Fort Union.
Subgenus XENISMA Jordan.
Xenisma Jordan, Bull. Buffalo Soc. Nat. Hist. 1876, 142 (*stellifera*).
963. *Fundulus catenatus* (Storer). *Studfish*.
Tennessee and Cumberland rivers and clear streams of the Ozark Mountains.
Pæcilia catenata Storer, Synopsis, 430, 1846, Tennessee River, Florence, Alabama.

964. *Fundulus stellifer* (Jordan). *Studsfish*.
Alabama River and tributaries.
Xenisma stellifera Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 322, Etowah and Oostanaula rivers, Rome, Georgia.
- Subgenus GAMBUSINUS Jordan & Evermann.
Gambusinus Jordan & Evermann, Fishes North and Middle America, 649, 1896 (rathbuni).
965. *Fundulus lineatus* (Garman).
Northeastern Wyoming.
Zygonectes lineatus Garman, Bull. Mus. Zool., VIII, No. 3, 88, 1881, northeastern Wyoming.
966. *Fundulus rathbuni* Jordan & Meek.
Eastern North Carolina.
Fundulus rathbuni Jordan & Meek, Proc. U. S. Nat. Mus. 1888, 356, Reedy Fork, Allemanee Creek, Buffalo Creek, and other tributaries of Cape Fear River about Greensboro, North Carolina; Jumping Run, tributary of Yadkin River, Salisbury, North Carolina.
967. *Fundulus albolineatus* Gilbert.
Tennessee Basin in Alabama.
Fundulus albolineatus Gilbert, Bull. U. S. Fish Com. 1889, 149, Spring Creek, Huntsville, Alabama.
968. *Fundulus confluentus* Goode & Bean.
Eastern Florida.
Fundulus confluentus Goode & Bean, Proc. U. S. Nat. Mus. 1879, 118, Lake Monroe, Florida.
969. *Fundulus funduloides* (Evermann).
Coast of Texas.
Zygonectes funduloides Evermann, Bull. U. S. Fish. Com. 1891 (1892), 85, Dickinson Bayou, Dickinson, Texas, on Galveston Bay.
- Subgenus ZYGONECTES Agassiz.
Zygonectes Agassiz, Ann. Jour. Sci. Arts 1854, 135 (*olivacea* = *notatus*).
970. *Fundulus macdonaldi* (Meek).
Tributaries of Gasconade and Neosho rivers, southern Missouri.
Zygonectes macdonaldi Meek, Bull. U. S. Fish Com. 1889, 122, Jones Creek, Dixon, Mo.; Osage Fork of Gasconade River, at Mansfield; Neosho River.
971. *Fundulus floripinnis* (Cope).
Platte River and Arkansas River, in Colorado; Cherry Creek, a tributary of the Arkansas.
Haplochilus floripinnis Cope, Zool. Lieut. Wheeler's Expl. W. 100th Mer., v, 695, 1876, Platte River, at Denver, Colorado.
972. *Fundulus jenkinsi* (Evermann).
Coast of Texas.
Zygonectes jenkinsi Evermann, Bull. U. S. Fish Com. 1891 (1892), 86, Dickinson Bayou, Galveston Bay.
973. *Fundulus pulvereus* (Evermann).
Coast of Texas.
Zygonectes pulvereus Evermann, Bull. U. S. Fish Com. 1891 (1892), 85, Dickinson Bayou; Buffalo Bayou at Houston; Oso Creek at Corpus Christi, Texas.
974. *Fundulus arlingtonius* (Goode & Bean).
Arlington River, a tributary of St. Johns River, Florida.
Gambusia arlingtonia Goode & Bean, Proc. U. S. Nat. Mus. 1879, 118, Arlington River, Florida.
975. *Fundulus henshalli* (Jordan).
Southern Florida.
Zygonectes henshalli Jordan, Proc. U. S. Nat. Mus. 1879, 237, San Sebastian River, Florida.

976. *Fundulus rubrifrons* (Jordan).

Eastern Florida.

Zygonectes rubrifrons Jordan, Proc. U. S. Nat. Mus. 1879, 237, San Sebastian River, Florida.977. *Fundulus scartes* Meek.

Eastern Arkansas.

Fundulus scartes Meek, Bull. U. S. Fish Com. 1895 (1896), 347, St. Francis River, Big Bay, Arkansas.978. *Fundulus sciadicus* Cope.

Middle Missouri River basin.

Fundulus sciadicus Cope, Proc. Ac. Nat. Sci. Phila. 1865, 78, Platte River, Nebraska.979. *Fundulus luciae* (Baird & Girard).

Atlantic Coast from Long Island to Virginia.

Hydragyra luciae Baird, Ninth Smithson. Rept. 1855, 344, Beesley Point, New Jersey.980. *Fundulus goodei* (Jordan).

Everglades region; Alligator, Arlington, Peace, and Withlacoochee rivers.

Lucania goodei Jordan, Proc. U. S. Nat. Mus. 1879, 240, Arlington River, Florida, a tributary of the St. Johns.981. *Fundulus chrysotus* Holbrook.

South Carolina to Florida.

Fundulus chrysotus Holbrook MS., 1860, Charleston, South Carolina.982. *Fundulus cingulatus* Cuvier & Valenciennes.

South Carolina to Florida; Escambia River at Flomaton, Alabama.

Fundulus cingulatus Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 197, 1846, "United States."983. *Fundulus nottii* (Agassiz). *Star-headed Minnow*.

Florida and neighboring States.

Zygonectes nottii Agassiz, Am. Jour. Sci. Arts 1854, 353, Mobile, Alabama.984. *Fundulus guttatus* (Agassiz).

Florida to Texas.

Zygonectes guttatus Agassiz, Am. Jour. Sci. Arts 1854, 353, Mobile, Alabama.985. *Fundulus dispar* (Agassiz).

Northern Ohio to Illinois, south to Mississippi; Maumee, Wabash, Big Black, and Pearl rivers.

Zygonectes dispar Agassiz, Am. Jour. Sci. Arts 1854, 353, creeks opposite St. Louis; Beardstown, Illinois.986. *Fundulus notatus* (Rafinesque). *Top Minnow*.

Michigan to Alabama, Mississippi, and Texas.

Semotilus notatus Rafinesque, Ichth. Ohiensis, 86, 1820, tributaries of Ohio River in Kentucky.Genus 302. *APIOCHEILUS* McClelland.*Aplocheilus* McClelland, Ind. Cypr. As. Res., XIX, 301, 1839 (*chrysoptigmus* = *panchax*).987. *Aplocheilus dovii* (Günther).

Coast of Costa Rica.

Haplochilus dovii Günther, Cat., VI, 316, 1866, Punta Arenas, Costa Rica.

Genus 303. ADINIA Girard.

Adinia Girard, Proc. Ac. Nat. Sci. Phila. 1859, 117 (*multifasciata*).

988. *Adinia guatemalensis* (Günther).

Guatemala, south to western Ecuador.

Fundulus guatemalensis Günther, Cat., vi, 321, 1866, Lake of Duenas, Lake Amatitlan, Rio Guacalate, and western Ecuador.

989. *Adinia pachycephala* (Günther).

Guatemala.

Fundulus pachycephalus Günther, Cat., vi, 321, 1866, Lake Atitlan, Guatemala.

990. *Adinia dugesii* (Bean).

Guanajuato, Mexico.

Fundulus dugesii Bean, Proc. U. S. Nat. Mus. 1887, 373, Guanajuato.

991. *Adinia multifasciata* Girard.

Gulf Coast, western Florida to Texas.

Adinia multifasciata Girard, Proc. Ac. Nat. Sci. Phila. 1859, 11, Galveston, St. Joseph Island, and Indianola, Texas.

Genus 304. RIVULUS Poey.

Rivulus Poey, Memorias de Cuba, II, 307, 1860 (*cylindraceus*).

992. *Rivulus cylindraceus* Poey.

Havana, Cuba.

Rivulus cylindraceus Poey, Memorias, II, 308, 1860, stream at Mordazo, near Havana, Cuba.

993. *Rivulus marmoratus* Poey.

Cuba.

Rivulus marmoratus Poey, Anales de Hist. Nat. España, IX, 1880, 248, Cuba.

994. *Rivulus isthmensis* Garman.

Costa Rica.

Rivulus isthmensis Garman, Cyprinodonts, 140, 1895, Rio San Jose, Costa Rica.

Genus 305. LUCANIA Girard.

Lucania Girard, Proc. Ac. Nat. Sci. Phila. 1859, 118 (*venusta*); not *Lucanus*, a genus of beetles.

995. *Lucania ommata* (Jordan).

Florida; Indian River; Santa Fe River, Florida, and its tributaries.

Heterandria ommata Jordan, Proc. U. S. Nat. Mus. 1884, 323, Indian River, Florida.

996. *Lucania venusta* (Girard).

Gulf of Mexico; Pensacola; mouth of the Rio Grande.

Limia venusta Girard, U. S. Mex. Bound. Surv., Ichth., 71, 1859, Indianola, Tex.

997. *Lucania parva* (Baird & Girard). *Rainwater-fish*.

Atlantic Coast from Connecticut to Key West.

Cyprinodon parvus Baird & Girard, Ninth Smithsonian. Rept. 1855, 345, Long Island.

Genus 306. GIRARDINICETHYS Bleeker.

Girardinichthys Bleeker, Cyprin., 481, 1860 (*innominatus*).

998. *Girardinichthys innominatus* Bleeker.

City of Mexico.

Girardinichthys innominatus Bleeker, Cyprin., 484, 1860; after Girard.

Genus 307. EMPETRICHTHYS Gilbert.*Empetrichthys* Gilbert, Death Valley Exped., Fishes, 233, 1893 (*merriami*).**999. *Empetrichthys merriami* Gilbert.**

Death Valley in eastern California.

Empetrichthys merriami Gilbert, Fishes of Death Valley Expedition, in North American Fauna No. 7, 234, May 31, 1893, Ash Meadows, Amargosa Desert, on boundary between California and Nevada.**Genus 308. CHARACODON Günther.***Characodon* Günther, Cat., vi, 308, 1866 (*lateralis*).**1000. *Characodon lateralis* Günther.**

Central America.

Characodon lateralis Günther, Cat., vi, 308, 1866, Central America.**1001. *Characodon bilineatus* Bean.**

Rio Lerma, Guanajuato.

Characodon bilineatus Bean, Proc. U. S. Nat. Mus. 1887, 371, Guanajuato.**1002. *Characodon variatus* Bean.**

Tributaries of Rio Lerma, about Guanajuato and Mexico.

Characodon variatus Bean, Proc. U. S. Nat. Mus. 1887, 370, Guanajuato.**1003. *Characodon luitpoldi* Steindachner.**

Lake Pátzcuaro, Mexico.

Characodon luitpoldi Steindachner, Anzeiger der kais. Akad. Wissensch. 1894, 147, Lake Pátzcuaro, Mexico.**1004. *Characodon furcidens* Jordan & Gilbert.**

Cape San Lucas southward to Colima, Mexico.

Characodon furcidens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 354, Cape San Lucas, Lower California.**1005. *Characodon eiseni* Rutter.**

Tepic, Mexico.

Characodon eiseni Rutter, Proc. Cal. Ac. Sci. 1896, 265, Tepic, Jalisco, Mexico.**Genus 309. CYPRINODON Lacépède.***Cyprinodon* Lacépède, Hist. Nat. Poiss., v, 486, 1803 (*variegatus*).**1006. *Cyprinodon variegatus* Lacépède. Sheepshead Minnow.**

Cape Cod to the Rio Grande.

Cyprinodon variegatus Lacépède, Hist. Nat. Poiss., v, 486, 1803, South Carolina.**1006a. *Cyprinodon variegatus riverendi* (Poey).**

Cuba and Florida Keys; Key West.

Trifarcus riverendi Poey, Memorias, II, 306, 1860, Havana.**1007. *Cyprinodon eximius* Girard.**

Chihuahua, Mexico.

Cyprinodon eximius Girard, Proc. Ac. Nat. Sci. Phila. 1859, 158, Chihuahua River, Mexico.**1008. *Cyprinodon bovinus* Baird & Girard.**

Leon Springs, Texas.

Cyprinodon bovinus Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Leon Springs, Texas.**1009. *Cyprinodon macularius* Baird & Girard.**

Southern Nevada to Sonora; Ash Meadows, Nevada; Medbury Springs, Amargosa Desert, California; Saratoga Spring, Death Valley.

Cyprinodon macularius Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Rio San Pedro.

1010. *Cyprinodon baileyi* (Gilbert).
Pahranaagat Valley, Nevada.
Cyprinodon macularius baileyi Gilbert, Death Valley Exped., 233, 1893, Pahranaagat Valley, Nevada.
1011. *Cyprinodon elegans* Baird & Girard.
Rio Grande; Rio de los Conchos, Chihuahua.
Cyprinodon elegans Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 389, Comanche Spring, Texas.
1012. *Cyprinodon martæ* Steindachner.
Santa Marta, coast of Colombia, South America.
Cyprinodon martæ Steindachner, Ichth. Beitr., iv, 61, 1875, Santa Marta, Caribbean Sea.
1013. *Cyprinodon carpio* Günther.
Coasts of Florida.
Cyprinodon carpio Günther, Cat., vi, 306, 1866, America, locality unknown.
1014. *Cyprinodon felicianus* (Poey).
Cuba.
Trifarcus felicianus Poey, Synopsis, 412, 1867, Havana.
1015. *Cyprinodon latifasciatus* Garman.
Parras, Coahuila, Mexico.
Cyprinodon latifasciatus Garman, Bull. Mus. Comp. Zool., viii, No. 3, 92, 1881, Parras, Mexico.
- Genus 310. **JORDANELLA** Goode & Bean.
Jordanella Goode & Bean, Proc. U. S. Nat. Mus., ii, 1879, 177 (*florida*).
1016. *Jordanella floridae* Goode & Bean.
Florida, in San Sebastian, St. Johns, Alligator, Withlacoochee, Hillsboro, Pease, and Myakka rivers; also in Lakes Monroe, Jessup, and Tohopekaliga, Florida.
Jordanella floridae Goode & Bean, Proc. U. S. Nat. Mus., ii, 1879, 117, Lake Monroe, Florida.
- Genus 311. **PSEUDOXIPHOPHORUS** Bleeker.
Pseudoxiphophorus Bleeker, Ichthyol. Ind. Prodr. Cypr., 483, 1860 (*bimaculatus*).
1017. *Pseudoxiphophorus bimaculatus* (Heckel).
Central Mexico; Rio Blanco, Orizaba.
Xiphophorus bimaculatus Heckel, Sitzungsber. Akad. Wiss. Wien 1848, 169, Mexico.
- Genus 312. **GAMBUSIA** Poey.
Gambusia Poey, Memorias de Cuba, i, 382, 1855 (*punctata*).
1018. *Gambusia punctata* Poey. *Guajacon*.
Cuba; Rio Almendares.
Gambusia punctata Poey, Memorias, i, 384, 1855, Cuba.
1019. *Gambusia puncticulata* Poey.
Cuba.
Gambusia puncticulata Poey, Memorias, i, 386, 1855, Cuba.
1020. *Gambusia infans* Woolman.
Rio Lerma, Salamanca, Mexico.
Gambusia infans Woolman, Bull. U. S. Fish Com. 1894, 62, Rio Lerma, Salamanca, Mexico.
1021. *Gambusia affinis* (Baird & Girard). *Top Minnow*.
South Atlantic and Gulf coasts, Delaware to Mexico, and northward to southern Illinois.
Heterandria affinis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Rio Medina and Rio Salado, Texas.

1022. *Gambusia nobilis* (Baird & Girard).
Southern Illinois to the Rio Grande region; Chihuahua River.
Heterandria nobilis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Leona
and Comanche Springs, Texas; Rio Grande del Norte.
1023. *Gambusia nicaraguensis* Günther.
Lakes of Nicaragua.
Gambusia nicaraguensis Günther, Cat., vi, 336, 1866, lakes of Nicaragua.
1024. *Gambusia gracilis* (Heckel).
Orizaba, Mexico.
Xiphophorus gracilis Heckel, Sitzungsber. Akad. Wiss. Wien, i, 1848, 300, Ori-
zaba, Mexico.
1025. *Gambusia episcopi* Steindachner.
Isthmus of Panama at Obispo Station
Gambusia episcopi Steindachner, Ichth. Beitr., vi, 9, 1878, Obispo, near
Panama.
1026. *Gambusia melapleura* (Gosse).
Streams of Jamaica.
Pacilia melapleura Gosse, Sojourn Jamaica, 84, pl. 1, fig. 3, 1851, Jamaica.
1027. *Gambusia tridentiger* Garman.
Isthmus of Panama in fresh water.
Gambusia tridentiger Garman, Cyprinodonts, 89, pl. 4, fig. 10, 1895, Panama.
- Genus 313. *BELONESOX* Kner.
Belonesox Kner, Sitzungsber. Akad. Wiss. Wien 1860, xl, 419 (*belizanus*).
1028. *Belonesox belizanus* Kner.
Southern Mexico, Honduras, and Guatemala.
Belonesox belizanus Kner, Sitzungsber. Akad. Wiss. Wien 1860, 419, with
figure, Balize.
- Genus 314. *ANABLEPS* (Artedi) Bloch.
Anableps (Artedi) Bloch, Ichthyologia, viii, 7, 1795 (*tetrophthalmus*=*ana-
bleps*).
1029. *Anableps dovii* Gill.
Central America, from Chiapas to the Isthmus of Panama.
Anableps dovii Gill, Proc. Ac. Nat. Sci. Phila. 1861, 4, Panama.
- Genus 315. *GOODEA* Jordan.
Goodea Jordan, Proc. U. S. Nat. Mus. 1879, 299 (*atripinnis*).
1030. *Goodea atripinnis* Jordan.
Guanajuato, Mexico.
Goodea atripinnis Jordan, Proc. U. S. Nat. Mus. 1879, 299, Leon in Guana-
juato.
- Genus 316. *PLATYPCÆCILUS* Günther.
Platypercilus Günther, Cat., vi, 350, 1866 (*maculatus*).
1031. *Platypercilus maculatus* Günther.
Mexico.
Platypercilus maculatus Günther, Cat., vi, 350, Mexico.
1032. *Platypercilus mentalis* Gill.
Atlantic side of Isthmus of Panama.
Platypercilus mentalis Gill, Proc. Ac. Nat. Sci. Phila. 1876, 335, Isthmus of
Panama.

Genus 317. GLARIDICHTHYS Garman.

Glaridichthys Garman, American Naturalist, March, 1896, 232 (*uninotatus*); substitute for *Glaridodon*, preoccupied.

1033. *Glaridichthys uninotatus* (Poey).

Cuba.

Girardinus uninotatus Poey, Memorias, 11, 309, 1860, Rio Tacotaco, Cuba.

1034. *Glaridichthys latidens* (Garman).

Chihuahua, Mexico.

Glaridodon latidens Garman, Cyprinodonts, 42, pl. 5, fig. 11, 1895, Chihuahua, Mexico.

Genus 318. GIRARDINUS Poey.

Girardinus Poey, Memorias, 1, 383, 1855 (*metallicus*).

1035. *Girardinus metallicus* Poey.

Cuba.

Girardinus metallicus Poey, Mem. Cuba, 1, 387, lam. 31, fig. 8-11, 1855, Cuba.

1036. *Girardinus denticulatus* Garman.

Streams of Cuba.

Girardinus denticulatus Garman, Cyprinodonts, 47, 1895, Remedios, Cuba.

1037. *Girardinus creolus* Garman.

Cuba.

Girardinus creolus Garman, Cyprinodonts, 47, pl. 5, fig. 9 (teeth), 1895, Cuba.

1038. *Girardinus pleurospilus* Günther.

Guatemala.

Girardinus pleurospilus Günther, Cat., VI, 353, 1866, Lake of Duenas.

Genus 319. PÆCILIA Bloch & Schneider.

Pœcilia Bloch & Schneider, Syst. Ichthyologia, 452, 1801 (*vivipara*).

1039. *Pœcilia versicolor* (Günther).

San Domingo.

Girardinus versicolor Günther, Cat., VI, 352, 1866, San Domingo.

1040. *Pœcilia occidentalis* (Baird & Girard).

Gila Basin, Arizona; Yaqui River, Sonora; Tucson, Arizona.

Heterandria occidentalis Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 390, Rio Santa Cruz, near Tucson, Arizona.

1041. *Pœcilia pœciloides* (De Filippi).

Barbados.

Lebistes pœciloides De Filippi, Arch. Zool. Anat., 1, 1862, 69, Barbados.

1042. *Pœcilia vivipara* Bloch & Schneider.

Brazil; Guiana; Martinique.

Pœcilia vivipara Bloch & Schneider, Syst. Ichthyol., 452, 1801, tab. 86, fig. 2, Surinam.

1043. *Pœcilia butleri* Jordan.

Rio Presidio, near Mazatlan, Mexico.

Pœcilia butleri Jordan, Proc. U. S. Nat. Mus. 1888, 330, Rio Presidio, Mazatlan.

1044. *Pœcilia gillii* (Kner & Steindachner).

Rio Chagres, Panama.

Xiphophorus gillii Kner & Steindachner, Abh. Bayer. Akad. 1864, 28, 1866, Rio Chagres, Panama.

1045. *Pœcilia vittata* Guichenot. *Fanguito*; *Guajica*.

Cuba.

Pœcilia vittata Guichenot, in Ramon de la Sagra, Hist. Nat. Cuba, Poiss., 146, 1850, Cuba.

1046. *Pœcilia mexicana* Steindachner.

Southern Mexico and Central America; Chiapas; Duenas, and Vera Paz.

Pœcilia mexicana Steindachner, Sitzungsber. Akad. Wiss. Wien 1863, 178, southern Mexico.

1047. *Pœcilia thermalis* Steindachner.
Warm Springs, etc., in Central America.
Pœcilia thermalis Steindachner, Sitzungsber. Akad. Wiss. Wien 1863, 181,
Warm Springs, in Central America.
1048. *Pœcilia chisoyensis* Günther.
Rio Chisoy, Vera Paz.
Pœcilia chisoyensis Günther, Cat., vi, 342, Rio Chisoy.
1049. *Pœcilia petenensis* Günther.
Lake Peten, Yucatan.
Pœcilia petenensis Günther, Cat., vi, 342, 1866, Lake Peten, Yucatan.
1050. *Pœcilia sphenops* Cuvier & Valenciennes.
Vera Cruz, Mexico.
Pœcilia sphenops Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 130, 1846,
Vera Cruz, Mexico.
1051. *Pœcilia dovii* Günther.
Mexico and Guatemala.
Pœcilia dovii Günther, Cat., vi, 344, 1866, Lake Nicaragua; Lake Amatitlan.
1052. *Pœcilia couchiana* (Girard).
Rio San Juan at Cadereita and Monterey, and Nuevo Leon, Mexico.
Limia couchiana Girard, Proc. Ac. Nat. Sci. Phila. 1859, 116, Rio San Juan,
Mexico.
1053. *Pœcilia boucardi* Steindachner.
Colon.
Pœcilia boucardi Steindachner, Ichth. Beitr., vi, 8, 1878, Colon or Aspinwall.
1054. *Pœcilia reticulata* Peters.
Brooks on the island of Curaçao, Caribbean Sea and adjacent coast.
Pœcilia reticulata Peters, Berliner Monatsber. for 1859 (1860), 412, Rio Guayra,
Caracas.
1055. *Pœcilia dominicensis* Cuvier & Valenciennes.
San Domingo and Barbados.
Pœcilia dominicensis Cuvier & Valenciennes, Hist. Nat. Poiss., xviii, 131, pl.
525, 1846, San Domingo.
1056. *Pœcilia spilurus* Günther.
Central America.
Pœcilia spilurus Günther, Cat., vi, 345, 1866, Central America.
1057. *Pœcilia elongata* Günther.
Panama.
Pœcilia elongata Günther, Cat., vi, 342, 1866, Panama.
1058. *Pœcilia presidionis* Jordan & Culver.
Rio Presidio, Sinaloa, Mexico.
Pœcilia presidionis Jordan & Culver, in Jordan, Fishes of Sinaloa, 413, pl. 29,
1895, Rio Presidio, Sinaloa, Mexico.
- Genus 320. **MOLLINIENSIA** Le Sueur.
Mollinisia Le Sueur, Jour. Ac. Nat. Sci. Phila., ii, 1821, 3 (*latipinna*).
1059. *Mollinisia jonesi* Günther.
Lake Alcohuaca, Huamantla, Mexico.
Mollinisia jonesi Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370, Huamantla.
1060. *Mollinisia formosa* (Girard).
Palo Alto, Mexico.
Limia formosa Girard, Proc. Ac. Nat. Sci. Phila. 1859, 115, Palo Alto, Mexico
1061. *Mollinisia latipinna* LeSueur.
South Carolina to northern Mexico.
Mollinisia latipinna LeSueur, Jour. Ac. Nat. Sci. Phila., ii, 1821, 3, New
Orleans,

1062. *Mollienisia petenensis* Günther.
Lake Peten, Guatemala.
Mollienisia petenensis Günther, Cat., vi, 348, 1866, Lake Peten, Guatemala.
- Genus 321. **XIPHOPHORUS** Heckel.
Xiphophorus Heckel, Sitzb. Akad. Wiss. Wien 1848, i, pl. 3, 163 (*helleri*).
1063. *Xiphophorus helleri* Heckel.
Rivers of southern Mexico and Central America.
Xiphophorus helleri Heckel, Sitzb. Akad. Wiss. Wien i, 1848, 163, Rio Chisoy.
1064. *Xiphophorus guntheri* Jordan & Evermann.
Rio Chisoy, basin of Rio Usunacinta, Guatemala.
Xiphophorus guntheri Jordan & Evermann, Fishes North and Middle America, 702, 1896, Rio Chisoy, Guatemala.
- Family **XCIII. AMBLYOPSIDÆ. The Blind Fishes.**
- Genus 322. **CHOLOGASTER** Agassiz.
Chologaster Agassiz, Am. Jour. Sci. Arts, xvi, 1853, 135 (*cornutus*).
1065. *Chologaster cornutus* Agassiz. *Fish of the Dismal Swamp.*
Southern States; from the Dismal Swamp to the Okefinokee Swamp.
Chologaster cornutus Agassiz, Am. Jour. Sci. Arts 1853, 135, ditch in a rice field at Waccamaw, South Carolina.
1066. *Chologaster agassizii* Putnam.
Tennessee and Kentucky.
Chologaster agassizii Putnam, Am. Nat. 1872, 30, fig., from a well at Lebanon, Tennessee.
1067. *Chologaster papilliferus* Forbes.
Cave spring, Union County, Illinois.
Chologaster papilliferus Forbes, Am. Nat., January, 1882, 1, cave spring in Union County, southern Illinois.
- Genus 323. **TYPHLICHTHYS** Girard.
Typhlichthys Girard, Proc. Ac. Nat. Sci. Phila. 1859, 62 (*subterraneus*).
1068. *Typhlichthys subterraneus* Girard. *Small Blindfish.*
Subterranean streams in limestone regions of Kentucky, Tennessee, Missouri, and Alabama.
Typhlichthys subterraneus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 62, well at Bowling Green, Kentucky.
- Genus 324. **AMBLYOPSIS** DeKay.
Amblyopsis DeKay, New York Fauna: Fishes, 187, 1842 (*spelæus*).
1069. *Amblyopsis spelæus* DeKay. *Mammoth Cave Blindfish.*
Subterranean streams of the limestone regions of Kentucky and Indiana; River Styx, Mammoth Cave.
Amblyopsis spelæus DeKay, New York Fauna: Fishes, 187, 1842, Mammoth Cave, Kentucky.
- Order **Y. SYNENTOGNATHI. The Synentognathous Fishes.**
- Family **XCIV. ESOCIDÆ. The Needle-Fishes.**
- Genus 325. **TYLOSURUS** Cocco.
Tylosurus Cocco, "Lettere in Giornale Sci. Sicilia, xvii," 18, 1829 (*cantraini* = *imperialis* = *acus*).
1070. *Tylosurus notatus* (Poey). *Needle-fish; Long-jaws.*
West Indies, north to Pensacola, common about Key West.
Belone notata Poey, Memorias, ii, 293, 1860, Havana.

1071. *Tylosurus scapularis* Jordan & Gilbert.
Panama.
Tylosurus scapularis Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 307, Panama.
1072. *Tylosurus timucu* (Walbaum). *Timucu*; *Peixe Agulka*.
Florida Keys to Brazil.
Esox timucu Walbaum, Artedi Pisc., III, 88, 1792, Brazil; after *Timucu* of Maregrave.
1073. *Tylosurus euryops* Bean & Dresel. *Long-jaw*.
Cuba and Jamaica.
Tylosurus euryops Bean & Dresel, Proc. U. S. Nat. Mus. 1884, 168, Jamaica.
1074. *Tylosurus diplotænia* (Cope).
St. Martins Island, West Indies.
Belone diplotænia Cope, Trans. Am. Philos. Soc. 1871, 481, St. Martins.
1075. *Tylosurus microps* (Günther).
Coast of Guiana.
Belone microps Günther, Cat., VI, 237, 1866, Surinam, British Guiana.
1076. *Tylosurus angusticeps* (Günther).
Coast of Ecuador.
Belone angusticeps Günther, Cat., VI, 238, 1866, Ecuador.
1077. *Tylosurus ardeola* (Cuvier & Valenciennes)
West Indies.
Belone ardeola Cuvier & Valenciennes, Hist. Nat. Poiss., 425, 1846, Martinique.
1078. *Tylosurus stolzmanni* (Steindachner).
Pacific Coast of America from Guaymas and Mazatlan to Peru.
Belone stolzmanni Steindachner, Ichth. Beitr., VII, 21, 1878, Tumbez, Peru.
1079. *Tylosurus exilis* (Girard). *Needle-fish*.
Coast of southern California, from Point Conception southward to Cerros Island.
Belone exilis Girard, Proc. Ac. Nat. Sci. Phila. 1854, 149, San Diego.
1080. *Tylosurus marinus* (Walbaum). *Garfish*; *Billfish*; *Needle-fish*; *Agujon*.
Coast of Maine to Texas; Atlantic and Gulf coasts.
Esox marinus Walbaum, Artedi Piscium, III, 88, 1792; after Schöpf.
1081. *Tylosurus almeida* (Quoy & Gaimard). *Timucu*.
Surinam to Rio Janeiro and northward in the West Indies.
Belone almeida Quoy & Gaimard, Voyage de l'Uranie, Zool., 226, 1824, Brazil.
1082. *Tylosurus fodiator* Jordan & Gilbert. *Agujon*.
Pacific Coast of Mexico.
Tylosurus fodiator Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 459, Mazatlan.
1083. *Tylosurus raphidoma* (Ranzani). *Houndfish*; *Aguja de Costa*; *Guardfish*.
West Indies, Florida Keys to Brazil; Ocean City, New Jersey.
Belone raphidoma Ranzani, Nov. Com. Ac. Nat. Sci. Inst. Bonon., V, 1842, 359, pl. 37, fig. 1, Brazil.
1084. *Tylosurus galeatus* (Cuvier & Valenciennes).
Cayenne, French Guiana.
Belone galeata Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 429, 1846, Cayenne, French Guiana.
1085. *Tylosurus pacificus* (Steindachner).
Acapulco to Panama.
Belone pacifica Steindachner, Ichth. Beitr., III, 65, 1875, Panama.
1086. *Tylosurus acus* (Lacépède). *Houndfish*; *Agujon*.
West Indies and occasionally northward.
Sphyrapna acus Lacépède, Hist. Nat. Poiss., V, 6, pl. 1, fig. 3, 1803, Martinique.

1087. *Tylosurus caribbæus* (LeSueur).
West Indies.
Belone caribba LeSueur, Jour. Ac. Nat. Sci. Phila., II, 1821, 127, Caribbean Sea.
- Genus 326. **ATHLENNES** Jordan & Fordice.
Athlennes Jordan & Fordice, Proc. U. S. Nat. Mus. 1886, 342 (*hians*).
1088. *Athlennes hians* (Cuvier & Valenciennes).
West Indies, from Florida to Brazil; Acapulco.
Belone hians Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 432, 1846, Havana; Bahia.
- Family XCV. **HEMIRAMPHIDÆ**. The Balaos.
- Genus 327. **CHRIODORUS** Goode & Bean. *Hardheads*.
Chriodorus Goode & Bean, Proc. U. S. Nat. Mus. 1882, 432 (*atherinoides*).
1089. *Chriodorus atherinoides* Goode & Bean. *Hardhead*.
Florida Keys.
Chriodorus atherinoides Goode & Bean, Proc. U. S. Nat. Mus. 1882, 432, Key West, Florida.
- Genus 328. **HYPORHAMPHUS** Gill. *Halfbeaks*.
Hyporhamphus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 131 (*tricuspidatus* = *unifasciatus*.)
1090. *Hyporhamphus unifasciatus* (Ranzani). *Escribano*.
Key West to Rio Janeiro; Panama; East Indies or Africa.
Hemiramphus unifasciatus Ranzani, Nov. Comn. Ac. Sci. Bonou., v, 1842, 326, Brazil.
1091. *Hyporhamphus roberti* (Cuvier & Valenciennes). *Common Halfbeak; Pajarito*.
Coasts of America; Newport, Rhode Island; Longport and Beesley Point, New Jersey; Fortress Monroe, Virginia; Beaufort, North Carolina; Charleston; Pensacola; San Sebastian River; Cedar Keys; New Orleans; Mazatlan; Guaymas; Cape San Lucas; La Paz; Panama; Chatham and Indefatigable Islands of the Galapagos.
Hemiramphus roberti Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 24, 1846, Cayenne.
1092. *Hyporhamphus rosæ* (Jordan & Gilbert).
Southern California and southward.
Hemiramphus rosæ Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 335, San Diego, California.
- Genus 329. **HEMIRAMPHUS** Cuvier.
Hemiramphus Cuvier, Règne Animal, ed. I, II, 1817 (*brasiliensis*).
1093. *Hemiramphus brasiliensis* (Linnaeus). *Balaó; Escribano*.
West Indies; Key West southward to Bahia.
Esox brasiliensis Linnaeus, Syst. Nat., ed. X, 314, 1758, Jamaica; after Browne; the *Timucu* of Muregrave wrongly included in the synonymy; Bloch, Ichth., 391, 1801, corrected synonymy and description.
1094. *Hemiramphus balao* LeSueur. *Balaó; Piper*.
Cuba; also known from Panama.
Hemiramphus balao LeSueur, Jour. Ac. Nat. Sci. Phila., II, 1823, 136, Lesser Antilles.
- Genus 330. **EULEPTORHAMPHUS** Gill.
Euleptorhamphus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 131 (*brevoorti*).
1095. *Euleptorhamphus velox* Poey.
West Indies northward in the Gulf Stream to Massachusetts.
Euleptorhamphus velox Poey, Synopsis, 383, 1867, Cuba.

Family **XCVI. SCOMBERESOCIDÆ. The Sauries.**Genus 331. **SCOMBERESOX** Lacépède. *Sauries.**Scomberesox* Lacépède, Hist. Nat. Poiss., v, 344, 1803 (*camperii*).1096. **Scomberesox saurus** (Walbaum). *Saury; Skipper; Billfish.*

Atlantic Ocean, north of Cape Cod and France.

Esox saurus Walbaum, Artedi Pisc., III, 93, 1792, Cornwall; after the *Saury*
Pike of Pennant.Genus 332. **COLOLABIS** Gill.*Cololabis* Gill, Proc. U. S. Nat. Mus. 1896, 176 (*brevirostris*).1097. **Cololabis brevirostris** (Peters).

Coast of California; Tomales Bay and San Francisco.

Scomberesox brevirostris Peters, Monatsberichte Akad. Wiss. Berl., July, 1866,
521, Tomales Bay, California.Family **XCVII. EXOCÆTIDÆ. The Flying-Fishes.**Genus 333. **FODIATOR** Jordan & Meek.*Fodiator* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 45 (*acutus*).1098. **Fodiator acutus** (Cuvier & Valenciennes). *Sharp-nosed Flying-fish.*Both shores of Tropical America; Gulf of California; San Luis Gonzales;
Panama; Nice.*Exocætus acutus* Cuvier & Valenciennes, Hist. Nat. Poiss., 125, 1849, Surinam;
Nice.Genus 334. **PAREXOCÆTUS** Bleeker.*Parexocætus* Bleeker, Nederl. Tydskr. Dierk., III, 105, 1865 (*mento*).1099. **Parexocætus mesogaster** (Bloch).Tropical seas; East Indies and West Indies; Hawaiian Islands; Newport,
Rhode Island; Carolina coast.*Exocætus mesogaster* Bloch, Ichth., pl. 399, 1795, Martinique; on a drawing
by Plumier, in which the pectorals and ventrals are much too long.Genus 335. **EXOCÆTUS** (Artedi) Linnæus. *Flying-fishes.**Exocætus* Artedi (Genera Piscium, 6, 1738), Linnæus, Syst. Nat., ed. x, 316,
1758 (*volitans*).1100. **Exocætus volitans** Linnæus.

Warm seas; Newfoundland; England; Hawaiian Islands.

Exocætus volitans Linnæus, Syst. Nat., ed. x, 316, 1758.Genus 336. **EXONAUTES** Jordan & Evermann.*Exonantes*, new genus (*exsiliens*).1101. **Exonantes exsiliens** (P. L. S. Müller).

Open seas.

Exocætus exsiliens Philip Ludwig Stadius Müller, Nuremberg ed. Linnæus
Syst. Nat., 209, 1776, Carolina.1102. **Exonantes rondeletii** (Cuvier & Valenciennes).

Tropical seas; Florida; France; Acapulco; West Indies; southern Europe.

Exocætus rondeletii Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 115, 1846,
Naples; Sicily; Canaries.1103. **Exonantes vinciguerræ** (Jordan & Meek).Open Atlantic; southern Europe; Newfoundland; St. Martins; Gulf of
Mexico.*Exocætus vinciguerræ* Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 56, open
sea off Newfoundland, 46° N., 61° W.

1104. *Exonautes specularis* (Cuvier & Valenciennes).
Open seas; Atlantic Coast; Grand Banks; southern Europe; Hawaiian Islands.
Exocetus specularis Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 93, 1846, Friendly Islands, etc.
1105. *Exonautes rufipinnis* (Cuvier & Valenciennes).
Tropical America; Payta; Panama; Tobasco; Barbados.
Exocetus rufipinnis Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 99, 1846, Payta, Peru.
- Genus 337. **CYPSILURUS** Swainson.
Cypsilurus Swainson, Class. Fishes, etc., ii, 296, 1839 (*nuttalli*).
1106. *Cypsilurus heterurus* (Rafinesque).
Atlantic Ocean; Newfoundland; England.
Exocetus heterurus Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 58, 1810, Palermo.
1107. *Cypsilurus lutkeni* (Jordan & Evermann).
Cape San Antonio.
Exocetus lutkeni Jordan & Evermann, Fishes North and Middle America, 736, 1896, Cape San Antonio.
1108. *Cypsilurus furcatus* (Mitchill).
Warm seas; north to Cape Cod and to the Mediterranean.
Exocetus furcatus Mitchill, Trans. Lit. Phil. Soc. N. Y., i, 1815, 149, New York.
1109. *Cypsilurus nigricans* (Bennett).
Tropical seas; north to Cuba, Central America, and France.
Exocetus nigricans Bennett, Whaling Voyage, ii, 287, 1840, taken in both the Atlantic and Pacific oceans, in latitude 5° N.
1110. *Cypsilurus xenopterus* (Gilbert).
Clarion Island, one of the Revillagigedo Islands.
Exocetus xenopterus Gilbert, Proc. U. S. Nat. Mus. 1890, 58, Clarion Island.
1111. *Cypsilurus lineatus* (Cuvier & Valenciennes).
Tropical Atlantic; Korea; the Canaries; Madeira and Bermuda.
Exocetus lineatus Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 92, 1836, Korea; Canaries.
1112. *Cypsilurus cyanopterus* (Cuvier & Valenciennes).
Coasts of Brazil and Caribbean Sea.
Exocetus cyanopterus Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 98, 1846, Bahia; Rio de Janeiro.
1113. *Cypsilurus bahiensis* (Ranzani).
Tropical seas; north to Cuba and the Galapagos Islands.
Exocetus bahiensis Ranzani, Nov. Com. Ac. Sci. Inst. Bonon., v, 1842, 362, pl. 38, Bahia.
1114. *Cypsilurus californicus* (Cooper). *Great Flying-fish; Volador.*
Southern California; Point Conception to Cape San Lucas; Santa Barbara Islands.
Exocetus californicus Cooper, Proc. Cal. Ac. Sci., iii, 1864, 93, fig. 20, Santa Catalina Island.
1115. *Cypsilurus callopterus* (Günther).
Panama.
Exocetus callopterus Günther, Cat., vi, 292, 1866, Panama.
1116. *Cypsilurus gibbifrons* (Cuvier & Valenciennes).
Atlantic Ocean; Newport, Rhode Island.
Exocetus gibbifrons Cuvier & Valenciennes, Hist. Nat. Poiss., xix, 118, 1846, Atlantic.

Order Z. HEMIBRANCHII. The Hemibranchs.

Family XCVIII. GASTEROSTEIDÆ. The Sticklebacks.

Genus 338. EUCALIA Jordan.

Eucalia Jordan, Man. Vert., ed. 1, 248, 1876 (*inconstans*).

1117. *Eucalia inconstans* (Kirtland). *Brook Stickleback*.

New York to Kansas and northward to the Saskatchewan; Great Lakes region; central Ohio and Illinois.

Gasterosteus inconstans Kirtland, Bost. Jour. Nat. Hist., III, 1841, 273, Trumbull County, Ohio.

1117a. *Eucalia inconstans cayuga* Jordan.

Ithaca and Syracuse, New York.

Eucalia inconstans cayuga Jordan, Man. Vert., ed. 1, 249, 1876, Cayuga Lake, Ithaca, New York.

1117b. *Eucalia inconstans pygmæa* (Agassiz).

Lake Superior.

Gasterosteus pygmæus Agassiz, Lake Superior, 314, 1850, Lake Superior.

Genus 339. PYGOSTEUS Brevoort.

Pygosteus Brevoort, in Gill, Cat. Fish. East Coast N. A., 39, 1861, name only.

1118. *Pygosteus pungitius* (Linnaeus). *Nine-spined Stickleback*.

Northern Europe; Atlantic coasts of America; Long Island to the Arctic Sea; tributaries of the Great Lakes.

Gasterosteus pungitius Linnaeus, Syst. Nat., ed. x, 1758, 296; after *Gasterosteus aculeis decem* Artedi.

1118a. *Pygosteus pungitius brachypoda* (Bean).

Mountain lakes and streams about Baffin Bay.

Gasterosteus pungitius brachypoda Bean, Bull. U. S. Nat. Mus., xv, 1879, 129, Oosooadlin, Baffin Bay.

Genus 340. GASTEROSTEUS (Artedi) Linnaeus. *Sticklebacks*.

Gasterosteus (Artedi) Linnaeus, Syst. Nat., x, 489, 1758 (*aculeatus*).

1119. *Gasterosteus aculeatus* Linnaeus. *European Stickleback*; *Burnstickle*.

Coasts and streams of northern Europe; Greenland.

Gasterosteus aculeatus Linnaeus, Syst. Nat., ed. x, 1, 489, 1758, Europe.

1120. *Gasterosteus bispinosus* Walbaum. *Common Eastern Stickleback*.

Labrador to New Jersey; New England.

Gasterosteus bispinosus Walbaum, Artedi, Pisc., 450, 1792, after Pennant; said to be "New York," but more likely Hudson Bay.

1120a. *Gasterosteus bispinosus atkinsi* Bean.

Quebec; Maine.

Gasterosteus atkinsi Bean, Proc. U. S. Nat. Mus. 1879, 67, Schoodie Lakes, Maine.

1120b. *Gasterosteus bispinosus cuvieri* Girard.

East coast of North America from Labrador to Massachusetts.

Gasterosteus cuvieri Girard, in Storer's Fishes of Nova Scotia and Labrador, 254, pl. 7, fig. 1, 1849, Bras d'Or, Red Bay, Labrador.

1121. *Gasterosteus gladiunculus* Kendall.

Off coast of Maine, in floating fucus and other seaweed.

Gasterosteus gladiunculus Kendall, Proc. U. S. Nat. Mus., xviii, 1896, 623, off coast of Maine, near Seguin Island.

1122. *Gasterosteus cataphractus* (Pallas). *Alaska Stickleback*; *Salmon-killer*.

San Francisco to Alaska and Kamchatka.

Gasteracanthus cataphractus Pallas, Mém. Acad. Petersb., III, 325, 1811, Kamchatka.

- 1123. *Gasterosteus williamsoni* Girard.**
Streams of southern California from Ventura County to Santa Ana River; Williamson Pass near Saugus, Ventura County; San Bernardino; and Santa Ana River at Colton.
Gasterosteus williamsoni Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, Williamson Pass, California.

- 1123a. *Gasterosteus williamsoni microcephalus* (Girard).** *California Stickleback.*
Pacific Coast of the United States in streams and brackish water; Alaska to Todos Santos, Lower California.
Gasterosteus microcephalus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, Four Creeks (Kaweah River), tributary to Tule Lake (Tulare Lake), San Joaquin Valley, California.

Genus 341. APELTES DeKay.

Apelteus DeKay, New York Fauna: Fishes, 67, 1842 (*quadracus*).

- 1124. *Apeltes quadracus* (Mitchill).**
Maine to New Jersey in salt water.
Gasterosteus quadracus Mitchill, Trans. Lit. and Phil. Soc., 1, 1815, 436, New York.

Family XCIX. AULORHYNCHIDÆ.

Genus 342. AULORHYNCHUS Gill.

Aulorhynchus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 169 (*flavidus*).

- 1125. *Aulorhynchus flavidus* Gill.**
Coast of California from San Nicolas Island and Monterey northward to Sitka, Alaska.
Aulorhynchus flavidus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 169, coast of Washington.

Family C. AULOSTOMIDÆ. The Trumpet-Fishes.

Genus 343. AULOSTOMUS Lacépède.

Aulostomus Lacépède, Hist. Nat. Poiss., v, 357, 1803 (*chinensis*).

- 1126. *Aulostomus maculatus* Valenciennes.** *Trompetero.*
Caribbean Sea, north to southern Florida.
Aulostoma maculatum Valenciennes, in Cuvier, Illust. Poiss., pl. 92, fig. 2, about 1845.
- 1127. *Aulostomus cinereus* Poey**
Cuba.
Aulostoma cinereum Poey, Synopsis, 386, 1867, Cuba.

Family CI. FISTULARIIDÆ. The Cornet-Fishes.

Genus 344. FISTULARIA Linnæus.

Fistularia Linnæus, Syst. Nat., ed. x, 312, 1758 (*tabacaria*).

- 1128. *Fistularia tabacaria* Linnæus.** *Trumpet-fish; Trompetero.*
West Indies and neighboring seas; northward to Carolina and Florida, and occasionally to Long Island.
Fistularia tabacaria Linnæus, Syst. Nat., ed. x, 312, 1758, Tropical America.
- 1129. *Fistularia depressa* Günther.** *Corneta.*
East Indies, Australia, China, Pauama, and Lower California.
Fistularia depressa Günther, Report on the Shore Fishes, Challenger Report, 69, pl. 32, Fig. D, 1880.
- 1130. *Fistularia petimba* Lacépède.**
Western Pacific; Bermudas; Cuba.
Fistularia petimba Lacépède, Hist. Nat. Poiss., v, 349, 1803, New Britain, Isle of Reunion, equatorial Pacific.

Family CII. MACRORHAMPHOSIDÆ. The Snipe-Fishes.

Genus 345. MACRORHAMPHOSUS Lacépède. *Snipe-fishes.**Macrorhamphosus* Lacépède, Hist. Nat. Poiss., v, 136, 1803 (*cornutus* = *scolopax*).1131. *Macrorhamphosus scolopax* (Linnaeus). *Snipe-fish; Trumpet-fish; Bellows-fish.*

Mediterranean Sea; northward to southern England; accidental on our North Atlantic Coast.

Balistes scolopax Linnaeus, Syst. Nat., ed. x, 329, 1758, Mediterranean.

Order AA. LOPHOBRANCHII. The Lophobranchs.

Suborder SYNGNATHI.

Family CIII. SYNGNATHIDÆ. The Pipefishes.

Genus 346. SIPHOSTOMA Rafinesque.

Siphostoma Rafinesque, Caratteri Nuovi Generi, 18, 1810 (*pelagicus*).

Subgenus DERMATOSTETHUS Gill.

Dermatostethus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 283 (*punctipinnis*).1132. *Siphostoma punctipinne* (Gill).

San Diego, California.

Dermatostethus punctipinnis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 283, San Diego, California.

Subgenus SIPHOSTOMA Rafinesque.

1133. *Siphostoma carinatum* Gilbert.

Gulf of California.

Siphostoma carinatum Gilbert, Proc. U. S. Nat. Mus. 1891, 547, Gulf of California, 31° 31' N., 114° 19' W., at Albatross Stations 3027 and 3028.1134. *Siphostoma californiense* (Storer).

Santa Barbara and Monterey; from Santa Barbara northward.

Syngnathus californiensis Storer, Proc. Bost. Soc. Nat. Hist., II, 1845, 73, California.1135. *Siphostoma griseolineatum* (Ayres).

Pacific Coast of the United States, from Puget Sound to Monterey.

Syngnathus griseolineatus Ayres, Proc. Cal. Ac. Sci. 1854, 14, San Francisco Bay.1136. *Siphostoma leptorhynchum* (Girard).

West coast of America from San Francisco to San Diego.

Syngnathus leptorhynchus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 156, San Diego, California.1137. *Siphostoma fistulatum* (Peters).

Puerto Cabello, near Aspinwall.

Syngnathus fistulatus Peters, Monatsber. Ak. Wiss. Berk., 456, 1868, Puerto Cabello, near Aspinwall.1138. *Siphostoma barbaræ* Swain.

California coast, at Santa Barbara.

Siphostoma barbaræ Swain, Proc. U. S. Nat. Mus. 1884, 238, Santa Barbara, California.1139. *Siphostoma mackayi* Swain & Meek.

Key West, Florida, and south to Yucatan.

Siphostoma mackayi Swain & Meek, Proc. U. S. Nat. Mus. 1884, 239, Key West, Florida.

1140. *Siphostoma floridae* Jordan & Gilbert.
Beaufort, North Carolina, to Corpus Christi, Texas.
Siphostoma floridae Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 263, Pensacola, Florida.
1141. *Siphostoma poeyi* Jordan & Evermann.
Havana.
Siphostoma poeyi Jordan & Evermann, Fishes North and Middle America, 766, 1896, Havana, Cuba.
1142. *Siphostoma auliscus* Swain.
Southern California.
Siphostoma auliscus Swain, Proc. U. S. Nat. Mus. 1882, 310, Santa Barbara and San Diego, California.
1143. *Siphostoma pelagicum* (Osbeck).
Tropical parts of the Atlantic; north to the West Indies and the Mediterranean.
Syngnathus pelagicus Osbeck, Dagbök Resa Ostind., 305, 1757, open sea in floating seaweed.
1144. *Siphostoma rousseau* (Kaup).
West Indies; known from Jamaica, St. Lucia, and Martinique.
Syngnathus rousseau Kaup, Lophobranchii, 40, 1856, Martinique.
1145. *Siphostoma elucens* (Poey).
Cuba.
Syngnathus elucens Poey, Synopsis, 443, 1867, Havana, Cuba.
1146. *Siphostoma jonesi* (Günther).
Bermuda Islands.
Syngnathus jonesi Günther, Ann. and Mag. Nat. Hist., series 4, xiv, 1874, 8, Bermudas.
1147. *Siphostoma robertsi* Jordan & Rutter.
Known only from Jamaica.
Siphostoma robertsi Jordan & Rutter, Fishes of Jamaica, in Proc. Ac. Nat. Sci. Phila. 1896, Jamaica.
1148. *Siphostoma brachycephalum* (Poey).
Cuba.
Syngnathus brachycephalus Poey, Synopsis, 444, 1867, Havana, Cuba.
1149. *Siphostoma affine* (Günther).
Gulf of Mexico, on coast of Louisiana.
Syngnathus affinis Günther, Cat., VIII, 163, 1870, Louisiana.
1150. *Siphostoma scovelli* Evermann & Kendall.
Coast of Texas and both coasts of Florida.
Siphostoma scovelli Evermann & Kendall, Proc. U. S. Nat. Mus., xviii, 1895 (1896), 109, Corpus Christi, Texas.
1151. *Siphostoma bairdianum* (Duméril).
West coast of Mexico, near California.
Syngnathus bairdianus Duméril, Hist. Nat. Poiss., II, 574, 1870, "Coast of Mexico, near California."
1152. *Siphostoma louisianæ* (Günther).
Atlantic and Gulf coasts of the United States, North Carolina to Texas and south to Key West.
Syngnathus louisianæ Günther, Cat., VIII, 160, 1870, New Orleans, Louisiana.
1153. *Siphostoma fuscum* (Storer). *Common Pipefish*.
Atlantic Coast of United States from Maine to Virginia.
Syngnathus fuscus Storer, Rept. Fish. Mass., 162, 1839, Nahant, Massachusetts.

1154. *Siphostoma starksi* Jordan & Culver.
Rio Presidio, Sinaloa, Mexico.
Siphostoma starksi Jordan & Culver, in Jordan, Fishes of Sinaloa, 416,
1895, Rio Presidio, Mazatlan, Mexico.
1155. *Siphostoma arctum* Jenkins & Evermann.
Gulf of California; Guaymas.
Siphostoma arctum Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 137, Bay
of Guaymas, Sonora, Mexico.
1156. *Siphostoma sinaloæ* Jordan & Starks.
Pacific coast of Mexico.
Siphostoma sinaloæ Jordan & Starks, Proc. Cal. Ac. Sci. 1896, Mazatlan,
Mexico.
1157. *Siphostoma crinigerum* Bean & Dresel.
Pensacola and Key West, to Abrolhos Reef, Brazil.
Siphostoma crinigerum Bean & Dresel, Proc. Biological Soc. Washington, 11,
1884, 99, Pensacola, Florida.
- Subgenus **CORYTHROICHTHYS** Kaup.
Corythoichthys Kaup, Lophobranchii, 25, 1856 (*albirostris*); not of Linnaeus
as restricted by Rafinesque.
1158. *Siphostoma albirostre* (Heckel).
West Indies; north to Pensacola and Key West; south to Bahia.
Corythoichthys albirostris Heckel, in Kaup, Lophobranchii, 25, 1856, Mexico;
Bahia.
1159. *Siphostoma cayennense* (Sauvage).
Cayenne.
Syngnathus cayennensis Sauvage, Bull. Soc. Philom. Paris, 1882, 176, Cayenne.
- Genus 347. **DOBYRHAMPHUS** Kaup.
Doryrhamphus Kaup, Lophobranchii, 54, 1856 (*excisus*).
- Subgenus **DORYICHTHYS** Kaup.
Doryichthys Kaup, Lophobranchii, 56, 1856 (*bilineatus*).
1160. *Doryrhamphus lineatus* (Valenciennes).
Tropical parts of Atlantic from Cuba to Africa.
Doryichthys lineatus Valenciennes, in Kaup, Lophobranchii, 59, 1856, Bahia,
Mexico, and Guadeloupe.
- Subgenus **DOBYRHAMPHUS** Kaup.
1161. *Doryrhamphus californiensis* Gill.
Gulf of California.
Doryrhamphus californiensis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 284, Cape
San Lucas.
- Genus 348. **SYNGNATHUS** Linnæus.
Syngnathus Linnæus, Artedi Genera Piscium, 1738 (*acus*, *typhle*, etc.)
- Subgenus **SYNGNATHUS** Linnæus.
1162. *Syngnathus æquoreum* Linnæus. *Ocean Pipefish*.
Northern and western coasts of Europe; open Atlantic; Gulf of Mexico.
Syngnathus æquoreus Linnæus, Syst. Nat., ed. X, 417, 1758, open sea.
- Genus 349. **OSPHYOLAX** Cope.
Ospbyolax Cope, Proc. Ac. Nat. Sci. Phila. 1875, 450 (*pellucidus*).
1163. *Ospbyolax pellucidus* Cope.
Ospbyolax pellucidus Cope, Proc. Ac. Nat. Sci. Phila. 1875, 450, pl. 25, figs.
1 to 4, open Atlantic Ocean.

Family CIV. HIPPOCAMPIDÆ. The Sea-Horses.

Genus 350. HIPPOCAMPUS Rafinesque.

Hippocampus Rafinesque, Indico d'Ittiologia Siciliana, 37, 1810 (*hippocampus*).

- 1164.
- Hippocampus ingens*
- Girard.
- Caballito del Mar*
- .

Pacific Coast from San Diego to Mazatlan.

Hippocampus ingens Girard, Pac. R. R. Surv., Fishes, 342, 1858, San Diego, Cal.

- 1165.
- Hippocampus hudsonius*
- DeKay.
- Common American Sea-horse*
- .

West Coast of northern Mexico, Mazatlan to San Diego, California.

Atlantic Coast of United States, from Cape Cod southward to Charleston.

Hippocampus hudsonius DeKay, N. Y. Fauna: Fishes, 322, pl. 53, fig. 171, 1842, New York.

- 1166.
- Hippocampus punctulatus*
- Guichenot.
- Caballito del Mar*
- ;
- Sea-horse*
- .

Tropical parts of the Atlantic; common in the West Indies, Brazil, and western Africa; Gulf Stream; Beaufort, North Carolina.

Hippocampus punctulatus Guichenot, in Sagra, Cuba, Poiss., 174, pl. 5, fig. 2, 1850, Cuba.

- 1167.
- Hippocampus stylifer*
- Jordan & Gilbert.

Coasts of Florida; "Snapper Banks" off Pensacola and Tampa; Gulf Stream.

Hippocampus stylifer Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 265, "Snapper Banks," Gulf of Mexico.

- 1168.
- Hippocampus zosteræ*
- Jordan & Gilbert.

Pensacola Bay, Florida.

Hippocampus zosteræ Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 265, Grand Lagoon, Pensacola, Florida.

Order BB. ACANTHOPTERI. The Spiny-rayed Fishes.

Suborder SALMOPERCÆ. The Trout Perches.

Family CV. PERCOPSIDÆ. The Sand-Rollers.

Genus 351. PERCOPSIS Agassiz.

Percopsis Agassiz, Lake Superior, 284, 1850 (*guttatus*).

- 1169.
- Percopsis guttatus*
- Agassiz.
- Sand-Roller*
- ;
- Trout Perch*
- .

Lake Champlain and Delaware River to Ohio River, Kansas, and northward; Great Lakes; Hudson Bay; Red River of the North; Saskatchewan River.

Percopsis guttatus Agassiz, Lake Superior, 286, 1850, Lake Superior.

Genus 352. COLUMBIA Eigenmann & Eigenmann.

Columbia Eigenmann & Eigenmann, Science, October 21, 1892, 233 (*transmontana*).

- 1170.
- Columbia transmontana*
- Eigenmann & Eigenmann.

Columbia River basin; Umatilla and Wallula rivers.

Columbia transmontana Eigenmann & Eigenmann, Science, 1892, 233, mouth of Umatilla River, Oregon.

Suborder XENARCHI.

Family CVI. APHREDODERIDÆ. The Pirate Perches.

Genus 353. APHREDODERUS LeSueur. *Pirate Perches*.*Aphredoderus LeSueur*, in Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 445, 1833 (*gibbosus* = *sayanus*).

- 1171.
- Aphredoderus sayanus*
- (Gilliams).
- Pirate Perch*
- .

From New York in coastwise streams to Texas; also in the Mississippi Basin north to Michigan.

Scolopsis sayanus Gilliams, Jour. Ac. Nat. Sci. Phila., IV, 1824, 81, near Philadelphia.

Suborder PERCESOCES.

Family CVII. ATHERINIDÆ. *The Silversides.*

Genus 354. ATHERINA (Artedi) Linnæus.

Atherina Artedi, in Linnæus, Syst. Nat., ed. x, 315, 1758 (*hepsetus*).

1172. *Atherina stipes* Müller & Troschel.
Barbados.
Atherina stipes Müller & Troschel, in Schomburgk, Hist. Barbados, 671, 1848, Barbados.
1173. *Atherina laticeps* Poey. *Cabezote; Bristle Herring.*
Caribbean Sea, north to western Florida; Key West, Havana, Jamaica, and Cozumel.
Atherina laticeps Poey, Memorias, II, 265, 1861, Havana.
1174. *Atherina aræa* Jordan & Gilbert.
Gulf of Mexico, at Key West and Cozumel.
Atherina aræa Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 27, Key West, Florida.
1175. *Atherina harringtonensis* Goode.
Bermudas.
Atherina harringtonensis Goode, Am. Jour. Sci. and Arts, 3d series, XIV, No. 82, 1877, 297, Bermuda Islands.
1176. *Atherina carolina* Cuvier & Valenciennes.
South Carolina.
Atherina carolina Cuvier & Valenciennes, Nat. Hist. Poiss., x, 445, 1835, South Carolina.
1177. *Atherina microps* Poey.
Havana.
Atherina microps Poey, Memorias, II, 266, 1861, Havana, Cuba.
- Genus 355. CHIROSTOMA Swainson.
Chirostoma Swainson, Class. Fishes, etc., 243, 1839 (*humboldtianum*).
1178. *Chirostoma estor* Jordan. *Pescado Blanco de Chapala.*
Lake Chapala, Guanajuato.
Chirostoma estor Jordan, Proc. U. S. Nat. Mus. 1879, 298, Lake Chapala, Mexico.
1179. *Chirostoma humboldtianum* (Cuvier & Valenciennes).
Lake near the City of Mexico.
Atherina humboldtiana Cuvier & Valenciennes, Hist. Nat. Poiss., x, 479, 1835, lake at City of Mexico.
1180. *Chirostoma grandocule* (Steindachner). *Guerepo.*
Lake Pátzcuaro, Mexico.
Atherinichthys grandoculis Steindachner, Anzeiger der kais. Akad. d. Wissensch. Wien, 1894, 149, Lake Pátzcuaro, near the City of Mexico.
- Genus 356. ESLOPSARUM Jordan & Evermann.
Eslopsarum, new genus (*jordani*).
1181. *Eslopsarum jordani* (Woolman).
City of Mexico; tributaries of Rio de Lerma, Mexico.
Chirostoma jordani Woolman, Bull. U. S. Fish. Com. 1894, 62, pl. 2, canals in City of Mexico; Rio de Lerma at Salamanca, Mexico.
1182. *Eslopsarum bartoni* (Jordan & Evermann).
Tributary of the Rio Lerma, near Guanajuato, Mexico.
Chirostoma bartoni Jordan & Evermann, Fishes North and Middle America, 793, 1896, tributary of the Rio Lerma, near Guanajuato, Mexico.

Genus 357. KIRTLANDIA Jordan & Evermann.

Kirtlandia Jordan & Evermann, Fishes North and Middle America, 794, 1896 (*vagrans*).

1183. Kirtlandia vagrans (Goode & Bean).

Coast of Gulf of Mexico, Florida to Texas.
Chirostoma vagrans Goode & Bean, Proc. U. S. Nat. Mus. 1879, 148, Pensacola, Florida.

1184. Kirtlandia martinica (Cuvier & Valenciennes).

Martinique.
Atherina martinica Cuvier & Valenciennes, Hist. Nat. Poiss., x, 459, 1835, Martinique.

1185. Kirtlandia laciniata (Swain). *Silver-fish*.

Lower Chesapeake to South Carolina.
Menidia vagrans laciniata Swain, in Jordan & Gilbert, Synopsis, 908, 1883, Beaufort, North Carolina.

Genus 358. MENIDIA Bonaparte.

Menidia Bonaparte, Fauna Italica, about 1836 (no type indicated, *menidia* doubtless intended).

1186. Menidia peninsulæ (Goode & Bean).

Florida and Gulf Coast.
Chirostoma peninsulæ Goode & Bean, Proc. U. S. Nat. Mus. 1879, 148, Pensacola and Lake Monroe, Florida.

1187. Menidia gracilis (Günther).

Atlantic Coast, from Massachusetts to Albemarle Sound.
Atherinichthys gracilis Günther, Cat., III, 405, 1861, no locality.

1187a. Menidia gracilis beryllina (Cope).

Potomac River, in fresh water.
Chirostoma beryllinum Cope, Trans. Am. Philos. Soc. 1866, 403, Potomac River near Washington.

1188. Menidia audens Hay.

Mississippi River, in Mississippi and Tennessee.
Menidia audens Hay, Bull. U. S. Fish Com. 1882, 64, Memphis, Tenn., and Vicksburg, Miss.

1189. Menidia gilberti Jordan & Bollman.

Panama.
Menidia gilberti Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 155, Panama.

1190. Menidia sardina (Jenkins & Evermann). *Pez del Rey*.

Gulf of California.
Atherina sardina Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 137, Guaymas, Sonora.

1191. Menidia notata (Mitchill). *Silver-side*.

Atlantic Coast of United States, south to North Carolina.
Atherina notata Mitchill, Trans. Lit. and Phil. Soc. N. Y. 1815, 446, New York.

1192. Menidia menidia (Linnaeus).

Atlantic Coast, Cape Hatteras to Florida.
Atherina menidia Linnaeus, Syst. Nat., ed. XII, 519, 1766, Charleston, S. C.

1193. Menidia clara Evermann & Jenkins.

Gulf of California.
Menidia clara Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 136, Guaymas, Sonora.

Genus 359. **LEURESTHES** Jordan & Gilbert.*Leuresthes* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 29 (*tenuis*).1194. **Leuresthes crameri** Jordan & Evermann.

Ballenas Bay, Lower California.

Leuresthes crameri Jordan & Evermann, Fishes North and Middle America, 802, 1896, Ballenas Bay, Lower California.1195. **Leuresthes tenuis** (Ayres).

Coast of California, from San Francisco to San Diego.

Atherinopsis tenuis Ayres, Proc. Cal. Ac. Sci. 1860, 76, San Francisco.Genus 360. **EURYSTOLE** Jordan & Evermann.*Eurystole* Jordan & Evermann, Fishes North and Middle America, 802, 1896 (*eriarcha*).1196. **Eurystole eriarcha** (Jordan & Gilbert).

West coast of Mexico; Mazatlan.

Atherinella eriarcha Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 348, Mazatlan, Mexico.Genus 361. **THYRINA** Jordan & Culver.*Thyrina* Jordan & Culver, in Jordan, Fishes Sinaloa, 419, 1895 (*evermanni*).1197. **Thyrina evermanni** Jordan & Culver.

West coast of Mexico; Mazatlan.

Thyrina evermanni Jordan & Culver, in Jordan, Fishes Sinaloa, 419, 1895, Mazatlan, Mexico.1198. **Thyrina crystallina** Jordan & Culver.

Rio Presidio, near Mazatlan, Sinaloa.

Thyrina crystallina Jordan & Culver, in Jordan, Fishes Sinaloa, 420, 1895, Rio Presidio, below Presidio, Sinaloa.1199. **Thyrina guatemalensis** (Günther).

Lakes of Guatemala.

Atherinichthys guatemalensis Günther, Proc. Zool. Soc. Lond. 1864, 151, lakes of Huamuchal, Guatemala.1200. **Thyrina pachylepis** (Günther).

Panama.

Atherinichthys pachylepis Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.Genus 362. **ATHERINELLA** Steindachner.*Atherinella* Steindachner, Ichth. Beitr., 11, 35, 1875 (*panamensis*).1201. **Atherinella panamensis** Steindachner.

Panama.

Atherinella panamensis Steindachner, Ichth. Beitr., 11, 35, 1875, Panama.Genus 363. **LABIDESTHES** Cope.*Labidesthes* Cope, Proc. Amer. Phil. Soc. Phila. 1870, 455 (*sicculum*).1202. **Labidesthes sicculus** (Cope). *Brook Silverside*; *Skipjack*.

Lake Ontario and southern Michigan to Iowa, Florida, and Texas.

Chrostoma sicculum Cope, Proc. Ac. Nat. Sci. Phila. 1865, 81, Grosse Isle, Detroit River, Michigan.Genus 364. **ATHERINOPSIS** Girard. *Pescado del Rey*.*Atherinopsis* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134 (*californiensis*).1203. **Atherinopsis californiensis** Girard. (*California Smelt*; *Pescado del Rey*; *Peixe Rey*; *Pesce-Rey*).

Coast of California, from Cape Mendocino to San Diego.

Atherinopsis californiensis Girard, Proc. Ac. Nat. Sci. Phila. 1854, 134, San Francisco, Cal.

Genus 365. **ATHERINOPS** Steindachner. *Pescadillos del Rey*.
Atherinops Steindachner, Ichth. Beitr., III, 61, 1875 (*affinis*).

1204. **Atherinops insularum** (Gilbert).
 San Clemente and San Nicolas islands of the Santa Barbara group;
 Guadalupe Island.
Atherina insularum Gilbert, Proc. U. S. Nat. Mus. 1891, 549, San Clemente,
 San Nicolas, and Guadalupe islands.
1205. **Atherinops affinis** (Ayres). *Little "Smelt"*; *Pescadillo del Rey*.
 Coast of California.
Atherinopsis affinis Ayres, Proc. Cal. Ac. Sci. 1860, 73, San Francisco.
1206. **Atherinops regis** Jenkins & Evermann. *Pez del Rey*.
 Gulf of California.
Atherinops regis Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 138, Bay
 of Guaymas, Sonora.

Family CVIII. MUGILIDÆ. The Mulletts.

Genus 366. **MUGIL** (Artedi) Linnaeus. *Mulletts*.

Mugil Artedi, in Linnaeus, Syst. Nat., ed. x, 316, 1758 (*cephalus*).

1207. **Mugil brasiliensis** Agassiz. *Lisa*; *Lebranco*; *Queriman*.
 Cuba to Patagonia; West Indies; Brazil; Havana.
Mugil brasiliensis Agassiz, Spix, Pisc. Brasil., 234, pl. 72, 1829, Atlantic
 Ocean, off Brazil.
1208. **Mugil cephalus** Linnaeus. *Common Mullet*; *Striped Mullet*; *Céfalo*; *Macho*;
Machuto; *Liza Cabezuda*.
 Coasts of southern Europe and northern Africa; Atlantic Coast of America,
 from Cape Cod to Brazil; Pacific Coast, from Monterey to Chile.
Mugil cephalus Linnaeus, Syst. Nat., ed. x, 316, 1758, Europe; based on Artedi.
1209. **Mugil incilis** Hancock. *Trench Mullet*.
 Waters of Central America; Rio Chagres to Pará and Bahia.
Mugil incilis Hancock, Quart. Jour. Sci. 1830, 127, Guiana.
1210. **Mugil thoburni** Jordan & Starks.
 Pacific Coast of Tropical America, from Guatemala to Galapagos.
Mugil thoburni Jordan & Starks, in Jordan & Evermann, Fishes North and
 Middle America, 812, 1896, Galapagos.
1211. **Mugil curema** Cuvier & Valenciennes. *White Mullet*; *Blueback Mullet*; *Liza*;
Liza Blanca; *Red-and-black-eyed Mullet*.
 Both coasts of America; Cape Cod to Brazil; Magdalena Bay to Chile.
Mugil curema Cuvier & Valenciennes, Hist. Nat. Poiss., XI, 87, 1836, Brazil;
 Martinique; Cuba.
1212. **Mugil hospes** Jordan & Culver. *Lizita*.
 West coast of Mexico.
Mugil hospes Jordan & Culver, in Jordan, Fishes Sinaloa, 422, pl. 31, 1895,
 Mazatlan, Mexico.
1213. **Mugil gaimardianus** Desmarest. *Red-eye Mullet*; *Liza Ojo de Perdiz*.
 Florida Keys to Cuba; Key West.
Mugil gaimardianus Desmarest, Dict. Class., pl. 109, 1831, Cuba.
1214. **Mugil setosus** Gilbert.
 Clarion Island of the Revillagigedo group.
Mugil setosus Gilbert, Proc. U. S. Nat. Mus. 1891, 549, Clarion Island.
1215. **Mugil trichodon** Poey. *Fan-tail Mullet*.
 Florida Keys to Brazil; Key West.
Mugil trichodon Poey, Ann. Lyc. Nat. Hist. N. Y., XI, 1875, 66, pl. 8, figs. 4-8,
 Cuba.

Genus 367. *CHÆNOMUGIL* Gill.*Chænomugil* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 169 (*proboscideus*).1216. *Chænomugil proboscideus* (Günther).

Pacific Coast of Tropical America; Mazatlan; Cordova; Panama.

Mugil proboscideus Günther, Cat., III, 459, 1861, island of Cordova (Cardon), west coast of Central America.Genus 368. *QUERIMANA* Jordan & Gilbert.*Querimana* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 588 (*harengus*).1217. *Querimana harengus* (Günther). *El Verde*.

Pacific Coast of tropical America, from Mazatlan to Peru.

Myxus harengus Günther, Cat., III, 467, 1861, Pacific Coast of Central America.1218. *Querimana gyrans* Jordan & Gilbert. *Whirligig Mullet*.

South Atlantic Coast of North America, Woods Hole to Key West, and both coasts of Florida.

Querimana gyrans Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 26, Key West.Genus 369. *AGONOSTOMUS* Bennett.*Agonostomus* Bennett, Proc. Com. Zool. Soc. 1830, 166 (*telfairii*).Subgenus *DAJAUS* Cuvier & Valenciennes.*Dajaus* Cuvier & Valenciennes, Hist. Nat. Poiss., XI, 164, 1836 (*monticola*).1219. *Agonostomus percoideus* Günther.

San Domingo.

Agonostoma percoideus Günther, Cat., III, 464, 1861, San Domingo.1220. *Agonostomus monticola* (Baneroff).

West Indies; eastern Mexico; Vera Cruz.

Mugil monticola Baneroff, in Griffith's edition of Cuvier's Animal Kingdom, Fishes, 367, pl. 36, 1836, Jamaica.1221. *Agonostomus nasutus* Günther. *Trucha*.

Rivers of Central America, and north to Lower California.

Agonostoma nasutum Günther, Cat., III, 463, 1861, Rio Geronimo.1222. *Agonostomus microps* Günther.

West Indies and Central America.

Agonostoma microps Günther, Cat., III, 462, 1861, probably West Indies.Genus 370. *JOTURUS* Poey.*Joturus* Poey, Memorias, II, 263, 1861 (*pichardi*).1223. *Joturus pichardi* Poey. *Joturo*; *Bobo*.

Panama; Costa Rica; Cuba; Vera Cruz; Rio Almendares, near Havana.

Joturus pichardi Poey, Memorias, II, 263, 1861, cascades throughout Cuba.Family CIX. *SPHYRÆNIDÆ*. The Barracudas.Genus 371. *SPHYRÆNA* (Artedi) Bloch & Schneider.*Sphyræna* Artedi, in Bloch & Schneider, Syst. Ichth., 109, 1801 (*sphyræna*).1224. *Sphyræna barracuda* (Walbaum). *Great Barracuda*; *Pienda*; *Becuna*; *Short Barraouda*.

West Indies and Brazil, north to Pensacola, Charleston, and the Bermudas.

Esox barracuda Walbaum, Artedi Piscium, III, 94, 1792; after Catesby.1225. *Sphyræna ensis* Jordan & Gilbert. *Pienda*.

Gulf of California to Panama.

Sphyræna ensis Jordan & Gilbert, Bull. U. S. Fish Com. 1882, 106, Mazatlan.

1226. *Sphyræna guaguanche* Cuvier & Valenciennes. *Guaguanche*; *Guaguanche Pelon*; *Long Barracuda*.
West Indies north to Pensacola; Gulf Stream to Woods Hole.
Sphyræna guachancho Cuvier & Valenciennes, Hist. Nat. Poiss., 111, 342, 1829
(*lapsus for guaguanche*), Havana.
1227. *Sphyræna picudilla* Poey. *Pioudilla*.
West Indies on the coasts of Cuba; Bahía.
Sphyræna picudilla Poey, Memorias, II, 162, 1860, Havana.
1228. *Sphyræna borealis* DeKay. *Northern Barracuda*.
Atlantic Coast of the United States, from Cape Cod to North Carolina.
Sphyræna borealis DeKay, N. Y. Fauna: Fishes, 37, pl. 60, fig. 196, 1842, New York.
1229. *Sphyræna argentea* Girard. *California Barracuda*; *Barracouta*.
Pacific Coast, from San Francisco southward to Cape San Lucas.
Sphyræna argentea Girard, Proc. Ac. Nat. Sci. Phila. 1854, 144, San Diego, Cal.
1230. *Sphyræna sphyræna* (Linnaeus) *European Barracuda*; *Spel*; *Sennet*.
Coasts of southern Europe and neighboring islands, west to the Bermudas.
Esox sphyræna Linnaeus, Syst. Nat., ed. x, 313, 1758, Mediterranean Sea.

Suborder RHEGNOPTERI.

Family CX. POLYNEMIDÆ. The Threadfins.

- Genus 372. POLYNEMUS (Gronow) Linnaeus.
Polynemus (Gronow) Linnaeus, Syst. Nat., ed. x, 317, 1758 (in part; *quinquarius*; *virginicus*; *paradisæus*).
1231. *Polynemus quinquarius* Linnaeus.
Atlantic Ocean, West Indies to coast of Africa.
Polynemus quinquarius Linnaeus, Syst. Nat., ed. x, 317, 1758, America; after Gronow.
- Genus 373. POLYDACTYLUS Lacépède. *Barbudos*.
Polydactylus Lacépède, Hist. Nat. Poiss., v, 419, 1832 (*plumieri* = *virginicus*).
1232. *Polydactylus approximans* (Lay & Bennett). *Raton*.
Pacific Coast of tropical America, from Guaymas to Panama.
Polynemus approximans Lay & Bennett, Beechey's Voyage, Zool., Fish., 57, 1849, Mazatlan.
1233. *Polydactylus virginicus* (Linnaeus). "*Catfish*."
West Indies, north to the Florida Keys.
Polynemus virginicus Linnaeus, Syst. Nat., ed. x, 317, 1758, America.
1234. *Polydactylus octonemus* (Girard).
New York to the Rio Grande.
Polynemus octonemus Girard, Proc. Ac. Nat. Sci. Phila. 1858, 167, Brazos Santiago; Galveston.
1235. *Polydactylus opercularis* (Gill).
Pacific Coast of tropical America, from Cape San Lucas to Panama.
Trichidion opercularis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 168, Cape San Lucas.

Group AMMODYTOIDEI.

Family CXI. AMMODYTIDÆ. The Sand Launces.

- Genus 374. AMMODYTES (Artedi) Linnaeus. *Sand Launces*.
Ammodytes Artedi, in Linnaeus, Syst. Nat., ed. x, 247, 1758 (*tobianus*).
1236. *Ammodytes dubius* Reinhardt.
Greenland to Cape Cod.
Ammodytes dubius Reinhardt, Dansk. Vidensk. Selsk. Afhandl., 132, 1838, Greenland.

1237. *Ammodytes alascanus* Cope.
North Pacific Coast of North America, Sitka to Aleutian Islands.
Ammodytes alascanus Cope, Proc. Am. Philos. Soc. 1873, 7, Sitka.
1238. *Ammodytes americanus* DeKay. *Sand Lancee; Sand Fel; Lant.*
Newfoundland to Cape Hatteras.
Ammodytes americanus DeKay, N. Y. Fauna: Fishes, 317, 1842, Stratford, Conn.
1239. *Ammodytes personatus* Girard. *Sand Lancee.*
Alaska to Monterey, California.
Ammodytes personatus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 137, Cape Flat-
tery, Washington.

Group BERYCOIDEI. The Berycoid Fishes.

Family CXII. BATHYCLUPEIDÆ.

Genus 375. BATHYCLUPEA Alcock.

Bathyclupea Alcock, Ann. and Mag. Nat. Hist., VIII, 1891, 130 (*hoskynii*).

1240. *Bathyclupea argentea* Goode & Bean.
Nevis Island, West Indies, in deep water.
Bathyclupea argentea Goode & Bean, Oceanic Ichthyology, 190, 1896, off Nevis
Island, West Indies, at Blake Station 37, in 365 fathoms.

Family CXIII. STEPHANOBERYCIDÆ.

Genus 376 STEPHANOBERYX Gill.

Stephanoberyx Gill, Proc. U. S. Nat. Mus. 1883, 258 (*monæ*).

1241. *Stephanoberyx monæ* Gill.
Gulf Stream.
Stephanoberyx monæ Gill, Proc. U. S. Nat. Mus. 1883, 258, Gulf Stream, at
Albatross Station 2077, in 1,255 fathoms.
1242. *Stephanoberyx gillii* Goode & Bean.
Gulf Stream.
Stephanoberyx gillii Goode & Bean, Oceanic Ichthyology, 187, fig. 206, 1896,
Gulf Stream at Albatross Station 2099, in 2,949 fathoms.

Family CXIV. TRACHICHTHYIDÆ.

Genus 377. HOPLOSTETHUS Cuvier & Valenciennes.

Hoplostethus Cuv. & Val., Hist. Nat. Poiss., IV, 469, 1829 (*mediterraneus*).

1243. *Hoplostethus mediterraneus* Cuvier & Valenciennes.
Coasts of southern Europe; Gulf Stream.
Hoplostethus mediterraneus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 469,
1829, Mediterranean Sea.

Family CXV. BERYCIDÆ. The Berycoids.

Genus 378. CAULOLEPIS Gill.

Caulolepis Gill, Forest and Stream, XXI, August 30, 1883, and in Proc. U. S.
Nat. Mus., VI, 1884, 258 (*longidens*).

1244. *Caulolepis longidens* Gill.
Gulf Stream, in deep water.
Caulolepis longidens Gill, Proc. U. S. Nat. Mus. 1883, 258, Atlantic Ocean, lati-
tude 39° 27' N., longitude 69° 56' 20" W., in 1,346 fathoms.

Genus 379. ANOPILOGASTER Günther.

Anoplogaster Günther, Cat., I, 12, 1859 (*cornutus*).

1245. *Anoplogaster cornutus* (Cuvier & Valenciennes).
North Atlantic, in deep water.
Hoplostethus cornutus Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 270, 1833,
from stomach of an albacore, taken at 31° N., 40° W.

Genus 380. POROMITRA Goode & Bean.*Poromitra* Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 214, 1882 (*capito*).**1246. *Poromitra capito* Goode & Bean.**

Gulf Stream, in latitude 34°.

Poromitra capito Goode & Bean, Bull. M. C. Z., x, No. 5, 215, 1882, Gulf Stream.**Genus 381. PLECTROMUS Gill.***Plectromus* Gill, Proc. U. S. Nat. Mus. 1883, 257 (*suborbitalis*).**1247. *Plectromus suborbitalis* Gill.**

Gulf Stream, in deep water.

Plectromus suborbitalis Gill, Proc. U. S. N. M., vi, 1883, 258, 38° 52' N., 69° 24' W., at Albatross Stations 2036, 2190, and 2535, in 1,149 to 1,800 fathoms.**1248. *Plectromus lugubris* (Gilbert).**

Coast of California.

Melamphaes lugubris Gilbert, Proc. U. S. N. M. 1890 (1891), 59, coast of California, south of Point Conception, at Albatross Station 2923, in 822 fathoms.**1249. *Plectromus beanii* (Günther).**

Gulf Stream.

Melamphaes beanii Günther, Deep Sea Fishes, Challenger, xxii, 29, 1887, Gulf Stream, in about latitude 40°.**1250. *Plectromus crassiceps* (Günther).**

Mid-Atlantic; Pernambuco.

Scopelus crassiceps Günther, Ann. Mag. Nat. Hist., ii, 1878, 185, deep water in mid-Atlantic and off Pernambuco.**1251. *Plectromus cristiceps* (Gilbert).**

Coast of Washington and Oregon.

Melamphaes cristiceps Gilbert, Proc. U. S. Nat. Mus. 1890 (1891), 60, coast of Oregon and Washington at Albatross Station 3075, in 859 fathoms.**Genus 382. BERYX Cuvier.***Beryx* Cuvier, Règne Animal, ed. 2, ii, 151, 1829 (*decadactylus*).**1252. *Beryx decadactylus* Cuvier & Valenciennes. *Alfonsin a Casta Larga*.**

Portugal, Madeira, Japan, and Cuba.

Beryx decadactylus Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 222, 1829, Madeira or Portugal.**1253. *Beryx splendens* Lowe. *Alfonsin a Casta Cumprida*.**

Madeira, Japan, and Gulf Stream at 35° 49' 30" N., 74° 34' 45" W., in 424 fathoms.

Beryx splendens Lowe, Proc. Zool. Soc. Lond. 1833, 142, Madeira.**Family CXVI. HOLOCENTRIDÆ. The Squirrel-Fishes.****Genus 383. MYRIPRISTIS Cuvier.***Myripristis* Cuvier, Règne Animal, ed. 2, ii, 150, 1829 (*jacobus*).**Subgenus OSTICHTHYS Langsdorf.***Ostichthys* Langsdorf, in Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 174, 1829, name only, passing reference.**1254. *Myripristis trachypoma* Günther.**

West Indies, Cuba.

Myripristis trachypoma Günther, Cat., i, 25, 1859, Cuba.**Subgenus MYRIPRISTIS Cuvier.****1255. *Myripristis jacobus* Cuvier & Valenciennes. *Frère Jacques; Candil*.**

West Indies to Brazil.

Myripristis jacobus Cuvier & Valenciennes, Hist. Nat. Poiss., iii, 162, 1829, Martinique.

1256. *Myripristis occidentalis* Gill.

West coast of America, from Cape San Lucas to Panama.

Myriopristis occidentalis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 87, Cape San Lucas.1257. *Myripristis pacilopus* (Gill).

West coast of America, from Cape San Lucas to Panama.

Rhamphoberyx pacilopus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 87, Cape San Lucas.Genus 384. *Holocentrus* Gronow. *Squirrel-fishes*.*Holocentrus* Gronow, Zoophyl., 65, 1763 (*rostratus*).1258. *Holocentrus ascensionis* (Osbeck). *Matejuelo*; *Squirrel-fish*; *Welshman*; *Soldado*.

Florida to St. Helena; Cuba.

Perca ascensionis Osbeck, Iter Chin., 388, 1771, Ascension Island.1258a. *Holocentrus ascensionis rufus* (Walbaum).

Bahia; Cuba.

Perca rufa Walbaum, Artedi Pisc., 351, 1792, Bahamas; after *perca marina rubra* of Catesby.1259. *Holocentrus siccifer* Cope.

Bahamas.

Holocentrum sicciferum Cope, Trans. Amer. Philos. Soc., xxx, 1866, 465, New Providence, Bahamas.1260. *Holocentrus suborbitalis* Gill. *Mojarra Cardinal*.

Mazatlan to Panama.

Holocentrum suborbitale Gill, Proc. Ac. Nat. Sci. Phila. 1863, 86, Cape San Lucas.1261. *Holocentrus coruscus* Poey.

West Indies; Cuba and the Bahamas.

Holocentrum coruscum Poey, Memorias, II, 158, 1860, Cuba.1262. *Holocentrus brachypterus* Poey.

Cuba.

Holocentrus brachypterus Poey, Repertorio, 184, 1866, Cuba.1263. *Holocentrus marianus* Cuvier & Valenciennes. *Marian*.

West Indies: Cuba, Jamaica, and Martinique.

Holocentrum marianum Cuvier & Valenciennes, Hist. Nat. Poiss., III, 219, 1829, Martinique.1264. *Holocentrus vexillarius* Poey.

Cuba.

Holocentrum vexillarium Poey, Memorias, II, 158, 1860, Cuba.1265. *Holocentrus osculus* Poey.

Cuba.

Holocentrum osculum Poey, Memorias, II, 156, 1860, Cuba.1266. *Holocentrus sancti-pauli* Günther.

St. Paul Rocks, mid-Atlantic.

Holocentrum sancti-pauli Günther, Shore Fishes, 4, 1880, St. Paul Rocks.Genus 385. *Plectrypops* Gill.*Plectrypops* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*retrospinis*).1267. *Plectrypops retrospinis* (Guichenot).

Cuba.

Holocentrum retrospinis Guichenot, in Ramon de la Sagra, Hist. Cuba, 35, pl. 1, fig. 3, 1850, Cuba.

Family CXVII. POLYMIXIIDÆ. The Barbudos.

Genus 386. POLYMIXIA Lowe.

Polymixia Lowe, Trans. Camb. Phil. Soc. 1838, 198 (*nobilis*).

1268. *Polymixia lowei* Günther.

Caribbean Sea; Cuba.

Polymixia lowei Günther, Cat., 1, 17, 1859, Caribbean Sea.

Family CXVIII. MULLIDÆ. The Surmulletts.

Genus 387. MULLUS Linneus. *Surmulletts*.

Mullus Linneus, Syst. Nat., ed. x, 299, 1758 (*barbatus*).

1269. *Mullus auratus* Jordan & Gilbert.

Eastern coast of North America, Cape Cod to Pensacola.

Mullus barbatus auratus Jordan & Gilbert, Proc. J. S. Nat. Mus. 1882, 280, Pensacola, Florida.

Genus 388. MULLOIDES Bleeker.

Mulloides Bleeker, Coram., II, 697, 1865 (*flavotinctatus*).

1270. *Mulloides rathbuni* (Evermann & Jenkins).

Gulf of California.

Upeneus rathbuni Evermann & Jenkins, Proc. U. S. Nat. Mus. 1891, 158, pl. 2, fig. 4, Bay of Guaymas, Sonora.

Genus 389. UPENEUS Cuvier. *Goatfishes*.

Upeneus Cuvier, Règne Animal, ed. 2, vol. 2, 157, 1829 (*vittatus*; *russellii*; *bifasciatus*; *trifasciatus*; restricted by Bleeker to *bifasciatus*).

1271. *Upeneus maculatus* (Bloch). *Red Goatfish*; *Salmonete*.

West Indies and Brazil; Key West to Rio Janeiro.

Mullus maculatus Bloch, Ichthyologia, 348, 1793, Brazil.

1272. *Upeneus dentatus* Gill.

Pacific Coast of Mexico, Cape San Lucas, La Paz, and the Tres Marias Islands.

Upeneus dentatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas.

1273. *Upeneus parvus* Poey.

Cuba.

Upeneus parvus Poey, Memorias, 1, 226, 1851, Cuba.

1274. *Upeneus martinicus* Cuvier & Valenciennes. *Yellow Goatfish*; *Salmonete Amarilla*; *King Mullet*.

West Indies, north to Key West.

Upeneus martinicus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 483, 1829, Martinique.

1275. *Upeneus xanthogrammus* Gilbert.

La Paz, Lower California.

Upeneus xanthogrammus Gilbert, Proc. U. S. Nat. Mus. 1891, 553, La Paz, Lower California.

1276. *Upeneus grandisquamis* Gill. *Chiro*.

Pacific Coast of Mexico and Central America, Guaymas to Panama.

Upeneus grandisquamis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 168, west coast of Central America.

Group SCOMBROIDEI. The Mackerel-like Fishes.

Family CXIX. SCOMBRIDÆ. The Mackerels.

Genus 390. SCOMBER (Artedi) Linnæus.

Scomber Artedi, in Linnæus, Syst. Nat., ed. x, 297, 1758 (*scombrus*).

Subgenus SCOMBER (Artedi) Linnæus.

1277. *Scomber scombrus* Linnæus. *Common Mackerel*.

North Atlantic; Norway and Labrador; south to Spain and Cape Hatteras.

Scomber scombrus Linnæus, Syst. Nat., ed. x, 297, 1758, Atlantic.

Subgenus PNEUMATOPHORUS Jordan & Gilbert.

Pneumatophorus Jordan & Gilbert. Proc. U.S. N. M. 1882, 593 (*pneumatophorus*).

1278. *Scomber colias* Gmelin. *Chub Mackerel; Tinker Mackerel; Easter Mackerel; Thimble-eyed Mackerel; "Spanish Mackerel" of England.*

Atlantic and Pacific, north to England, Maine, and San Francisco; Mediterranean and southern California.

Scomber colias Gmelin, Syst. Nat., ed. XIII, 1329, 1788, Sardinia.

Genus 391. AUXIS Cuvier. *Frigate Mackerels.*

Auxis Cuvier, Règne Animal, ed. II, vol. 2, 119, 1829 (*rochet*).

1279. *Auxis thazard* (Lacépède). *Frigate Mackerel.*

All warm seas, occasionally northward to Cape Cod.

Scomber thazard Lacépède, Hist. Nat. Poiss., III, 9, 1802, 6° and 7° S. lat., coast of New Guinea.

Genus 392. GYMNOSARDA Gill. *Little Tunnies.*

Gymnosarda Gill, Proc. Ac. Nat. Sci. Phila. 1862, 125 (*unicolor*).

1280. *Gymnosarda pelamis* (Linnæus). *Oceanic Bonito.*

Warm seas; north to Cape Cod and Bermudas on the Atlantic Coast.

Scomber pelamis Linnæus, Syst. Nat., ed. x, 297, 1758, "in Pelago inter Tropicos."

1281. *Gymnosarda alleterata* (Rafinesque). *Little Tunny; Bonito.*

Warm seas; Cape Cod; West Indies; Mediterranean.

Scomber alleteratus Rafinesque, Carat. Alcuini Gen., etc., 46, 1810, Palermo.

Genus 393. THUNNUS South. *Great Tunnies.*

Thunnus South, Encyclop. Metropolit., v, 620, 1845 (*thynnus*).

1282. *Thunnus thynnus* (Linnæus). *Tunny; Horse-mackerel; Great Albacore; Tuna.*

Cape Cod and off all coasts; north to England, Newfoundland, San Francisco, and Japan.

Scomber thynnus Linnæus, Syst. Nat., ed. x, 297, 1758, Europe.

Genus 394. GERMO Jordan. *Albacores.*

Germo Jordan, Proc. Ac. Nat. Sci. Phila. 1888, 180 (*alalunga*).

1283. *Germo alalunga* (Gmelin). *Long-finned Albacore; Albecor; Alitonghi; Germon.*

Mediterranean; San Francisco; Santa Barbara Islands.

Scomber alalunga Gmelin, Syst. Nat., I, 1330, 1788, Sardinia.

Genus 395. SARDA Cuvier. *Bonitos.*

Sarda Cuvier, Règne Animal, ed. 2, II, 199, 1829 (*pelamys = sarda*).

1284. *Sarda sarda* (Bloch). *Bonito.*

Atlantic Ocean, on both coasts, north to Cape Cod.

Scomber sarda Bloch, Ichthyologia, x, 35, pl. 334, 1793, Europe.

1285. *Sarda chilensis* (Cuvier & Valenciennes). *California Bonito; Skipjack.*

San Francisco to Patagonia and Japan.

Pelamys chilensis Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 163, 1831, Valparaiso.

Genus 396. **SCOMBEROMORUS** Lacépède.*Scomberomorus* Lacépède, Hist. Nat. Poiss., III, 292, 1802 (*plumierii*).

1286. **Scomberomorus concolor** (Lockington). *Monterey Spanish Mackerel*.
Monterey Bay, California; Santa Cruz.
Chromitra concolor Lockington, Proc. Ac. Nat. Sci. Phila. 1879, 133, Monterey, California.
1287. **Scomberomorus maculatus** (Mitchill). *Spanish Mackerel*.
East coast of America from Cape Ann to Brazil; common in Gulf of Mexico, but rare or unknown about Cuba.
Scomber maculatus Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 426, New York.
1288. **Scomberomorus sierra** Jordan & Starks. *Sierra*.
Pacific Coast of Tropical America.
Scomberomorus sierra Jordan & Starks, in Jordan, Fishes Sinaloa, 428, 1895, Mazatlan, Mexico.
1289. **Scomberomorus regalis** (Bloch). *Sierra; Pintado*.
Cape Cod to Brazil; Cuba.
Scomber regalis Bloch, Ichthyol., pl. 333, 1795, Martinique; after a drawing by Plumier.
1290. **Scomberomorus cavalla** (Cuvier). *Sierra; Kingfish; Cavalla; Cero*.
Tropical Atlantic; Florida Keys and Charleston; Cape Cod; Africa; Brazil.
Cybium cavalla Cuvier, Règne Animal, ed. 2, II, 200, 1829; after *Guarapucu* of Maregrave.

Genus 397. **ACANTHOCYBIUM** Gill. *Petos*.*Acanthocybium* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 125 (*sara = solandri*).

1291. **Acanthocybium solandri** (Cuvier & Valenciennes). *Peto; Wahoo; Guarapucu*.
Tropical seas; Cuba; Key West.
Cybium solandri Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 192, 1831; after MS. of Solander, open sea; no locality.

Family CXX. **GEMPYLIDÆ**. The Escolars.Genus 398. **ESCOLAR** Jordan & Evermann.*Escolar* Jordan & Evermann, in Goode & Bean, Oceanic Ichthyology, 519, 1896 (*violaceus*).

1292. **Escolar violaceus** (Bean).
Le Have Bank.
Thyrstrops violaceus Bean, Proc. U. S. Nat. Mus. 1887, 513, Le Have Bank.

Genus 399. **RUVETTUS** Cocco. *Escolars*.*Ruvettus* Cocco, Giorn. Sci. Sicilia, XLII, 2, 1829 (*pretiosus*).

1293. **Ruvettus pretiosus** Cocco. *Escolar; Rovetto; Ruvetto; Chicola; Oilfish; Scourfish; Plain-tail*.
Mediterranean and westward in the Atlantic.
Ruvettus pretiosus Cocco, in Giornale di Scienze e per la Sicilia, XLII, 21, 1829, Messina.

Genus 400. **EPINNULA** Poey.*Epinnula* Poey, Memorias, I, 369, 1854 (*magistralis*).

1294. **Epinnula magistralis** Poey. *Dóminr*.
Havana.
Epinnula magistralis Poey, Memorias, I, 369, 1854, Havana.

Genus 401. **NEALOTUS** Johnson.*Nealotus* Johnson, Proc. Zool. Soc. Lond. 1865, 434 (*tripex*).

1295. **Nealotus tripes** Johnson.

Madeira; between the Bahamas and Bermudas.

Nealotus tripes Johnson, Proc. Zool. Soc. Lond. 1865, 434, Madeira.

Genus 402. **PROMETHICHTHYS** Gill.

Promethichthys Gill, Mem. Nat. Ac. Sci., VI, 1893, 115 and 123 (*prometheus*).

1296. **Promethichthys prometheus** (Cuvier & Valenciennes). *Rabbit-fish; Coelbo; Concho; Bermuda Catfish.*

Tropical Atlantic; Cuba; Bermudas.

Gempylus prometheus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 213, pl. 222, 1831, St. Helena.

1297. **Promethichthys parvipinnis** (Goode & Bean).

Western Atlantic.

Dicrotus parvipinnis Goode & Bean, Oceanic Ichthyology, 201, 1896, Gulf Stream at Albatross Stations 2537, 2542, and 2601, at about 40° N., 70° W.

Genus 403. **GEMPYLUS** Cuvier & Valenciennes. *Snake Mackerels.*

Gempylus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 207, 1831 (*serpens*).

1298. **Gempylus serpens** Cuvier & Valenciennes.

Deep seas.

Gempylus serpens Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 207, 1831, Martinique.

Family **CXXI. LEPIDOPIDÆ.**

Genus 404. **APHANOPUS** Lowe.

Aphanopus Lowe, Proc. Zool. Soc. Lond. 1839, 79 (*carbo*).

1299. **Aphanopus minor** Collett.

East coast of Greenland.

Aphanopus minor Collett, Vidensk. Selsk. Forhandl. Christiania, No. 19, 3, 1886, east coast of Greenland, at 65° N., 31° W.

Genus 405. **VOXYMETOPON** Poey. *Tirantes.*

Evozymetopon Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 228 (*tæniatus*).

1300. **Evozymetopon tæniatus** Poey. *Tirante.*

Cuba.

Evozymetopon tæniatus Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 228, Cuba.

Genus 406. **LEPIDOPUS** Gouan. *Frost-fishes.*

Lepidopus Gouan, Hist. Nat. Poiss., 185, 1770 (*gouani*).

1301. **Lepidopus caudatus** (Euphrasen). *Frost-fish; Scabbard-fish.*

Atlantic; Norway to South Africa and New-Zealand.

Trichiurus caudatus Euphrasen, Stockh. K. Vet. Ac. Nya Handl., 52, pl. 9, fig. 2, 1788, Mediterranean.

Genus 407. **BENTHODESMUS** Goode & Bean.

Benthodesmus Goode & Bean, Proc. U. S. Nat. Mus., IV, 1881, 380 (*elongatus*).

1302. **Benthodesmus atlanticus** Goode & Bean.

Western edge Grand Bank of Newfoundland, in 80 fathoms.

Benthodesmus atlanticus Goode & Bean, Oceanic Ichth., 205, 1896, Grand Bank.

Family **CXXII. TRICHIURIDÆ. The Cutlas-Fishes.**

Genus 408. **TRICHIURUS** Linnæus. *Hairtails.*

Trichiurus Linnæus, Syst. Nat., ed. x, 246, 1758 (*lepturus*).

1303. **Trichiurus lepturus** Linnæus. *Cutlas-fish; Scabbard-fish; Silver-fish; Sable; Savola.*

Warm seas north to Virginia and Lower California; West Indies.

Trichiurus lepturus Linnæus, Syst. Nat., ed. x, 246, 1758, America; after *Lepturus* of Artedi.

Family CXXIII. ISTIOPHORIDÆ. The Sail-Fishes.

Genus 409. ISTIOPHORUS Lacépède. *Sail-fishes*.*Istiophorus* Lacépède, Hist. Nat. Poiss., III, 374, 1802 (*gladifer* = *gladius*).

- 1304.
- Istiophorus nigricans*
- (Lacépède).
- Sail-fish; Spike-fish; Boohoo; Guebucu; Vollier; Aguja Voladora; Aguja Prieta*
- .

West Indies and warmer parts of the Atlantic, north to Key West and France; Florida Keys; Newport; south of Savannah.

Makaira nigricans Lacépède, Hist. Nat. Poiss., IV, 688, 1803, Rochelle; from a drawing by M. Traversay.Genus 410. TETRAPTURUS Rafinesque. *Spear-fishes*.*Tetrapturus* Rafinesque, Indice d'Ittiol. Sicil., 30, 1810 (*belone*).

- 1305.
- Tetrapturus imperator*
- (Bloch & Schneider).
- Bill-fish; Spear-fish; Aguja Blanca; Aguja de Paladar*
- .

West Indies; Cape Cod.

Xiphias imperator Bloch & Schneider, Syst. Ichth., 93, pl. XXI, 1801, Mediterranean; after Duhamel.

- 1306.
- Tetrapturus amplus*
- Poey.
- Aguja de Casta*
- .

West Indies.

Tetrapturus amplus Poey, Memorias, II, 243, 1861, Havana.

Family CXXIV. XIPHIIDÆ. The Sword-Fishes.

Genus 411. XIPHIAS Linnæus. *Sword-fishes*.*Xiphias* Linnæus, Syst. Nat., ed. x, 248, 1758 (*gladius*).

- 1307.
- Xiphias gladius*
- Linnæus.
- Common Sword-fish; Espada; Espadon; Emperador*
- .

Atlantic Ocean on both coasts; Cuba to Cape Breton and Newfoundland Banks; Pacific at Santa Barbara Islands.

Xiphias gladius Linnæus, Syst. Nat., ed. x, 248, 1758, Europe.

Family CXXV. NEMATISTIIDÆ. The Papagallos.

Genus 412. NEMATISTIUS Gill.

Nematistius Gill, Proc. Ac. Nat. Sci. Phila. 1862, 258 (*pectoralis*).

- 1308.
- Nematistius pectoralis*
- Gill.

Gulf of California to Panama; Cape San Lucas; Guaymas; Picheluogo, Mazatlan; Magdalena Bay; Panama.

Nematistius pectoralis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 259, Cape San Lucas.

Family CXXVI. CARANGIDÆ. The Pampanos.

Genus 413. OLIGOPLITES Gill.

Oligoplites Gill, Proc. Ac. Nat. Sci. Phila. 1863, 166 (*occidentalis*).

- 1309.
- Oligoplites saurus*
- (Bloch & Schneider).
- Leather-jacket; Leather-coat*
- .

Both coasts of America, and West Indies, north to New York and Lower California.

Scomber saurus Bloch & Schneider, Syst. Ichth., 32, 1801, Jamaica.

- 1310.
- Oligoplites saliens*
- (Bloch).
- Sauteur*
- .

West Indies.

Scomber saliens Bloch, Ichthyologia, pl. 335, 1793, Martinique; on a figure by Plumier.

- 1310a.
- Oligoplites saliens palometa*
- (Cuvier & Valenciennes).

Lake Maracaibo, Venezuela.

Chorinemus palometa Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 392, 1831, Lake Maracaibo, Venezuela.

1311. *Oligoplites altus* (Günther).

Pacific Coast of tropical America; Panama.

Chorinemus altus Günther, Fishes Central Amer., 433, 1869, Panama.**1312. *Oligoplites mundus* Jordan & Starks.**

West coast of Mexico; Mazatlan.

Oligoplites mundus Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1896, Mazatlan, Mexico.**Genus 414. NAUCRATES Rafinesque.***Naucrates Rafinesque*, Caratteri di Alcuni Nuovi Generi, etc., 44, 1810 (*conductor*).**1313. *Naucrates ductor* (Linnaeus). *Pilot-fish*; *Romero*.**

Atlantic Coast, from Cape Cod to the West Indies.

Gasterosteus ductor Linnaeus, Syst. Nat., ed. x, 295, 1758, "in pelago."**Genus 415. SERIOLA Cuvier.***Seriola* Cuvier, Règne Animal, ed. 2, II, 205, 1829 (*dumerili*).**1314. *Seriola dorsalis* (Gill). *Yellow-tail*.**

Pacific Coast, from Point Conception southward to Mazatlan; Santa Barbara Islands.

Halatractus dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 84, Cape San Lucas.**1315. *Seriola zonata* (Mitchill). *Shark Pilot*; *Rudder-fish*.**

Atlantic Coast of the United States, from Cape Cod to Cape Hatteras.

Scomber zonatus Mitchill, Trans. Lit. Phil. Soc. N. Y. 1815, 427, New York Bay.**1315a. *Seriola zonata carolinensis* Holbrook.**

Gulf of Mexico, and on Atlantic Coast north to Cape Hatteras.

Seriola carolinensis Holbrook, Ichthyol. S. C., 72, 1860, Charleston, S. C.**1316. *Seriola lalandi* Cuvier & Valenciennes. *Great Amber-fish*; *Amber Jack*; *Coronado*.**

West Florida to Brazil; Key West.

Seriola lalandi Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 208, 1833, Brazil.**1317. *Seriola dumerili* (Risso). *Amber Jack*; *Coronado*.**

Mediterranean to West Indies, north to Key West and Pensacola.

Caranz dumerili Risso, Ichthyol. Nice, 175, pl. 6, fig. 20, 1810, Nice.**Subgenus ZONICHTHYS Swainson.***Zonichthys* Swainson, Nat. Hist. Class. Fishes, II, 1839 (*fasciatus*).**1318. *Seriola mazatlana* Steindachner.**

West coast of Mexico, Mazatlan.

Seriola mazatlana Steindachner, Ichth. Beitr., v, 8, 1876, Mazatlan, Mexico.**1319. *Seriola fasciata* (Bloch). *Madregal*.**

West Indies, north to Charleston, South Carolina.

Scomber fasciatus Bloch, Ichthyologia, pl. 341, 1793, no locality.**1320. *Seriola rivoliana* Cuvier & Valenciennes.**

Mediterranean to Brazil, West Indies, and South Carolina; Florida coast.

Seriola rivoliana Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 207, 1833, the Greek Archipelago.**1321. *Seriola falcata* Cuvier & Valenciennes. *Madregal*; "Rock Salmon."**

West Indies, north to Florida and Carolina.

Seriola falcata Cuv. & Val., Hist. Nat. Poiss., IX, 210, 1833, Gulf of Mexico.**Genus 416. ELAGATIS Bennett.***Elagatis* Bennett, Narrative of a Whaling Voyage, II, 283, 1840 (*bipinnulata*).**1322. *Elagatis bipinnulatus* (Quoy & Gaimard). *Runner*; *Yellow-tail*.**

Tropical seas; West Indies; Long Island.

Seriola bipinnulata Quoy & Gaimard, Voy. Uran., I, 363, pl. 61, fig. 3, 1824.

Genus 417. **DECAPTERUS** Bleeker. *Mackerel Scads.*

Decapterus Bleeker, *Natuurk. Tydschr.*, v, 1855, 417 (*kurra*).

1323. **Decapterus punctatus** (Agassiz). *Scad; Round Robin; Cigar-fish; Quia-quia.*
Cape Cod to Brazil, coasts of Florida and the West Indies.
Caranx punctatus Agassiz, *Spix, Pisc. Bras.*, 108, pl. 56a, fig. 2, 1829, Brazil.

1324. **Decapterus scombrinus** (Valenciennes).

Galapagos Islands.

Caranx scombrinus Valenciennes, *Voyage de la Vénus*, 332, pl. 7, fig. 1, 1846, Galapagos Islands.

1325. **Decapterus sanctæ-helenæ** Cuvier & Valenciennes.

South America, both coasts; Cuba.

Decapterus sanctæ-helenæ Cuvier & Valenciennes, *Hist. Nat. Poiss.*, ix, 37, 1833, St. Helena.

1326. **Decapterus hypodus** Gill.

Cape San Lucas.

Decapterus hypodus Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 261, Cape San Lucas.

1327. **Decapterus macarellus** (Cuvier & Valenciennes). *Mackerel Scad; Antonino.*

Warm parts of the Atlantic, northward to Cape Cod.

Caranx macarellus Cuv. & Val., *Hist. Nat. Poiss.*, ix, 40, 1833, Martinique.

Genus 418. **TRACHURUS** Rafinesque. *Saurels.*

Trachurus Rafinesque, *Indice d'Ittiologia Siciliana*, 20, 1810 (*trachurus*).

1328. **Trachurus picturatus** (Bowdich). *Horæ-mackerel; Xurel.*

Coast of California, from San Francisco southward to the Galapagos Islands and Chile; Mediterranean and New Zealand.

Seriola picturata Bowdich, *Excursion to Madeira*, 123, fig. 27, 1825, Madeira.

1329. **Trachurus trachurus** (Linnaeus). *Gascon; Saurel.*

North Atlantic, chiefly on the coast of Europe, south to Spain and Naples; Newport, Rhode Island; Pensacola; also on the west coast at Cape San Lucas.

Scomber trachurus Linnaeus, *Syst. Nat.*, ed. x, 298, 1758, Mediterranean.

Genus 419. **TRACHUROPS** Gill.

Trachurops Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 431 (*crumenophthalmus*).

1330. **Trachurops crumenophthalmus** (Bloch). *Goggler; Big-eyed Scad; Goggle-eye Jack; Chicharro.*

Atlantic coast of the United States, Central America, South America, and Africa; West Indies; Cape San Lucas; Panama.

Scomber crumenophthalmus Bloch, *Ichthyol.*, pl. 343, 1793, Acara in Guinea.

Genus 420. **HEMICARANX** Bleeker.

Hemicaranx Bleeker, *Versl. Kon. Ak. Wet.*, xiv, 134, 1862 (*marginatus*).

1331. **Hemicaranx amblyrhynchus** (Cuvier & Valenciennes).

Cape Hatteras to Brazil; West Indies; Carolina and Florida.

Caranx amblyrhynchus Cuvier & Valenciennes, *Hist. Nat. Poiss.*, ix, 100, pl. 248, 1833, Brazil.

1332. **Hemicaranx atrimanus** (Jordan & Gilbert).

Pacific Coast of tropical America; Panama.

Caranx atrimanus Jordan & Gilbert, *Bull. U. S. F. C.*, i, 1881, 308, Panama.

1333. **Hemicaranx secundus** (Poey). *Segundo; Volantin.*

Cuba.

Caranx secundus, Poey, *Memorias*, ii, 223, 1860, Cuba.

1334. **Hemicaranx furthii** (Steindachner).

Panama.

Caranx furthii Steindachner, *Ichth. Beitr.*, iv, 12, 1875, Panama.

1335. *Hemicarax leucurus* (Günther).
Pacific Coast of tropical America; Panama.
Caranops leucurus Günther, Proc. Zool. Soc. Lond. 1864, 24, Panama.
- Genus 421. **CARANX** Lacépède.
Caranx Lacépède, Hist. Nat. Poiss., III, 72, 1802 (*trachurus*, *speciosus*, *carangus*, *ruber*, etc.).
- Subgenus SELAR Bleeker.
Selar Bleeker, Verhandl. Batav. Genootsch., XIV, 1851 (*hoops*).
1336. *Caranx vinctus* Jordan & Gilbert. *Cocinera*.
Pacific Coast of Mexico, Mazatlan to Punta Arenas; Gulf of California;
Central America.
Caranx vinctus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 349, Mazatlan.
- Subgenus **CARANX** Lacépède.
1337. *Caranx ruber* (Bloch). *Cibi*; *Carbonero*; *Green Jack*.
West Indies.
Scomber ruber Bloch, Ichthyologia, pl. 342, 1793, Ste. Croix.
1338. *Caranx bartholomæi* Cuvier & Valenciennes. *Yellow Jack*; *Cibi Amarillo*.
West Indies, northward to Florida and North Carolina; Cuba.
Caranx bartholomei Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 100, 1833,
St. Bartholomew.
- Subgenus **TRICROPTERUS** Rafinesque.
Tricropterus Rafinesque, Caratteri Alcuni Nuovi Generi, 41, 1810 (*carangus* =
hippos).
1339. *Caranx hippos* (Linnaeus). *Crevallé*; *Toro*; *Horse-cavallé*; *Crevally Jack*;
Jiguagua.
Warm seas generally, both coasts of tropical America, north to Cape Cod
and Gulf of California; East Indies.
Scomber hippos Linnaeus, Syst. Nat., ed. XII, 494, 1766, Charleston, S. C.
- Subgenus **PARATRACTUS** Gill.
Paratractus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 432 (*pisquetus* = *crysos*).
1340. *Caranx crysos* (Mitchill). *Hard-tail*; *Runner*; *Jurel*; *Yellow Mackerel*;
Cojinera; *Crevallé*.
Cape Cod to Brazil.
Scomber crysos Mitchell, Trans. Lit. Phil. Soc. N. Y. 1815, 424, New York.
1341. *Caranx caballus* (Günther). *Cocinero*; *Jurel*; *Cocinero Dorado*.
Pacific Coast of tropical America, San Diego to Panama.
Caranx caballus Günther, Fish. Centr. Amer., 431, 1869, Panama.
- Subgenus **CARANGICHTHYS** Bleeker.
Carangichthys Bleeker, Bijdragen Ichthyol. Fauna Celebes, III, 760, about
1852 (*typus*).
1342. *Caranx marginatus* Gill.
Pacific Coast of Mexico; Mazatlan and Panama.
Caranx marginatus Gill, Proc. Ac. Nat. Sci. Phila. 1866, 166, Panama.
1343. *Caranx latus* Agassiz. *Jurel*; *Xurel*; *Horse-eye Jack*.
All warm seas, north to Virginia; west coast of Mexico; Panama, Clarion
Island, and Chatham Island.
Caranx latus Agassiz, Spix, Pisc. Bras., 105, 1829, Brazil.
1344. *Caranx medusicola*, Jordan & Starks.
Mazatlan, Mexico.
Caranx medusicola Jordan & Starks, in Jordan, Fishes Sinaloa, 430, pl. 34,
1895, Mazatlan.
1345. *Caranx lugubris* Poey. *Tñosa*.
Rocky islands in the tropics; Clarion Island (Revillagigedo Archipelago);
West Indies; mid-Atlantic; mid-Pacific.
Caranx lugubris Poey, Memoriae, II, 222, 1860, Cuba.

- 1346. *Caranx melampygus* Cuvier & Valenciennes.**
Pacific Ocean generally; Revillagigedo Islands.
Caranx melampygus Cuv. & Val., Hist. Nat. Poiss., IX, 116, 1833, East Indies.
- Subgenus URASPIS Bleeker.
Uraspis Bleeker, Verhandl. Batav. Genootsch., XXIV, 1851 (*boops*).
- 1347. *Caranx guara* (Bonnaterre). "Enraro."**
Tropical parts of the Atlantic; Mediterranean; Africa; Brazil; Madeiras; South Pacific.
Scomber guara Bonnaterre, Encycl., 139, pl. 58, 1788, on a specimen from America in Jussieu's collection.
- Genus 422. GNATHANODON Bleeker.
Gnathanodon Bleeker, Verh. Batav. Genootsch., XXIV, Makreele, 1851 (*speciosus*).
- 1348. *Gnathanodon speciosus* (Forskål). *Mojarra Dorada*.**
Tropical parts of the Pacific Ocean; East Indies; Mazatlan to Panama.
Scomber speciosus Forskål, Descr. Anim., XII, 54, 1775, Red Sea.
- Genus 423. CARANGOIDES Bleeker.
Carangoides Bleeker, Verh. Batav. Genootsch., XXIV, Makreele, 1851 (*plagiotania*).
- 1349. *Carangoides orthogrammus* (Jordan & Gilbert).**
Revillagigedo Islands; Pacific islands.
Caranx orthogrammus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 226, Sulphur Bay, Clarion Island (Revillagigedo Archipelago).
- Genus 424. CITULA Cuvier.
Citula Cuvier, Règne Animal, ed. I, 315, 1817 (*armata*).
- 1350. *Citula dorsalis* (Gill). *Pámpano*.**
Pacific Coast of tropical America; Mazatlan; Panama.
Carangoides dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 166, Panama.
- Genus 425. ALECTIS Rafinesque.
Alectis Rafinesque, Analyse de la Nature, 1815 (substitute for *Gallus*).
- 1351. *Alectis ciliaris* (Bloch). *Thread-fish; Cobbler-fish; Sunfish*.**
Tropical America on both coasts, ranging north to Cape Cod and Mazatlan, Florida Keys and Cuba.
Zeus ciliaris Bloch, Ichthyol., VI, 29, 1788, East Indies.
- Genus 426. HYNNIS Cuvier & Valenciennes.
Hynniss Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 195, 1833 (*gorcensis*).
- 1352. *Hynniss cubensis* (Poey).**
Cuba.
Hynniss cubensis Poey, Memorias, II, 235, 1860, Havana.
- 1353. *Hynniss hopkinsi* Jordan & Starks. *Pámpano*.**
Puerto Viejo, near Mazatlan.
Hynniss hopkinsi Jordan & Starks, in Jordan, Fishes Sinaloa, 435, pl. 35, 1895, Mazatlan.
- Genus 427. VOMER Cuvier & Valenciennes.
Vomer Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 189, 1833 (*brownii*).
- 1354. *Vomer dorsalis* Gill.**
West Indies and west coast of Africa.
Vomer dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 436; after Günther.
- 1355. *Vomer setipinnis* (Mitchill). *Blunt-nosed Shiner; Jobobado; Moonfish; Horsesh.***
Both coasts of America, from Maine to Florida, and Cape San Lucas to Peru.
Zeus setipinnis Mitchill, Trans. Lit. Philos. Soc. N. Y. 1815, 384, New York.

1356. *Vomer spixii* (Swainson).

West Indies south to Brazil.

Platysonus spixii Swainson, Class. Fishes, etc., II, 250 and 406, 1839, Brazil; after Spix & Agassiz, pl. 57.Genus 428. *SELENE* Lacépède. *Moonfishes.**Selene* Lacépède, Hist. Nat. Poiss., IV, 560, 1803 (*argentea* = young of *vomer*).1357. *Selene cerstedii* Lütken.

Pacific Coast, Mazatlan to Panama.

Selene cerstedii Lütken, Spolia Atlantica, 144, 1880, Punta Arenas.1358. *Selene vomer* (Linnaeus). *Moonfish; Jorobado; Look-down; Horshead.*

Tropical America, on both coasts; Cape Cod to Brazil; Lower California to Peru.

Zeus vomer Linnaeus, Syst. Nat., ed. x, 266, 1758, America.Genus 429. *CHLOROSCOMBRUS* Girard. *Casabes.**Chloroscombrus* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168 (*cosmopolita*).1359. *Chloroscombrus orqueta* Jordan & Gilbert. *Orqueta; Xurel de Castilla.*

Pacific Coast of tropical America; Magdalena Bay to Panama.

Chloroscombrus orqueta Jordan & Gilbert, Proc. U. S. N. M. 1882, 646, Panama.1360. *Chloroscombrus chrysurus* (Linnaeus). *Casabe; Bumper.*

Cape Cod to Brazil; common on our South Atlantic Coast and in Cuba.

Scomber chrysurus Linnaeus, Syst. Nat., ed. XII, 494, 1766, Charleston, S. C.Genus 430. *TRACHINOTUS* Lacépède. *Pámpanos.**Trachinotus* Lacépède, Hist. Nat. Poiss., III, 79, 1802 (*falcatus*).1361. *Trachinotus glaucus* (Bloch). *Gaff-topsail; Pámpano; Old Wife; Palometa.*

Tropical America, from Virginia to the Caribbean Sea.

Chætodon glaucus Bloch, Ichthyol., pl. 210, 1787, Martinique; on a figure by Plumier.1362. *Trachinotus rhodopus* Gill. *Pampanito.*

Pacific Coast of tropical America, south to Panama.

Trachinotus rhodopus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 85, Cape San Lucas.1363. *Trachinotus falcatus* (Linnaeus). *Round Pámpano; Palometa; Permit of Indian River.*

East coast of United States, Cape Cod to Florida.

Labrus falcatus Linnaeus, Syst. Nat., ed. x, 284, 1758, America.1364. *Trachinotus rhomboides* (Bloch). *Round Pámpano.*

West Indies to Brazil.

Chætodon rhomboides Bloch, Syst. Ichth., pl. 209, 1787, Martinique; on a drawing by Plumier.1365. *Trachinotus culveri* Jordan & Starks.

Astillero, at Mazatlan, Mexico.

Trachinotus culveri Jordan & Starks in Jordan, Fishes Sinaloa, 439, pl. 36, 1895, Mazatlan.1366. *Trachinotus kennedyi* Steindachner.

Tropical America; Magdalena Bay to Panama; Pacific Coast.

Trachinotus kennedyi Steindachner, Ichth. Beitr., III, 47, pl. VII, 1875, Magdalena Bay.1367. *Trachinotus goodiei* Jordan & Evermann. *Permit; Palometa; Great Pámpano.*

West Indies, north to southern Florida.

Trachinotus goodiei, Jordan & Evermann, Fishes North and Middle America, 943, 1896, Key West, Fla.

1368. *Trachinotus argenteus* Cuvier & Valenciennes.
Atlantic Coast.
Trachinotus argenteus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 413, 1831,
New York and Rio Janeiro.
1369. *Trachinotus carolinus* (Linnaeus). *Common Pompano; Pámpano; Cobbler-fish.*
South Atlantic and Gulf coasts of United States; Cape Cod; West Indies;
Brazil.
Gasterosteus carolinus Linnaeus, Syst. Nat., ed. XII, 490, 1766, Carolina.
1370. *Trachinotus paloma* Jordan & Starks.
Cape San Lucas, Mazatlan, San Juan Lagoon.
Trachinotus paloma Jordan & Starks, in Jordan, Fishes Sinaloa, 437, 1895,
Mazatlan, Mexico.
1371. *Trachinotus cayennensis* Cuvier & Valenciennes.
Cayenne.
Trachinotus cayennensis Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 417,
1831, Cayenne.

Family CXXVII. POMATOMIDÆ. The Bluefishes.

Genus 431. POMATOMUS Lacépède.

Pomatomus Lacépède, Hist. Nat. Poiss., IV, 436, 1802 (*skib*).

1372. *Pomatomus saltatrix* (Linnaeus). *Bluefish; Snap Mackerel; Skipjack.*
Atlantic and Indian oceans.
Perca saltatrix Linnaeus, Syst. Nat., ed. x, 1, 293, 1758, Carolina.

Family CXXVIII. RACHYCENTRIDÆ. Sergeant-Fishes.

Genus 432. RACHYCENTRON Kaup.

Rachycentron Kaup, Isis, XIX, col. 89, 1826 (*typus*).

1373. *Rachycentron canadum* (Linnaeus). *Sergeant-fish; Crab-eater; Cobia.*
In all warm seas; Atlantic Coast, north to Cape Cod.
Gasterosteus canadus Linnaeus, Syst. Nat., ed. XII, 491, 1766, Carolina.

Family CXXIX. NOMEIDÆ.

Genus 433. NOMEUS Cuvier.

Nomeus Cuvier, Règne Animal, ed. 1, II, 315, 1817 (*gronovii*).

1374. *Nomeus gronovii* (Gmelin). *Portuguese Man-of-war-fish; Harder; Pastor.*
Tropical parts of the Atlantic and Indian oceans; Sargasso Sea; Florida;
Bermuda; Woods Hole, Massachusetts.
Gobius gronovii Gmelin, Syst. Nat., ed. XIII, 1205, 1788, Tropical America;
after Gronow.

Genus 434. PSENES Cuvier & Valenciennes.

Psenes Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 259, 1833 (*cyanophrys*).

1375. *Psenes pellucidus* Lütken.
Gulf Stream, at 32° 24' N., 76° 55' W., in 528 fathoms.
Psenes pellucidus Lütken, Spolia Atlantica, 516 (109), fig. 601 (198), 1880, Strait
of Surabaja.
1376. *Psenes cyanophrys* Cuvier & Valenciennes.
Open sea; Atlantic, Pacific, and Indian oceans; Jamaica and Martinique.
Psenes cyanophrys Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 260, pl. 265,
1833, New Iceland.
1377. *Psenes maculatus* Lütken.
Open Atlantic.
Psenes maculatus Lütken, Spolia Atlantica, 110, 1880, open Atlantic, 39° N.,
25° 4' S., and between 34° and 27° W., in 600 to 700 fathoms.

1378. *Psenes regulus* Poey.

Coasts of Cuba; East Indies.

Psenes regulus Poey, Synopsis, 375, 1868, Cuba.

Family CXXX. CORYPHÆNIDÆ. The Dolphins.

Genus 435. CORYPHÆNA Linnæus.

Coryphæna Linnæus, Syst. Nat., ed. x, 261, 1758 (*hippurus*).1379. *Coryphæna hippurus* Linnæus. *Common Dolphin; Dorado; Dourade.*

Pelagic to Cape Cod and northward, South Carolina to Texas.

Coryphæna hippurus Linnæus, Syst. Nat., ed. x, 261, 1758, open seas.1380. *Coryphæna equisetis* Linnæus. *Small Dolphin.*

Open Atlantic, West Indies.

Coryphæna equisetis Linnæus, Syst. Nat., ed. x, 261, 1758 (misprinted *equiselis*), high seas; after Osbeck.

Family CXXXI. LAMPRIDÆ. The Mariposas.

Genus 436. LAMPRIS Retzius.

Lampris Retzius, Nya Handling, III, 91, 1799 (*guttatus = luna*).1381. *Lampris luna* (Gmelin). *Mariposa; Opah; San Pedro Fish; Cravo; Jerusalem Haddock; Glance-fish; Gudlar; Moonfish.*

Atlantic and Pacific; Madeira; Newfoundland; Maine; Cuba; Monterey.

Zeus luna Gmelin, Syst. Nat., ed. XIII, 1225, 1788, Normandy.

Family CXXXII. PTERACLIDIDÆ.

Genus 437. PTERACLIS Gronow.

Pteraclis Gronow, Acta Helvetica, VII, 44, 1772 (*relifera*).1382. *Pteraclis carolinus* Cuvier & Valenciennes.

Coast of South Carolina.

Pteraclis carolinus Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 368, 1833, off coast South Carolina.

Family CXXXIII. BRAMIDÆ. The Pomfrets.

Genus 438. TARACTES Lowe.

Taractes Lowe, Proc. Zool. Soc. Lond. 1863, 82 (*asper*; probably young of *Brama longipinnis*).1383. *Taractes saussurii* (Lunel).

Havana.

Brama saussurii Lunel, Revue du Genre *Brama*, Mém. Soc. Phys. Hist. Nat. Genève, XVIII, 1865, 185, tab. 2, Cuba.Genus 439. BRAMA Bloch & Schneider. *Pomfret.**Brama* Bloch & Schneider, Syst. Ichth., 98, 1801 (*raii*).1384. *Brama agassizii* Poey.

Cuba.

Brama agassizii Poey, Memorias, II, 204, 1860, Havana.1385. *Brama brevoortii* Poey.

Cuba.

Brama brevoortii Poey, Memorias, II, 206, 1860, Havana.1386. *Brama raii* (Bloch). *Pomfret; Castagnole; Rondanin.*

Open seas; Europe; Faroe Islands; Bermuda; Grand Banks; Pacific Coast, from Santa Catalina to Puget Sound.

Sparus raii Bloch, Ichthyol., tab. 273, 1791, after Ray, etc.

Family CXXXIV. STEINEGERIDÆ.

Genus 440. STEINEGERIA Jordan & Evermann.

Steinegeria Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 467 (*rubescens*).1387. *Steinegeria rubescens* Jordan & Evermann.

Gulf of Mexico.

Steinegeria rubescens Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 467, Snapper Banks, off Pensacola, Florida.

Family CXXXV. CENTROLOPHIDÆ. The Rudder-Fishes.

Genus 441. CENTROLOPHUS Lacépède *Black Ruffs*.*Centrolophus* Lacépède, Hist. Nat. Poiss., IV, 441, 1803 (*niger*).1388. *Centrolophus niger* (Gmelin). *Blackfish*; *Black Ruffe*; *Borlase*.

Coasts of southern Europe; Dennis, Massachusetts.

Percu niger Gmelin, Syst. Nat., 1321, 1788, Cornwall.

Genus 442. PALINURICHTHYS Bleeker.

Palinurichthys Bleeker, Enum. Spec. Pisc. Arch. Ind., 22, November, 1859, (*perciiformis*).1389. *Palinurichthys perciiformis* (Mitchill). *Rudder-fish*; *Log-fish*.

Atlantic Coast of North America, from Cape Hatteras to Maine; Cornwall.

Coryphena perciiformis Mitchill, Am. Month. Mag., II, 1818, 244, N. Y. Harbor.

Family CXXXVI. STROMATEIDÆ. The Flatolas.

Genus 443. RHOMBUS Lacépède. *Butter-fishes*.*Rhombus* Lacépède, Hist. Nat. Poiss., II, 321, 1800 (*alepidotus*).

Subgenus RHOMBUS Lacépède.

1390. *Rhombus paru* (Linnaeus). *Harvest-fish*; *Pappy-fish*.

South Atlantic Coast of United States, West Indies, Cape Cod to Jamaica and Brazil.

Stromateus paru Linnaeus, Syst. Nat., ed. x, 248, 1758, Jamaica; based on Sloane.1391. *Rhombus xanthurus* (Quoy & Gaimard).

Coast of South America, Cayenne to Montevideo.

Seserinus xanthurus Quoy & Gaimard, Voy. Freyc., Zool., 384, 1824, Brazil.

Subgenus PALOMETA Jordan & Evermann.

Palometa Jordan & Evermann, Fishes N. and M. A., 966, 1896 (*palometa*).1392. *Rhombus palometa* (Jordan & Bollman).

Pacific Ocean, off Colombia.

Stromateus palometa Jordan & Bollman, Proc. U. S. N. M. 1889, 156, off coast of Colombia, 8° 16' 30" N., 79° 37' 45" W., at Albatross Station 2804.1393. *Rhombus medius* (Peters). *Palometa*.

Pacific Coast of North America, Mazatlan to Panama.

Stromateus medius Peters, Berl. Monatsb., 1869, 707, Mazatlan, Mexico.1394. *Rhombus simillimus* (Ayres). *California Pompano*.

Pacific Coast of United States, Puget Sound to San Diego.

Poronotus simillimus Ayres, Proc. Cal. Ac. Sci. 1860, 84, San Francisco.

Subgenus PORONOTUS Gill.

Poronotus Gill, Cat. Fish. E. Coast N. Am., 35, 1861 (*triacanthus*).1395. *Rhombus triacanthus* (Peck). *Dollar-fish*; *Harvest-fish*; *Butter-fish*; *Lafayette*.

Nova Scotia to Florida.

Stromateus triacanthus Peck, Mem. Am. Ac., II, part 2, 48, pl. 2, fig. 2, 1800, Piscataqua River, New Hampshire.

Family CXXXVII. ICOSTEIDÆ. The Rag-Fishes.

Genus 444. ICICHTHYS Jordan & Gilbert.

Icichthys Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 305 (*lockingtoni*).1396. *Icichthys lockingtoni* Jordan & Gilbert.

San Francisco, California.

Icichthys lockingtoni Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 305, off San Francisco.

Genus 445. SCHEDEPHILUS Cocco.

Schedophilus Cocco, Giorn. Innom. Messina, Ann., III, 7, 57, 1834 (*medusophagus*).1397. *Schedophilus medusophagus* Cocco.

Mid-Atlantic; Mediterranean; Ireland; Samoa.

Schedophilus medusophagus Cocco, Giorn. Innom. Messina, III, 7, 57, Messina.

Genus 446. ICOSTEUS Lockington.

Icosteus Lockington, Proc. U. S. Nat. Mus. 1880, 63 (*ænigmaticus*).1398. *Icosteus ænigmaticus* Lockington.

Coast of California, Oregon, and Washington.

Icosteus ænigmaticus Lockington, Proc. U. S. Nat. Mus., III, 1880, 63, off San Francisco.

Genus 447. ACROTUS Bean.

Acrotus Bean, Proc. U. S. Nat. Mus. 1887, 631 (*willoughbyi*).1399. *Acrotus willoughbyi* Bean.

On coast of Washington.

Acrotus willoughbyi Bean, Proc. U. S. Nat. Mus. 1887, 631, Quinaielt Agency, Washington.

Family CXXXVIII. ZAPRORIDÆ.

Genus 448. ZAPRORA Jordan.

1400. *Zaprora silenus* Jordan.

Known only from the harbor at Nanaimo, Vancouver Island, British Columbia.

Zaprora silenus Jordan, Proc. Cal. Ac. Sci., 1896, 202, harbor at Nanaimo, Vancouver Island.

Family CXXXIX. GRAMMICOLEPIDIDÆ.

Genus 449. GRAMMICOLEPIS Poey.

Grammicolepis Poey, Anal. Soc. Esp. Hist. Nat., II, 1873 (*brachiusculus*).1401. *Grammicolepis brachiusculus* Poey.

Cuba.

Grammicolepis brachiusculus Poey, Anal. Soc. Esp. Hist. Nat., II, 1873, Cuba.

Family CXL. TETRAGONURIDÆ. The Square-Tails.

Genus 450. TETRAGONURUS Risso.

Tetragonurus Risso, Ichth. Nice, 347, 1810 (*cuvieri*).1402. *Tetragonurus cuvieri* Risso. *Escolar de Natura; Courpata; Square-tail; Sea Raven.*

Nice; Toulon and Marseilles; Madeira.

Tetragonurus cuvieri Risso, Ichth. Nice, 347, 1810, Nice.

Family CXXI. PEMPHERIDÆ. The Deep-water Catalufas.

Genus 451. PEMPHERIS Cuvier & Valenciennes.

Pempheris Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 296, 1831 (*onalensis*).1403. *Pempheris mexicanus* Cuvier & Valenciennes.

Pacific Coast of Mexico, Acapulco.

Pempheris mexicanus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 308, 1831, Acapulco, Mexico.1404. *Pempheris schomburgki* Müller & Troschel.

Barbados and Cuba.

Pempheris schomburgki Müller & Troschel, in Schomburgk's History of Barbados, 669, 1845, Barbados.1405. *Pempheris mulleri* Poey. *Catalufa de la Alto*.

West Indies to Brazil; coast of Cuba.

Pempheris mulleri Poey, Memorias, II, 203, 1860, Cuba.1406. *Pempheris poeyi* Bean.

Cuba.

Pempheris poeyi Bean, Proc. U. S. Nat. Mus. 1885, 229, Havana.

Group PERCOIDEA. The Perch-like Fishes.

Family CXLII. ELASSOMATIDÆ. Pigmy Sunfishes.

Genus 452. ELASSOMA Jordan.

Elassoma Jordan, Bull. U. S. Nat. Mus., x, 50, 1877 (*zonata*).1407. *Elassoma zonatum* Jordan.

Southern Illinois to Texas and Alabama.

Elassoma zonata Jordan, Bull. U. S. Nat. Mus., x, 50, 1877, Little Red River, White County, Ark.1408. *Elassoma evergladei* Jordan.

Swamps of southern Georgia and Florida, locally common in dark waters tributary to the Everglades.

Elassoma evergladei Jordan, Proc. U. S. Nat. Mus. 1884, 323, Indian, St. Johns, and Suwanee rivers, Florida.

Family CXLIII. CENTRARCHIDÆ. The Sunfishes.

Genus 453. POMOXIS Rafinesque. Crappies.

Pomoxis Rafinesque, Amer. Month. Magazine 1818, 41 (*annularis*).1409. *Pomoxis annularis* Rafinesque. *Crappie*; *Bachelor*; *Sac-a-lait*; *New Light*; *Campbellite*; *Crapet*.

Eastern United States, from the Great Lakes south to Texas and west to Kansas and Nebraska.

Pomoxis annularis Rafinesque, Amer. Month. Mag., 1818, 41, Falls of the Ohio River.1410. *Pomoxis sparoides* (Lacépède). *Calico Bass*; *Grass Bass*; *Barfish*; *Strawberry Bass*.

Great Lakes and Upper Mississippi Valley to New Jersey and southward to Florida, Louisiana, and Texas.

Labrus sparoides Lacépède, Hist. Nat. Poiss., III, 517, 1802, South Carolina.Genus 454. CENTRARCHUS Cuvier & Valenciennes. *Round Bass*.*Centrarchus* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 84, 1829 (*iridicus*).1411. *Centrarchus macropterus* (Lacépède). *Round Sunfish*; *Plier*.

Lowland streams from Virginia southward to Florida and Louisiana; northward in the Mississippi Valley to southern Illinois.

Labrus macropterus Lacépède, Hist. Nat. Poiss., III, 447, 1802, Charleston, S. C.

Genus 455. **ACANTHARCHUS** Gill.*Acantharchus* Gill, Amer. Jour. Sci. Arts, 1864, 92 (*pomotis*).1412. **Acantharchus pomotis** (Baird). *Mud Sunfish*.

Southern New York to South Carolina.

Centrarchus pomotis Baird, Ninth Smithsonian. Report 1854, 325, New Jersey; New York.Genus 456. **AMBLOPLITES** Rafinesque. *Rock Bass*.*Ambloplites* Rafinesque, Ichth. Ohiensis, 33, 1820 (*ichtheloides* = *rupestris*).1413. **Ambloplites rupestris** (Rafinesque). *Common Rock Bass; Red-eye; Red-eye Perch; Goggle-eye*.

Vermont to Great Lakes region and Manitoba, south to Louisiana; very abundant west of the Alleghanies.

Bodianus rupestris Rafinesque, Am. Month. Mag., 1817, 120, Lakes of New York, Vermont, and Canada.1413a. **Ambloplites rupestris cavifrons** Cope.

Roanoke River, Virginia.

Ambloplites cavifrons Cope, Jour. Ac. Nat. Sci. Phila. 1868, 217, Roanoke River, Virginia.Genus 457. **ARCHOPLITES** Gill.*Archoplites* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*interruptus*).1414. **Archoplites interruptus** (Girard). *Sacramento Perch*.

Sacramento and San Joaquin rivers, California.

Centrarchus interruptus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 129, San Joaquin and Sacramento rivers, California.Genus 458. **CHÆNOBRYTTUS** Gill.*Chænobryttus* Gill, Amer. Jour. Sci. Arts 1864, 92 (*melanops* = *gulosus*).1415. **Chænobryttus gulosus** (Cuvier & Valenciennes). *Warmouth; "Goggle-eye."*

Eastern United States from the Great Lakes to Florida and Texas, west to Kansas and the Dakotas; chiefly west or south of the Alleghanies; common in South Carolina.

Pomotis gulosus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 498, 1829, Lake Pontchartrain and lagoons about New Orleans.Genus 459. **ENNEACANTHUS** Gill.*Enneacanthus* Gill, Amer. Jour. Sci. Arts 1864, 92 (*obesus*).1416. **Enneacanthus obesus** (Baird).

Charles River, Massachusetts, to Florida.

Pomotis obesus Baird, Ninth Smithsonian. Report, 1854, 324, Beesley Point, New Jersey.1417. **Enneacanthus gloriosus** (Holbrook).

Atlantic States, from New Jersey to Florida.

Bryttus gloriosus Holbrook, Jour. Ac. Nat. Sci. Phila. 1855, 51, Cooper River, South Carolina.Genus 460. **MESOGONISTIUS** Gill.*Mesogonistius* Gill, Amer. Jour. Sci. Arts 1864, 92 (*chaetodon*).1418. **Mesogonistius chaetodon** (Baird). *Black-banded Sunfish*.

New Jersey to Maryland.

Pomotis chaetodon Baird, Ninth Smithsonian. Report, 1854, 324, Cedar Swamp Creek, New Jersey.

Genus 461. *APOMOTIS* Rafinesque.*Apomotis* Rafinesque, Jour. de Physique 1819, 420 (*cyanelus*).

1419. *Apomotis cyanelus* (Rafinesque). *Red-eye; Blue-spotted Sunfish; Green Sunfish; Little Red-eye.*

Great Lakes region to Mexico; very abundant from Ohio southwestward to the Rio Grande.

Lepomis cyanelus Rafinesque, Jour. de Physique 1819, 420, Ohio River.

1420. *Apomotis ischyryus* (Jordan & Nelson).

Upper Mississippi Valley.

Lepopomus ischyryus Jordan & Nelson, Bull. U. S. Nat. Mus., x, 25, 1877, Illinois River, Illinois.

1421. *Apomotis phenax* Cope & Jordan.

Beesley Point, New Jersey.

Apomotis phenax Cope & Jordan, Bull. U. S. Nat. Mus., x, 26, 1877, Beesley Point, New Jersey; locality possibly erroneous.

1422. *Apomotis punctatus* (Cuvier & Valenciennes).

South Carolina to Florida.

Bryttus punctatus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 462, 1831, Charleston, South Carolina.

1423. *Apomotis symmetricus* (Forbes).

Mississippi Valley; Illinois to Louisiana and Texas.

Lepomis symmetricus Forbes, in Jordan & Gilbert, Synopsis, 473, 1883, Illinois River, Illinois.Genus 462. *LEPOMIS* Rafinesque. *The Sunfishes.**Lepomis* Rafinesque, Jour. de Physique 1819, 402 (*auritus*).Subgenus *LEPOMIS* Rafinesque.

1424. *Lepomis auritus* (Linnaeus). *Yellowbelly; Redbreast Bream.*

Maine to Louisiana; abundant in all streams east of the Alleghanies.

Labrus auritus Linnaeus, Syst. Nat., ed. x, 283, 1758, Philadelphia.

- 1424a. *Lepomis auritus solis* (Cuvier & Valenciennes).

Virginia to Louisiana, in coastwise streams.

Pomotis solis Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 468, 1831, Lake Pontchartrain, Louisiana.

1425. *Lepomis miniatus* Jordan.

Mississippi Valley; southern Illinois to Louisiana and Texas.

Lepomis miniatus Jordan, Bull. U. S. Nat. Mus., x, 26, 1877, Tangipahoa River.Subgenus *XENOTIS* Jordan.*Xenotis* Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 76 (*fallax*).

1426. *Lepomis garmani* Forbes.

Lower Wabash River basin.

Lepomis garmani Forbes, Bull. Ill. Lab. Nat. Hist., vol. II, art. 2, 135, January, 1885, Little Fox River at Phillipstown, and Wabash River and Drew Pond at Carmi, Illinois.

1427. *Lepomis megalotis* (Rafinesque). *Long-eared Sunfish.*

Michigan to Minnesota, South Carolina, and southward to the Rio Grande.

Ichthelis megalotis Rafinesque, Ichth. Ohienensis, 29, 1820, Kentucky, Licking, and Sandy rivers, Kentucky.Subgenus *HELIOPERCA* Jordan.*Helioperca* Jordan, Ann. Lye. Nat. Hist. N. Y. 1876, 335 (*pallidus*).

1428. *Lepomis humilis* (Girard). *Red-spotted Sunfish.*

Ohio and Kentucky to the Dakotas, Kansas, and Texas; locally abundant, especially in the lower Missouri Basin.

Bryttus humilis Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Sugar Loaf Creek, Arkansas.

1429. *Lepomis haplognathus* Cope.
Monterey, Nuevo Leon, Mexico.
Lepomis haplognathus Cope, Proc. Amer. Philos. Soc. 1884 (1885), 168, Monterey, Nuevo Leon, Mexico.
1430. *Lepomis macrochirus* Rafinesque.
Ohio Valley and southwestward to Missouri and Kentucky.
Lepomis macrochira Rafinesque, Jour. de Physique 1819, 420, Ohio, Wabash, Green, and Licking rivers.
1431. *Lepomis pallidus* (Mitchill). *Blue-gill; Blue Bream; Blue Sunfish; Copper-nosed Bream; Dollar-deer.*
Great Lakes to Florida and the Rio Grande.
Labrus pallidus Mitchill, Trans. Lit. and Philos. Soc. N. Y. 1815, 407, New York.
- Genus 463. **EUPOMOTIS** Gill & Jordan.
Eupomotis Gill & Jordan, Field and Forest 1877, 190 (*aureus* = *gibbosus*).
- Subgenus **XYSTROPLITES** Jordan.
Xystroplites Jordan, in Cope, Proc. Amer. Philos. Soc., xvii, 1878, 67 (*gillii* = *pallidus*).
1432. *Eupomotis pallidus* (Agassiz).
Georgia to Texas.
Pomotis pallidus Agassiz, Amer. Jour. Sci. Arts 1854, 303 (name preoccupied in *Lepomis* by *Labrus pallidus* Mitchill, but not in *Eupomotis*).
- Subgenus **EUPOMOTIS** Gill & Jordan.
1433. *Eupomotis heros* (Baird & Girard).
Southern Indiana to Florida and the Rio Grande Basin.
Pomotis heros Baird & Girard, Proc. Ac. Nat. Sci. Phila., March, 1854, 25, Rio Cibolo, Texas.
1434. *Eupomotis holbrooki* (Cuvier & Valenciennes).
Virginia to Florida.
Pomotis holbrooki Cuvier & Valenciennes, Hist. Nat. Poiss., vii, 466, 1831, Charleston, South Carolina.
1435. *Eupomotis euryorus* (McKay).
Upper Great Lakes region.
Lepomis euryorus McKay, Proc. U. S. Nat. Mus. 1881, 89, Lake Huron at Fort Gratiot, Michigan.
1436. *Eupomotis gibbosus* (Linnaeus). *Common Sunfish; Bream; Pumpkin-seed; Sunny; Tobacco-box.*
Great Lakes region to Maine, and southward to Florida, east of the Alleghanies.
Perca gibbosa Linnaeus, Syst. Nat., ed. x, 293, 1758, Carolina; after *Perca fluviatilis gibbosa*, ventre luteo, of Catesby.
- Genus 464. **MICROPTERUS** Lacépède. *Black Bass.*
Micropterus Lacépède, Hist. Nat. Poiss., iv, 325, 1802 (*dolomieu*).
1437. *Micropterus dolomieu* Lacépède. *Small-mouthed Black Bass.*
Lake Champlain to Manitoba and southward on both sides of the mountains to South Carolina and Arkansas.
Micropterus dolomieu Lacépède, Hist. Nat. Poiss., iv, 325, 1802, type locality uncertain, perhaps South Carolina.
1438. *Micropterus salmoides* (Lacépède). *Large-mouthed Black Bass; Onwego Bass; Green Bass; Bayou Bass.*
Rivers of the United States, from the Great Lakes and Red River of the North to Florida, Texas, and Mexico; west to the Dakotas, Nebraska, and Kansas.
Labrus salmoides Lacépède, Hist. Nat. Poiss., iv, 716, 1802, South Carolina.

Family CXLIV. KUHLIIDÆ.

Genus 465. KUHLIA Gill.

Kuhlia Gill, Proc. Ac. Nat. Sci. Phila. 1861, 48 (*ciliatus*).

1439. *Kuhlia arge* Jordan & Bollman.

Galapagos and Revillagigedo archipelagoes.

Kuhlia arge Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 159, Chatham Island, Galapagos Archipelago.

1440. *Kuhlia xenura* (Jordan & Gilbert).

Tropical seas; probably west coast of Central America.

Xenichthys xenurus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 454, type locality supposed to be San Salvador.

Family CXLV. PERCIDÆ. The Perches.

Genus 466. STIZOSTEDION Rafinesque. *American Pike-perches*.

Stizostedion Rafinesque, Ichth. Ohiensis, 23, 1820 (*salmonea*=*vitreum*).

Subgenus STIZOSTEDION Rafinesque.

1441. *Stizostedion vitreum* (Mitchill). *Wall-eyed Pike; Pike-perch; Dory; Glass-eye; Yellow Pike; Blue Pike; Jack Salmon; White-eye*.

Great Lakes region, Upper Mississippi, north to Assiniboia; east to Vermont and Pennsylvania, south to Georgia and Alabama, especially common northward.

Perca vitrea Mitchill, Supp. Am. Month. Mag., II, 1818, 247, Cayuga Lake, N. Y.

Subgenus CYNOPERCA Gill & Jordan.

Cynoperca Gill & Jordan, Bull. U. S. Nat. Mus., x, 44, 1877 (*canadense*).

1442. *Stizostedion canadense* (Smith). *Sauger; Sand Pike*.

Northeastern North America, from Vermont and the Great Lakes to Tennessee, Arkansas, and the upper Missouri; especially abundant northward.

Lucioperca canadense C. H. Smith, in Griffith's edition of Cuvier's Règne Animal, Fishes, 275, pl. 1, 1836, Canada.

1442a. *Stizostedion canadense griseum* (DeKay). *Sauger; Sand Pike; Gray Pike; Pickering*.

Great Lakes region and southwestward to Kentucky and Arkansas.

Lucioperca grisea DeKay, New York Fauna: Fishes, 19, 1842, New York.

1442b. *Stizostedion canadense boreum* (Girard).

Upper Missouri Basin.

Lucioperca borea Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Fort Sarpis, Nebr.

Genus 467. PERCA (Artedi) Linnæus. *River Perch*.

Perca (Artedi) Linnæus, Syst. Nat., ed. X, 1, 1758, and ed. XII, 1, 481, 1766 (*fluviatilis*).

1443. *Perca flavescens* (Mitchill). *Yellow Perch; American Perch; Ringed Perch; Raccoon Perch*.

Fresh waters of the eastern United States, chiefly northward and eastward; abundant in the Great Lakes and in coastwise streams from Nova Scotia to North Carolina; common in the tributaries of the Upper Mississippi, especially in Iowa and Minnesota; unknown from central Ohio southwestward; not known from the Ohio River or the lower Missouri.

Morone flavescens Mitchill, Rept. Fish. N. Y., 18, 1814, near New York City.

Genus 468. PERCINA Haldeman. *Log Perches*.

Percina Haldeman, Jour. Ac. Nat. Sci. Phila., VIII, 1842, 330 (*nebulosa*).

1444. *Percina rex* (Jordan & Evermann).

Roanoke River, Roanoke, Virginia.

Etheostoma rex Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 357, Roanoke River, near Roanoke, Va.

- 1445. *Percina caprodes* (Rafinesque).** *Log Perch; Rookfish; Hog-molly; Hogfish.*
Great Lakes and streams of the South and West from Quebec to Lake Superior, Iowa, and south to Texas, Mississippi, and the Rio Grande.
Sciæna caprodes Rafinesque, Amer. Month. Mag. 1818, 534, Ohio River.
- 1445a. *Percina caprodes zebra* (Agassiz).** *Manitou Darter.*
Lakes of northern Indiana, Michigan, Wisconsin, and northward to Lake Superior.
Pileoma zebra Agassiz, Lake Superior, 308, 1850, Lake Superior.
- Genus 469. *HADROPTERUS* Agassiz.** *Black-sided Darters.*
Hadropterus Agassiz, Am. Jour. Sci. Arts 1854, 305 (*nigrofasciatus*).
- Subgenus *ALVORDIUS* Girard.**
Alvordius Girard, Proc. Ac. Nat. Sci. Phila. 1859, 68 (*maculatus*).
- 1446. *Hadropterus phoxocephalus* (Nelson).**
Ohio to Iowa, south to Kentucky and Oklahoma, in sandy rivers; locally common.
Etheostoma phoxocephalum Nelson, Bull. Ill. Lab. Nat. Hist., 1, 35, 1876, Illinois River and its tributaries.
- 1447. *Hadropterus macrocephalus* (Cope).**
West slope of the Alleghanies from Pennsylvania southward in mountain streams; known from Youghiogheny River, Pennsylvania; North Fork of Holston River, Saltville, Virginia; Middle Fork of Holston River; Glade Spring, Virginia; Big Sandy, Upper Green, and Cumberland rivers, Kentucky; Clinch River, Tennessee.
Etheostoma macrocephalum Cope, Trans. Amer. Philos. Soc. 1866, 400, Youghiogheny River, Pennsylvania.
- 1448. *Hadropterus maculatus* (Girard).**
Fort Gratiot, Lake Huron.
Alvordius maculatus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 67, Fort Gratiot, Michigan.
- 1449. *Hadropterus aspro* (Cope & Jordan).** *Black-sided Darter.*
Great Lakes region to the middle Missouri and north to Minnesota, southward through Missouri, Indiana, and Kentucky to Arkansas; especially common in the Ohio Valley.
Alvordius aspro Cope & Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 51, White River, Indianapolis, Indiana; substitute for *Etheostoma blennioides* of Kirtland and Agassiz.
- 1450. *Hadropterus guntheri* (Eigenmann & Eigenmann).**
Souris River, Winnipeg, south to Iowa.
Etheostoma guntheri Eigenmann & Eigenmann, Am. Nat., November, 1892, 962, Souris River, Winnipeg, and Cedar River near Cedar Rapids, Iowa.
- 1451. *Hadropterus peltatus* (Stauffer).**
Southeastern Pennsylvania, southward to South Carolina in coastwise streams.
Etheostoma peltatum Stauffer, in Cope, Proc. Ac. Nat. Sci. Phila. 1864, 233, Conestoga Creek, near Lancaster, Pennsylvania.
- 1452. *Hadropterus ouachitæ* (Jordan & Gilbert).**
Southern Indiana, western Kentucky, southwest to Arkansas, not rare; known from Patoka River, Indiana; lower Green and Obion rivers, Kentucky; Saline River, Arkansas.
Etheostoma (Hadropterus) ouachitæ Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 49, Saline River, Benton, Arkansas, a tributary of the Washita.
- 1453. *Hadropterus roanoka* (Jordan & Jenkins).**
Roanoke River, Virginia.
Etheostoma roanoka Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 358, Roanoke River, near Roanoke, Virginia.

Subgenus EBICOSMA Jordan & Copeland.

Ericosma Jordan & Copeland, Bull. U. S. Nat. Mus., x, 8, 1877 (*evides*)

1454. *Hadropterus evides* (Jordan & Copeland).

Indiana, in the Wabash Basin, west to Cedar River, Iowa, and southward in Arkansas, Kentucky, and Tennessee; French Broad River and the Ozark region.

Alwordius evides Jordan & Copeland, Proc. Ac. Nat. Sci. Phila. 1877, 51, White River near Indianapolis, Indiana.

Subgenus SERRARIA Gilbert.

Serraria Gilbert, Proc. U. S. Nat. Mus. 1884, 205 (*scierus*).

1455. *Hadropterus scierus* Swain.

Northern Indiana to Tennessee and Texas.

Hadropterus scierus Swain, Proc. U. S. Nat. Mus. 1883, 252, Bean Blossom Creek, Monroe County, Indiana.

1455a. *Hadropterus scierus serrula* Jordan & Gilbert.

From southern Arkansas southward through eastern Texas.

Hadropterus scierus serrula Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 16, Red River, Fulton, Arkansas.

Subgenus HADROPTERUS Agassiz.

Hadropterus Agassiz, Am. Jour. Sci. Arts, xvii, 1854, 305 (*nigrofasciatus*).

1456. *Hadropterus nigrofasciatus* Agassiz. *Crawl-a-bottom*.

South Carolina to Louisiana.

Hadropterus nigrofasciatus Agassiz, Am. Jour. Sci. Arts, xvii, 1854, 305, Mobile, Alabama.

Genus 470. HYPOHOMUS Cope.

Hypohomus Cope, Proc. Amer. Phil. Soc. Phila. 1870, 449 (*aurantiacus*).

Subgenus SWAINIA Jordan & Evermann.

Swainia Jordan & Evermann, Fishes North and Middle America, 1040, 1896 (*squamatus*).

1457. *Hypohomus squamatus* (Gilbert & Swain).

Upper Tennessee River basin; known from Watauga and French Broad rivers.

Etheostoma (Hadropterus) squamatus Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 50, French Broad River at mouth of Wolf Creek, Tennessee.

Subgenus HYPOHOMUS Cope.

1458. *Hypohomus aurantiacus* (Cope).

Upper Tennessee Basin; North Fork of Holston, Clinch, Watauga, and French Broad rivers.

Cottogaster aurantiacus Cope, Jour. Ac. Nat. Sci. Phila. 1869, 211, North Fork of Holston River, Saltville, Virginia.

1459. *Hypohomus cymatotænia* (Gilbert & Meek).

Western Kentucky and southern Missouri.

Etheostoma (Hadropterus) cymatotænia Gilbert & Meek, Proc. U. S. Nat. Mus. 1887, 51, Niangua River and Osage Fork of the Gasconade near Marshfield, Missouri; Sac River near Greenfield, Missouri.

1460. *Hypohomus nianguæ* (Gilbert & Meek).

Niangua River, Missouri.

Etheostoma (Hadropterus) nianguæ Gilbert & Meek, Proc. U. S. Nat. Mus. 1887, 52, Niangua River near Marshfield, Missouri.

1461. *Hypohomus spilotus* (Gilbert).

Kentucky River.

Etheostoma nianguæ spilotum Gilbert, Proc. U. S. Nat. Mus. 1887, 53, Sturgeon Creek, a tributary of Kentucky River, near Travellers Rest, Owsley County, Kentucky.

Genus 471. COTTOGASTER Putnam.

Cottogaster Putnam, Bull. Mus. Comp. Zool., 1, 5, 1863 (*texellatum* Thompson, not of DeKay = *copelandi*).

Subgenus COTTOGASTER Putnam.

1462. *Cottogaster uranidea* Jordan & Gilbert.

Lower Wabash Basin to southern Missouri, south through Arkansas and Alabama to Escambia River, Florida.

Etheostoma (Cottogaster) uranidea Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 48, Washita River, Arkadelphia, Arkansas.

1463. *Cottogaster copelandi* (Jordan).

Great Lakes region, from Lake Champlain to Lake Huron and south to the Black Warrior, westward to Missouri and through the Ozark region, where it is abundant, as also about Indianapolis in clear brooks.

Rheocrypta copelandi Jordan, Bull. U. S. Nat. Mus., x, 9, 1877, White River near Indianapolis, Indiana.

Subgenus IMOSTOMA Jordan.

Imostoma Jordan, Proc. Ac. Nat. Sci. Phila. 1877, 49 (*shumardi*).

1464. *Cottogaster shumardi* (Girard).

Michigan, Ohio, Indiana, and Illinois southward to Kentucky and Arkansas.

Hadropterus shumardi Girard, Proc. Ac. Nat. Sci. Phila. 1859, 100, Arkansas River near Fort Smith, Arkansas.

Genus 472. ULOCENTRA Jordan.

Ulocentra Jordan, Man. Vert. E. U. S., ed. 2, 223, 1878 (*atripinnis*).

1465. *Ulocentra stigmæa* (Jordan). *Speck*.

Tennessee and Arkansas to Georgia and Louisiana.

Boleosoma stigmæum Jordan, Ann. Lyc. Nat. Hist. N. Y. 1876, 311, small tributaries of Etowah and Oostanaula rivers near Rome, Georgia.

1466. *Ulocentra gilberti* Evermann & Thoburn.

Clinch River at Walker Ford, near Tazewell, Tennessee.

Ulocentra gilberti Evermann & Thoburn, in Jordan & Evermann, Fishes of North and Middle America, 1049, 1896, Clinch River at Walker Ford, near Tazewell, Claiborne County, Tennessee.

1467. *Ulocentra verecunda* (Jordan & Evermann).

Tributaries of Holston River, Virginia.

Etheostoma verecundum Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 360, Middle Fork of Holston River, about 5 miles south of Glade Spring, Virginia.

1468. *Ulocentra histrio* Jordan & Gilbert.

Southern Indiana, southwestward to Arkansas; known from the lower Wabash and tributaries, Green River, Kentucky, and Black, Poteau, and Washita rivers, Arkansas.

Etheostoma (Ulocentra) histrio Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 47, Poteau River near Hackett City, Arkansas; Saline River at Benton, and Washita River at Arkadelphia, Arkansas.

1469. *Ulocentra simotera* (Cope).

Western Virginia, eastern Kentucky and Tennessee, in the basins of the Green, Cumberland, and Tennessee rivers, southward through Alabama to the Escambia River.

Hystoma simoterum Cope, Jour. Ac. Nat. Sci. Phila. 1868, 215, Holston River and its tributaries, near Nashville, Tennessee.

1470. *Ulocentra phlox* (Cope).

Trinity River, Texas.

Bolcosoma phlox Cope, Bull. U. S. Nat. Mus., xvii, 30, 1880, Trinity River at Fort Worth, Texas.

Genus 473. DIPLESION Rafinesque.*Diplesion* Rafinesque, Ichth. Ohiensis, 37, 1820 (*blennioides*).

- 1471. *Diplesion blennioides* Rafinesque.** *Green-sided Darter.*
 Pennsylvania to South Dakota and Kansas, south to lower Alabama Basin.
Etheostoma (Diplesion) blennioides Rafinesque, Jour. de Physique 1819, 419,
 Ohio River.

Genus 474. BOLEOSOMA DeKay. Tessellated Darters.*Boleosoma* DeKay, New York Fauna: Fishes, 20, 1842 (*tessellatum* = *olmstedii*).

- 1472. *Boleosoma longimanus* (Jordan).**
 James River, Virginia; recorded from North River at Loch Laird, Virginia;
 Buffalo Creek near Lexington, Virginia; Elk Creek near Natural Bridge,
 Virginia.
Etheostoma longimana Jordan, Proc. Ac. Nat. Sci. Phila. 1888, 179, tributary of
 James River, Virginia.
- 1473. *Boleosoma podostemone* (Jordan & Jenkins).**
 Roanoke River basin, Virginia.
Etheostoma podostemone Jordan & Jenkins, Proc. U. S. Nat. Mus. 1888, 359,
 Roanoke River at Roanoke, Salem, and Alleghany Spring, Virginia.
- 1474. *Boleosoma nigrum* (Rafinesque).** *Johnny Darter.*
 Eastern United States, Ohio Valley, Great Lakes region, and Upper Mis-
 sissippi, west to Colorado and north to Manitoba.
Etheostoma nigrum Rafinesque, Ichth. Ohiensis, 37, 1820, Green River, Ken-
 tucky.
- 1474a. *Boleosoma nigrum olmstedii* (Storer).** *Tessellated Darter; Grand Oranhee.*
 Lake Ontario to Massachusetts and south to North Carolina east of the
 Alleghanies.
Etheostoma olmstedii Storer, Jour. Bost. Soc. Nat. Hist., iv, 1841, 61, pl. 5, fig. 2,
 Hartford, Connecticut.
- 1474b. *Boleosoma nigrum effulgens* (Girard).**
 Maryland to North Carolina.
Arlina effulgens Girard, Proc. Ac. Nat. Sci. Phila. 1859, 64, brooks and streams
 flowing into Potomac River.
- 1474c. *Boleosoma nigrum vexillare* (Jordan).**
 Tributaries of the James, Roanoke, and Rappahannock rivers.
Boleosoma vexillare Jordan, Proc. U. S. Nat. Mus. 1880, 237, Rappahannock
 River at Warrenton, Virginia.
- 1474d. *Boleosoma nigrum maculaticeps* Cope.**
 Upper waters of Catawba River, North Carolina.
Boleosoma maculaticeps Cope, Proc. Amer. Philos. Soc. 1870, 269, upper waters
 of Catawba River, North Carolina.
- 1474e. *Boleosoma nigrum mesæum* (Cope).**
 Platte River near Fort Kearney, Nebraska.
Pacilichthys mesæus Cope, Proc. Ac. Nat. Sci. Phila. 1864, 232, Platte River
 near Fort Kearney, Nebraska.
- 1475. *Boleosoma susanæ* Jordan & Swain.**
 Basin of upper Cumberland River, Kentucky.
Boleosoma susanæ Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 249, Wolf Creek
 and other tributaries of the Clear Fork of Cumberland River, near
 Pleasant View, Whitley County, Kentucky.
- Subgenus VAILLANTIA Jordan.
Vaillantia Jordan, Bull. U. S. Nat. Mus., xii, 89, 1878 (*camurum*).
- 1476. *Boleosoma camurum* Forbes.**
 Indiana to Iowa and Mississippi, southwest to Houston, Texas.
Boleosoma camura Forbes, Bull. Ill. Lab. Nat. Hist., i, 40, 1878 (name preoccu-
 pied in *Etheostoma*, not in *Boleosoma*); Cache River and Clear Creek,
 Union County; Johnson County, and Pekin, Illinois.

Genus 475. **CRYSTALLARIA** Jordan & Gilbert.

Crystallaria Jordan & Gilbert, in Jordan, Cat. Fishes N. A., 78, 1885 (*asprellus*).

1477. **Crystallaria asprella** (Jordan).

Southern Indiana and Illinois to Arkansas and Alabama, chiefly in the larger, clearer streams. Recorded from Ohio River at Rising Sun, Indiana; Wabash River at New Harmony, Vincennes, and Terre Haute; Green River, Kentucky; Choctolo Creek, Alabama, and Washita River, Arkansas; besides the original locality in Illinois.

Pleurolepis asprellus Jordan, Bull. Ill. Lab. Nat. Hist., II, 38, 1878, rocky tributary of Mississippi River in Hancock County, Illinois.

Genus 476. **AMMOCRYPTA** Jordan. *Sand Darters.*

Ammocrypta Jordan, Bull. U. S. Nat. Mus., x, 6, 1877 (*beanii*).

1478. **Ammocrypta pellucida** (Baird). *Sand Darter.*

Lake Erie to Minnesota, Kentucky, and Texas.

Pleurolepis pellucidus Baird, in Agassiz, Bull. Mus. Comp. Zool., I, 5, 1863, no locality; the specimens from Black River, Ohio, the types of *Etheostoma pellucidum* Baird MS, 1853.

1478a. **Ammocrypta pellucida clara** Jordan & Meek.

Mississippi Valley, Wabash River west to central Iowa and Minnesota, and south to Arkansas and northern Texas.

Ammocrypta clara Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 8, Des Moines River, Ottumwa, Iowa.

1478b. **Ammocrypta pellucida vivax** (Hay).

Mississippi and north west through Arkansas and south to Texas.

Ammocrypta vivax Hay, Bull. U. S. Fish Com., II, 1882 (1883), 58, Pearl River, Jackson, Mississippi.

1479. **Ammocrypta beanii** Jordan.

Gulf States, Alabama to Louisiana.

Ammocrypta beanii Jordan, Bull. U. S. Nat. Mus., x, 5, 1877, Notalbany River, Tickfaw, Louisiana.

Genus 477. **IOA** Jordan & Brayton.

Ioa Jordan & Brayton, Bull. U. S. Nat. Mus., XII, 88, 1878 (*vitrea*).

1480. **Ioa vitrea** (Cope).

Southeastern Virginia and eastern North Carolina.

Pacilichthys vitreus Cope, Proc. Amer. Philos. Soc. Phila. 1870, 263, Walnut Creek, a tributary of Neuse River, Wake County, North Carolina.

1481. **Ioa vigil** Hay.

Pearl River, Jackson, Mississippi.

Ioa vigil Hay, Bull. U. S. Fish Com. II, 1882 (1883), 59, Pearl River, Jackson, Mississippi.

Genus 478. **ETHEOSTOMA** Rafinesque.

Etheostoma Rafinesque, Jour. de Physique 1819, 419 (*caprodes*, *blennioides*, *flabellaris*; first restricted by Agassiz, 1854, to *aspro*, wrongly identified as "*blennioides*"; restricted by Cope & Jordan 1877 to *flabellaris*).

Subgenus **PÆCILICHTHYS** Agassiz.

Pacilichthys Agassiz, Am. Jour. Sci. Arts 1854, 305 (*variatus*).

1482. **Etheostoma variatum** Kirtland.

Ohio River basin, from western Pennsylvania to Kentucky.

Etheostoma variatum Kirtland, Zoology of Ohio, 168, 192, 1838, Mahoning River, Ohio.

Subgenus NANOSTOMA Putnam.

Nanostoma Putnam, in Jordan, Bull. U. S. Nat. Mus., x, 6, 1877 (*zonalis*); not *Nannostomus* Günther.

- 1483. *Etheostoma swannanoa* Jordan & Evermann.**
Upper waters of the Tennessee River in Middle and South Forks of the Holston and the South Fork of the Swannanoa.
Etheostoma swannanoa Jordan & Evermann, Proc. U. S. Nat. Mus. 1888, 360, South Fork of Holston River, Holstein Mills, Virginia; Middle Fork of Holston River, Marion, Virginia, and South Fork of Swannanoa River, Black Mountain, North Carolina.
- 1484. *Etheostoma thalassinum* (Jordan & Brayton).**
Santee River basin in North and South Carolina.
Nothonotus thalassinus Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 13, 1878, Reedy River, Greenville, South Carolina; Catawba River and tributaries in North Carolina; Ennoree River, Chick Springs, South Carolina, and Saluda River, Farr's Mill, South Carolina.
- 1485. *Etheostoma inscriptum* (Jordan & Brayton).**
Oconee River, Georgia.
Nothonotus inscriptus Jordan & Brayton, Bull. U. S. Nat. Mus., xii, 34, 1878, Oconee River, Sulphur Springs, Hall County, Georgia.
- 1486. *Etheostoma biennius* Gilbert & Swain.**
Northern Alabama, in streams tributary to the Tennessee River.
Etheostoma (Rhothoea) biennius Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 55, Cox Creek and Shoal Creek, tributary to Tennessee River, Florence, Alabama.
- 1487. *Etheostoma rupestre* Gilbert & Swain.**
North River, a tributary of Black Warrior River, Alabama.
Etheostoma rupestre Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 57, North River, near Tuscaloosa, Alabama.
- 1488. *Etheostoma elegans* (Hay).**
Chickasawha River, Mississippi.
Nanostoma elegans Hay, Proc. U. S. Nat. Mus. 1880, 493, shallow rocky branch of Chickasawha River, Enterprise, Mississippi.
- 1489. *Etheostoma zonale* (Cope).**
Mississippi Valley from Ohio and northern Indiana (Kankakee River) west through Iowa and south through Kentucky and Tennessee into Alabama, Louisiana, and Arkansas.
Pæciliichthys zonalis Cope, Jour. Ac. Nat. Sci. Phila. 1868, 212, Holston River, Virginia.
- 1489a. *Etheostoma zonale arcansanum* Jordan & Gilbert.**
Ozark region of Missouri and Arkansas.
Etheostoma zonale arcansanum Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 5, Spring River, Carthage, Missouri; James River, Marshfield, Missouri; Poteau River, Hackott City, Arkansas; Washita River, Arkadelphia, Arkansas, and Saline River, Benton, Arkansas.
- Subgenus NOTHONOTUS Agassiz.
Nothonotus Agassiz, Bull. Mus. Comp. Zool., 1, 3, 1863 (*maculatus*).
- 1490. *Etheostoma camurum* (Cope). *Blue-breasted Darter*.**
Indiana and Ohio to Tennessee.
Pæciliichthys camurus Cope, Proc. Amer. Philos. Soc. Phila. 1870, 265, headwaters of Cumberland River in Tennessee.
- 1491. *Etheostoma vulneratum* (Cope).**
French Broad River.
Pæciliichthys vulneratus Cope, Proc. Amer. Philos. Soc. Phila. 1870, 266, tributary of French Broad River, Warm Springs, North Carolina.

1492. *Etheostoma maculatum* Kirtland.

Ohio and Indiana southward through Kentucky and Tennessee to northern Alabama, in tributaries of the Wabash, Ohio, Cumberland, and Tennessee rivers.

Etheostoma maculata Kirtland, Jour. Bost. Soc. Nat. Hist. 1840, 276, Mahoning River, Ohio.

1493. *Etheostoma cinereum* Storer.

Tennessee and Cumberland rivers; Tennessee River at Florence, Alabama; Obeys River at Olympus, Tennessee; Rock Creek near Whitley Station, Kentucky.

Etheostoma cinerea Storer, Proc. Bost. Soc. Nat. Hist. 1845, 49, Florence, Ala.

1494. *Etheostoma tessellatum* Storer.

Florence, Alabama.

Etheostoma tessellata Storer, Proc. Bost. Soc. Nat. Hist. 1845, 48, Tennessee River at Florence, Alabama.

1495. *Etheostoma rufilineatum* (Cope).

Upper tributaries of the Tennessee, Cumberland, and Green rivers.

Pacilichthys rufilineatus Cope, Proc. Amer. Philos. Soc. 1870, 267, Warm Springs Creek, French Broad River, Madison County, North Carolina.

1496. *Etheostoma jordani* Gilbert.

Tributaries of Coosa River in the Alabama River basin.

Etheostoma (Nothonotus) jordani Gilbert, Bull. U. S. Fish Com., ix, 1889 (1891), 156, pl. 43, fig. 3, Choccolo Creek, Oxford, Alabama, and Chestnut Creek, Verbena, Alabama.

Subgenus **TORRENTARIA** Jordan & Evermann.

Torrentaria Jordan & Evermann, Fishes N. and M. Am., 1080, 1896 (*australe*).

1497. *Etheostoma sagitta* (Jordan & Swain).

Cumberland River.

Pacilichthys sagitta Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 250, Wolf Creek, near Pleasant View, Whitley County, Kentucky.

1498. *Etheostoma australe* Jordan.

Chihuahua River, Mexico, in Rio Grande Basin.

Etheostoma australe Jordan, Proc. U. S. Nat. Mus. 1884, 362, Chihuahua River, Mexico; based on the types of *Diplesion fasciatus* Girard.

Subgenus **NIVICOLA** Jordan & Evermann.

Nivicola Jordan & Evermann, Fishes N. and M. Am., 1082, 1896 (*boreale*).

1499. *Etheostoma boreale* (Jordan).

St. Lawrence River at Montreal, Canada.

Pacilichthys borealis Jordan, Proc. U. S. N. M. 1884, 477, Montreal, Canada.

Subgenus **RAFINESQUIELLUS** Jordan & Evermann.

Rafinesquiellus Jordan & Evermann, Fishes N. and M. Am., 1082, 1896 (*pottsi*).

1500. *Etheostoma pottsi* (Girard).

Streams of Chihuahua, Mexico, in Rio Grande Basin.

Aplesion pottsi (misprinted *potsii*) Girard, Proc. Ac. Nat. Sci. Phila. 1859, 102, tributaries of Chihuahua River, Mexico.

Subgenus **OLIGOCEPHALUS** Girard.

Oligocephalus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 67 (*lepidus*).

1501. *Etheostoma iowæ* Jordan & Meek.

Upper Mississippi Valley from Iowa and Nebraska north to Assiniboia; common northwestward.

Etheostoma iowæ Jordan & Meek, Proc. U. S. Nat. Mus. 1885, 10, Chariton River, Chariton, Iowa.

1502. *Etheostoma jessiae* (Jordan & Brayton).

Indiana to Iowa and south to Mississippi and Texas.

Pacilichthys jessiae Jordan & Brayton, in Jordan, Man. Vert., ed. 2, 227, 1877, Chickamauga River, Ringgold, Georgia.

1503. *Etheostoma luteovinctum* Gilbert & Swain.
Stone River, Tennessee.
Etheostoma luteovinctum Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 58,
Stone River near Nashville, Tennessee.
1504. *Etheostoma lepidogenys* Evermann & Kendall.
Rio Comal, Texas.
Etheostoma lepidogenys Evermann & Kendall, Bull. U. S. Fish Com., xii,
1892 (Feb. 6, 1894), 114, pl. 35, fig. 3, Rio Comal, New Braunfels, Texas.
1505. *Etheostoma cœruleum* Storer. *Blue Darter*; *Rainbow Darter*; *Soldier-fish*.
Mississippi Valley; Ohio Valley.
Etheostoma cœruleum Storer, Proc. Bost. Soc. Nat. Hist. 1845, 47.
- 1505a. *Etheostoma cœruleum spectabile* (Agassiz).
Mississippi Valley, Indiana to Missouri.
Pacilichthys spectabilis Agassiz, Am. Jour. Sci. Arts 1854, 304, Osage River,
Missouri.
1506. *Etheostoma lepidum* (Baird & Girard).
Streams of Arkansas, Texas, and Chihuahua.
Bolosoma lepida Baird & Girard, Proc. Ac. Nat. Sci. Phila. 1853, 388, upper
tributaries of the Rio Nueces, Texas.
1507. *Etheostoma tippecanoe* Jordan & Evermann.
Tippecanoe River, Indiana.
Etheostoma tippecanoe Jordan & Evermann, Proc. U. S. Nat. Mus. 1890, 3,
(figure that of *Etheostoma camurum* by mistake), Tippecanoe River,
Marshland, Indiana.
1508. *Etheostoma punctulatum* (Agassiz).
Ozark region of southwestern Missouri.
Pacilichthys punctulatus Agassiz, Am. Jour. Sci. Arts 1854, 304, Osage River,
Missouri.
1509. *Etheostoma cragini* Gilbert.
Western portion of the Arkansas River basin, from Garden City, Kansas, to
Canyon City, Colorado.
Etheostoma cragini Gilbert, Bull. Washburn College Laboratory for March
and April, 1885, 99, small stream connecting the "Lake" at Garden
City, Kansas, with Arkansas River.
1510. *Etheostoma obeyense* Kirsch.
Tributaries of Cumberland River in Clinton County, Kentucky.
Etheostoma obeyense Kirsch, Bull. U. S. Fish Com., x, 1890 (1892), 292, Indian
Creek, Spring Creek, Smith Creek, and Albany Branch, all tributaries
of Cumberland River in Clinton County, Kentucky.
1511. *Etheostoma pagei* Meek.
Spring branch, tributary to Neosho River, Neosho, Mo., in Arkansas Basin.
Etheostoma pagei Meek, Am. Nat. 1894, 957, spring branch on U. S. Fish
Commission grounds, Neosho, Missouri.
1512. *Etheostoma virgatum* (Jordan).
Tributaries of Cumberland River in western Kentucky.
Pacilichthys virgatus Jordan, Proc. U. S. Nat. Mus. 1879, 236, Rock Castle
River, Livingston, Kentucky.
Subgenus CLARICOLA Jordan & Evermann.
Clariocola Jordan & Evermann, Fishes N. and M. Amer., 1093, 1896 (*julia*).
1513. *Etheostoma julia* Meek.
Basin of White River, Missouri.
Etheostoma julia Meek, Bull. U. S. Fish Com., ix, 1889 (1891), 130, pl. 42,
fig. 2, James River, near Springfield, Missouri.
1514. *Etheostoma artesiae* (Hay).
Georgia to central Texas.
Pacilichthys artesiae Hay, Proc. U. S. Nat. Mus. 1880, 494, from a small
branch of Catawba River, Artesia, Lowndes County, Mississippi.

- 1515. *Etheostoma alabamæ*** (Gilbert & Swain).
Black Warrior and Big Catawba rivers, Alabama.
Etheostoma whipplei alabamæ Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 62, Black Warrior River near Morris and Tuscaloosa, Alabama.
- 1516. *Etheostoma whippilii*** (Girard).
Lower Arkansas Basin, locally abundant in clear tributaries of the Saline, Washita, etc.
Boleichthys whippilii Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103, Coal Creek, Arkansas.
- 1517. *Etheostoma squamiceps*** Jordan.
Lower Wabash Valley, Indiana, through western Kentucky and Tennessee to Georgia and western Florida.
Etheostoma squamiceps Jordan, Bull. U. S. Nat. Mus., x, 11, 1877, Russellville, Kentucky.
- Subgenus **ETHEOSTOMA Rafinesque.**
- 1518. *Etheostoma flabellare*** Rafinesque. *Fan-tailed Darter.*
New York to Virginia, west to Iowa, and south to South Carolina and northern Alabama.
Etheostoma flabellaris Rafinesque, Jour. de Physique 1819, 419, tributaries of Ohio River.
- 1518a. *Etheostoma flabellare cumberlandicum*** (Jordan & Swain).
Brooks in Cumberland Mountains tributary to Cumberland River.
Etheostoma cumberlandicum Jordan & Swain, Proc. U. S. Nat. Mus. 1883, 251, small streams of the Cumberland Mountains; Wolf Creek and Briar Creek near Pleasant View, Whitley County, Kentucky.
- 1518b. *Etheostoma flabellare lineolatum*** (Agassiz).
Minnesota to northern Indiana and northern Missouri.
Catonotus lineolatus Agassiz, Am. Jour. Sci. Arts 1854, 305, small creek, near Quincy, Illinois.
- Genus **479. ALVARIUS** Girard.
Alvarius Girard, Proc. Ac. Nat. Sci. Phila. 1859, 101 (*lateralis*).
- 1519. *Alvarius lateralis*** Girard.
Rio Grande.
Alvarius lateralis Girard, Proc. Ac. Nat. Sci. Phila. 1859, 101, mouth of Rio Grande.
- Genus **480. PSYCHROMASTER** Jordan & Evermann.
Psychromaster Jordan & Evermann, Fishes North and Middle America, 1099, 1896 (*tuscumbia*).
- 1520. *Psychromaster tuscumbia*** (Gilbert & Swain).
Tennessee River basin in northern Alabama.
Etheostoma tuscumbia Gilbert & Swain, Proc. U. S. Nat. Mus. 1887, 63, streams flowing from the large spring at Tuscumbia, Alabama.
- Genus **481. COPELANDELLUS** Jordan & Evermann.
Copelandellus Jordan & Evermann, Fishes North and Middle America, 1100, 1896 (*quiescens*).
- 1521. *Copelandellus quiescens*** (Jordan).
Swamps and streams of the lowlands from Virginia to Florida; known from Blackwater River, Zuni, Virginia; Allapaha River, Nashville, Georgia; and various streams in Florida.
Pæcilichthys quiescens Jordan, Proc. U. S. Nat. Mus. 1884, 478, tributary of Allapaha River, Nashville, Georgia.
- Genus **482. BOLEICHTHYS** Girard.
Boleichthys Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103 (*exilis*).
- 1522. *Boleichthys fusiformis*** (Girard).
Massachusetts to the Rio Grande and west to Minnesota.
Boleosoma fusiformis Girard, Proc. Bost. Soc. Nat. Hist. 1854, 41, Charles River, Massachusetts.

1523. *Boleichthys exilis* Girard.

Upper Missouri River basin and Red River of the North.

Boleichthys exilis Girard, Proc. Ac. Nat. Sci. Phila. 1859, 103, Little Muddy River, a tributary of the Upper Missouri.Genus 483. **MICROPERCA** Putnam.*Microperca* Putnam, Bull. Mus. Comp. Zool., 1, 4, 1863 (*punctulata*).**1524. *Microperca procliaris* (Hay).**

Alabama and Mississippi, in lowland streams and ponds.

Alcarius procliaris Hay, Proc. U. S. Nat. Mus. 1880, 496, small branch of the Tuscumbia River at Corinth, Mississippi.**1525. *Microperca punctulata* Putnam. *Least Darter*.**

Northwestern States; Indiana, Michigan, and Minnesota, south to Arkansas; rare outside of tributaries of the Great Lakes.

Microperca punctulata Putnam, Bull. Mus. Comp. Zool., 1, 4, 1863, various points in Michigan, Wisconsin, Illinois, and Alabama; those from Alabama were probably *M. procliaris* (Hay).**1526. *Microperca fonticola* (Jordan & Gilbert).**

Arkansas and Texas, in clear rocky streams; known only from Washita River at Arkadelphia; San Marcos River at San Marcos, Texas; Comal Creek at New Braunfels, Texas.

Alcarius fonticola Jordan & Gilbert, Proc. U. S. Nat. Mus. 1886, 23, San Marcos River at San Marcos, Texas.**Family CXLVI. CHEILODIPTERIDÆ. The King of the Mullet.**Genus 484. **APOGON** Lacépède. *King of Mullet*.*Apogon* Lacépède, Hist. Nat. Poiss., III, 411, 1802 (*ruber* = *imberbis*).**1527. *Apogon imberbis* (Linnaeus). *King of the Mullet*; *Alfoncino*; *Fucinita*.**

Mediterranean and neighboring waters; one from Newport, Rhode Island, and one from the island of Fernando Noronha.

Mullus imberbis Linnaeus, Syst. Nat., ed. x, 300, 1758, Malta; after Artedi.**1528. *Apogon dovii* Günther.**

Mazatlan to Panama.

Apogon dovii Günther, Proc. Zool. Soc. Lond. 1861, 371, Panama.**1529. *Apogon retrosella* (Gill). *Cardenal*.**

Pacific Coast of Mexico.

Amia retrosella Gill, Proc. Ac. Nat. Sci. Phila. 1862, 251, Cape San Lucas.**1530. *Apogon maculatus* (Poey).**

Pensacola to Bahia; common on the "Snapper Banks"; often found in the stomachs of snappers and groupers.

Monoprion maculatus Poey, Memorias, II, 123, 1860, Cuba**1531. *Apogon binotatus* (Poey).**

Cuba.

Amia binotata Poey, Repertorio, 234, 1867, Cuba.**1532. *Apogon pigmentarius* (Poey).**

Cuba; common at Havana.

Monoprion pigmentarius Poey, Memorias, II, 123, 1860, Cuba.Genus 485. **APOGONICHTHYS** Bleeker.*Apogonichthys* Bleeker, Floris, 321, 1854 (*perdir*).**1533. *Apogonichthys alutus* (Jordan & Gilbert).**

Snapper Banks off Pensacola and Tampa, Florida.

Apogon alutus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 279, and in Synopsis, 931, 1883, Snapper Banks off Pensacola, Fla.

1534. *Apogonichthys stellatus* Cope.

Bahamas.

Apogonichthys stellatus Cope, Trans. Amer. Philos. Soc. 1866, 400, Nassau, Bahama Islands.1535. *Apogonichthys puncticulatus* Poey.

Cuba.

Apogonichthys puncticulatus Poey, Repertorio, II, 233, 1867, Cuba.

Genus 486. GLOSSAMIA Gill.

Glossamia Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82 (*apron*).1536. *Glossamia pandionis* (Goode & Bean).

Deep water off Chesapeake Bay.

Apogon pandionis Goode & Bean, Proc. U. S. Nat. Mus. 1881, 160, deep water off Chesapeake Bay.

Genus 487. EPIGONUS Rafinesque.

Epigonus Rafinesque, Indice Ittiol. Sicil., 64, 1810 (*macrophthalmus* = *telescopum*).1537. *Epigonus occidentalis* Goode & Bean.

Off Barbados.

Epigonus occidentalis Goode & Bean, Oceanic Ichthyology, 233, 1896, off Barbados.

Genus 488. CHEILODIPTERUS Lacépède.

Cheilodipterus Lacépède, Hist. Nat. Poiss., III, 539, 1802 (*saltatrix*, *macrodon*, etc.; restricted by Cuvier & Valenciennes in 1828 to *macrodon*).1538. *Cheilodipterus affinis* Poey.

Cuba.

Cheilodipterus affinis Poey, Ann. Ac. Nat. Sci. N. Y., XI, 1876, 58, Havana.

Genus 489. AMIICHTHYS Poey.

Amiichthys Poey, in Jordan, Proc. U. S. Nat. Mus. 1886, 586 (*diapterus*).1539. *Amiichthys diapterus* (Poey).

Cuba.

Genus? — *diapterus* Poey, Synopsis, 305, 1861, Cuba.

Genus 490. SPHYRÆNOPS Gill.

Sphyrænops Gill, in Poey, Memorias, II, 349, 1861 (*bairdianus*).1540. *Sphyrænops bairdianus* Poey.

Cuba.

Sphyrænops bairdianus Poey, Memorias, II, 350, 1861, Cuba.

Genus 491. SCOMBROPS Temminck & Schlegel.

Scombrops Temminck & Schlegel, Fauna Japonica, 118, 1842 (*cheilodipteroide*).

Subgenus LATEBRUS Poey.

Latebrus Poey, Memorias, II, 168, 1860 (*oculatus*).1541. *Scombrops oculatus* (Poey). *Escolar Chino*.

Coast of Cuba.

Latebrus oculatus Poey, Memorias, II, 168, with plate, 1860, Cuba.

Genus 492. HYPOCLYDONIA Goode & Bean.

Hypoclydonia Goode & Bean, Oceanic Ichthyology, 236, fig. 237, 1896 (*bella*).1542. *Hypoclydonia bella* Goode & Bean.

Gulf Stream.

Hypoclydonia bella Goode & Bean, Oceanic Ichthyology, 236, 1896, Gulf Stream at Albatross Stations 2314 in 159 fathoms, 2397 in 280 fathoms; 2401 in 142 fathoms, 2417 in 95 fathoms, 2418 in 90 fathoms, 2425 in 119 fathoms, and 2426 in 93 fathoms.

Family CXLVII. CENTROPOMIDÆ. The Robalos.

Genus 493. **CENTROPOMUS** Lacépède. *Robalos*.

Centropomus Lacépède, Hist. Nat. Poiss., iv, 248, 1802 (*lucioperca*, *undecimalis*, etc.; restricted to *undecimalis* by Cuvier & Valenciennes).

1543. **Centropomus viridis** Lockington. *Robalo*.
Pacific Coast of Mexico; common from Gulf of California to Panama.
Centropomus viridis Lockington, Proc. Cal. Ac. Sci., vii, 1876 (1877), 110, off Ascension Island, Lower California.
1544. **Centropomus undecimalis** (Bloch). *Robalo*; *Sergeant-fish*; *Snook*; *Brochet de Mer*.
Coasts of Florida and Texas southward among the West Indies to Surinam or beyond.
Sciæna undecimalis Bloch, Ichthyol., vi, 60, pl. 303, 1792, Jamaica.
1545. **Centropomus nigrescens** Günther. *Robalo Prieto*.
Pacific Coast of tropical America; generally common from Mazatlan to Panama.
Centropomus nigrescens Günther, Fishes Central America, 407, 1869, Chiapas.
1546. **Centropomus pedimacula** Poey. *Constantino de las Aletas Prietas*; *Robalito de las Aletas Prietas*.
Both coasts of tropical America; common in Cuba, Jamaica, and south to Brazil and from Mazatlan to Panama.
Centropomus pedimacula Poey, Memorias, ii, 122, 1860, Havana and Cienfuegos, Cuba.
1547. **Centropomus grandoculatus** Jenkins & Evermann.
Pacific Coast of Mexico.
Centropomus grandoculatus Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 139, Guaymas, Sonora.
1548. **Centropomus cuvieri** Bocourt.
Haiti.
Centropomus cuvieri Bocourt, Ann. Sc. Nat. Paris 1868, 91, Haiti.
1549. **Centropomus mexicanus** Bocourt.
Both coasts of Mexico; recorded from Gulf of Mexico and from Oaxaca.
Centropomus mexicanus Bocourt, Ann. Sc. Nat. Paris 1868, 90, Gulf of Mexico.
1550. **Centropomus parallelus** Poey.
Coasts of Cuba; San Domingo, Jamaica, Barbados, and Rio Chagres; Guiana, Pernambuco, and Bahia.
Centropomus parallelus Poey, Memorias, ii, 120, 1860, Havana and Cienfuegos, Cuba.
1551. **Centropomus pectinatus** Poey.
Coasts of Cuba.
Centropomus pectinatus Poey, Memorias, ii, 122, 1860, Havana and Cienfuegos, Cuba.
1552. **Centropomus unionensis** Bocourt.
Pacific Coast of Central America; rather common at Panama.
Centropomus unionensis Bocourt, Ann. Sc. Nat. Paris 1868, 90, La Union, San Salvador.
1553. **Centropomus armatus** Gill.
Pacific Coast of Central America; common from Chiapas to Panama.
Centropomus armatus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 163, Panama.
1554. **Centropomus robalito** Jordan & Gilbert. *Constantino*; *Robalito de las Aletas Amarillus*.
Pacific Coast of Mexico from Mazatlan to Panama.
Centropomus robalito Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 462, Mazatlan; Acapulco.
1555. **Centropomus affinis** Steindachner.
Coast of Brazil, north to Belize.
Centropomus affinis Steindachner, Ichth. Notizen, i, 1, pl. 1, fig. 1, 1864, Rio Janeiro and Cahahiba, Brazil; Demerara.

1556. *Centropomus ensiferus* Poey.

West Indies; generally common from Cuba to Surinam.
Centropomus ensiferus Poey, *Memorias*, II, 122, 1860, Havana.

Family CXLVIII. SERRANIDÆ. The Sea Basses.

Genus 494. *ROCCUS* Mitchill. *Striped Basses*.

Roccus Mitchill, *Fishes of New York*, 25, 1814 (*striatus* = *lineatus*).

Subgenus LEPIBEMA Rafinesque.

Lepibema Rafinesque, *Ichth. Ohiensis*, 23, 1820 (*chrysops*).

1557. *Roccus chrysops* (Rafinesque). *White Bass*; *White Lake-Bass*.

Great Lakes region, Upper Mississippi and Ohio valleys, south to Washita River.

Perca chrysops Rafinesque, *Ichth. Ohiensis*, 22, 1820, Falls of the Ohio.

Subgenus ROCCUS Mitchill.

1558. *Roccus lineatus* (Bloch). *Striped Bass*; *Rockfish*; *Rock*.

Atlantic coasts of North America from New Brunswick to Escambia River, Florida; introduced by the U. S. Fish Commission into Sacramento River, California.

Sciæna lineata Bloch, *Ichth.*, IX, 53, pl. 305, 1792, "Mediterranean."

Genus 495. *MORONE* Mitchill. *White Perch*.

Morone Mitchill, *Fishes of New York*, 18, 1814 (*rufa* and *flavescens*); the genus properly a synonym of *Perca*.

1559. *Morone interrupta* Gill. *Yellow Bass*.

Lower Mississippi Valley north to Cincinnati, Terre Haute, and St. Louis.
Morone interrupta Gill, *Proc. Ac. Nat. Sci. Phila.* 1860, 118, St. Louis; New Orleans.

1560. *Morone americana* (Gmelin). *White Perch*.

Atlantic coasts of North America from Nova Scotia to South Carolina in brackish water, ascending streams, and frequently landlocked in ponds.
Perca americana Gmelin, *Syst. Nat.*, I, III, 1308, 1788, New York; after Schöpf.

Genus 496. *LIOPROPOMA* Gill.

Liopropoma Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*aberrans*).

1561. *Liopropoma aberrans* Poey.

Coast of Cuba.

Perca aberrans Poey, *Memorias*, II, 125, 1860, Cuba.

Genus 497. *CHORISTISTIUM* Gill.

Chorististium Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*rubrum*).

1562. *Chorististium rubrum* (Poey).

Coast of Cuba.

Liopropoma rubra Poey, *Memorias*, II, 418, 1861, Havana.

Genus 498. *STEREOLEPIS* Ayres. *Jewfishes*.

Stereolepis Ayres, *Proc. Cal. Ac. Sci.* 1859, 28 (*gigas*).

1563. *Stereolepis gigas* Ayres. *California Jewfish*.

Coast of California, north to the Farallones.

Stereolepis gigas Ayres, *Proc. Cal. Ac. Sci.* 1859, 28, southern California.

Genus 499. *POLYPRION* Cuvier. *Wreckfishes*.

Polyprion Cuvier, in Valenciennes, *Mém. Mus.*, XI, 265, 1824 (*cernium*).

1564. *Polyprion americanus* (Bloch & Schneider). *Wreckfish*; *Stone Bass*; *Cernier*.

Off coast of Europe; Gulf Stream.

Amphiprion americanus Bloch & Schneider, *Syst. Ichth.*, 205, pl. 47, 1801, based on a drawing sent by Latham to Schneider representing some fish called in America "gnom"; called *Amphiprion australis* on pl. 47.

Genus 500. **GONIOPLECTRUS** Gill. *Spanish Flags.*

Gonioplectrus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236, 237 (*hispanum*).

1565. **Gonioplectrus hispanus** (Cuvier & Valenciennes). "*Spanish Flag*"; *Ouatilibi Espagnol*; *Biajaiba de lo Alto*.

West Indies; Cuba.

Plectropoma hispanus Cuv. & Val., Hist. Nat. Poiss., II, 396, 1828, Martinique.

Genus 501. **PETROMETOPON** Gill. *Enjambres.*

Petrometopon Gill, Proc. Ac. Nat. Sci. Phila. 1865, 105 (*guttatus* Poey = *cruentatus*).

1566. **Petrometopon panamensis** (Steindachner).

Panama.

Serranus panamensis Steindachner, Ichth. Beitr., IV, 1, with plate, 1871, Panama.

1567. **Petrometopon cruentatus** (Lacépède). *Enjambre*; *Coney*; *Rock Hind*.

West Indian fauna, Brazil to Florida Keys; very common on Cuba coast.

Sparus cruentatus Lacépède, Hist. Nat. Poiss., IV, 157, pl. 4, fig. 1, 1803, Martinique; on a copy of Plumier's drawing.

- 1567a. **Petrometopon cruentatus coronatus** (Cuvier & Valenciennes).

West Indies, north to Key West.

Serranus coronatus Cuv. & Val., Hist. Nat. Poiss., II, 371, 1828, Martinique.

Genus 502. **BODIANUS** Bloch. *Jacob Evertzens.*

Bodianus Bloch, Ichthyologia, 1790 (*guttatus*, *bodianus*, etc., species with entire preopercle and spine on opercle).

1568. **Bodianus tæniops** (Cuvier & Valenciennes).

West coast of Africa, straying to Florida.

Serranus tæniops Cuv. & Val., Hist. Nat. Poiss., II, 370, 1828, Cape Verdes.

1569. **Bodianus fulvus** (Linnæus). *Guativere*; *Nigger-fish*; *Yellow-fish*; *Butter-fish*; *Lemon-yellow Butter-fish*; *Guativerc Amarilla*.

West Indies; Bermuda and Florida Keys to Bahia.

Labrus fulvus Linnæus, Syst. Nat., ed. x, 287, 1758, Bahamas; after Catesby.

- 1569a. **Bodianus fulvus ruber** (Bloch & Schneider). *Red Guativere*; *Ouatilibi*; *Rock Hind*.

West Indies, etc.; very common.

Gymnocephalus ruber Bloch & Schneider, Syst. Ichth., 346, pl. 67, 1801, on *Caraua* of Maregrave; not *Epinephelus ruber* Bloch.

- 1569b. **Bodianus fulvus punctatus** (Linnæus). *Nigger-fish*; *Negro-fish*; *Black Guativere*.

West Indies, etc.; everywhere common.

Perca punctata Linnæus, Syst. Nat., ed. x, 291, 1758, Bahamas; based on Catesby.

Subgenus **MENEPHORUS** Poey.

Menephorus Poey, Ann. Lyc. Nat. Hist. N. Y., x, 1869, 50 (*dubtus*).

1570. **Bodianus dubius** (Poey).

Cuba.

Serranus dubius Poey, Memorias, II, 142, 1860, Cuba.

1571. **Bodianus punctiferus** (Poey).

Cuba.

Menephorus punctiferus Poey, Enumeratio, 21, 1875, Havana.

Subgenus **ENNEISTUS** Jordan & Evermann.

Enneistus Jordan & Evermann, Fishes N. and M. Am., 1147, 1896 (*acanthistius*).

1572. **Bodianus acanthistius** Gilbert.

Cape Lobos, eastern shore of Gulf of California.

Bodianus acanthistius Gilbert, Proc. U. S. N. M. 1891, 552, Cape Lobos, eastern shore of Gulf of California at Albatross Station 3017, in 58 fathoms.

Genus 503. *EPINEPHELUS* Bloch. *Groupers*.

Epinephelus Bloch, Ichthyologia, 1793 (after *marginalis*, *brunneus*, *merri*, *ruber*, etc.; restricted to *marginalis* by authors).

Subgenus SCHISTORUS GILL.

Schistorus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*mystacinus*).

1573. *Epinephelus mystacinus* (Poey). *Cherna de lo Alto*.

West Indies south to Brazil.

Serranus mystacinus Poey, Memorias, I, 52, tab. 10, fig. 1, 1851, Cuba.

Subgenus EPINEPHELUS Bloch.

1574. *Epinephelus analogus* Gill. *Cabrilla Pinta*.

Pacific Coast of tropical America; common on Pacific Coast of Mexico.

Epinephelus analogus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 163, Panama.

1575. *Epinephelus adscensionis* (Osbeck). *Rook Hind*; *Cabra Mora*.

West Indies; Florida Keys to Brazil; Ascension and St. Helena islands.

Trachinus adscensionis Osbeck, Iter Chin., etc., 1757, and English edition, 96, 1771, Ascension Island.

1576. *Epinephelus guaza* (Linnæus). *Merou*; *Méro*; *Guasa*.

Coasts of southern Europe and western Africa, ranging north to England, southward to Cape of Good Hope, and westward to Rio Janeiro and to Guiana.

Labrus guaza Linnæus, Syst. Nat., ed. x, 285, 1758, "Habitat in Pelago."

1577. *Epinephelus labriformis* (Jenyns).

Pacific Coast of tropical America; Cape San Lucas to Galapagos Islands.

Serranus labriformis Jenyns, Zool. Beagle, Fishes, 8, pl. 3, 1840, Galapagos.

1578. *Epinephelus flavolimbatus* Poey. *Yellow-finned Grouper*.

West Indies, north to Pensacola.

Epinephelus flavolimbatus Poey, Repertorio, I, 183, 1867, Cuba.

1579. *Epinephelus niveatus* (Cuvier & Valenciennes).

West Indies to Brazil, occasionally northward in the Gulf Stream as far as Newport, Rhode Island, and Woods Hole, Massachusetts.

Serranus niveatus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 380, 1828, Brazil.

1580. *Epinephelus striatus* (Bloch). *Nassau Grouper*; *Hamlet*; *Cherna Criolla*; *Grouper*; *Rookfish*.

West Indian fauna; Key West to Brazil.

Anthias striatus Bloch, Ichthyologia, pl. 324, 1792, Martinique; on figure by Plumier.

1581. *Epinephelus maculosus* (Cuvier & Valenciennes). *Cabrilla*; *Red Hind*.

West Indies, occasionally north to Charleston, Florida Keys, and the Bermudas; south to Brazil.

Serranus maculosus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 332, 1828, Martinique.

1582. *Epinephelus drummond-hayi* Goode & Bean. *Speckled Hind*; *John Paw*.

Bermudas, South Atlantic and Gulf Coast of United States; Charleston, South Carolina.

Epinephelus drummond-hayi Goode & Bean, Proc. U. S. Nat. Mus. 1878, 173, 174, Pensacola; Bermuda.

1583. *Epinephelus morio* (Cuvier & Valenciennes). *Red Grouper*; *Cherna Americana*; *Cherna de Vivero*; *Nègre*.

Atlantic Coast of America, Virginia to Rio Janeiro.

Serranus morio Cuvier & Valenciennes, Hist. Nat. Poiss., II, 285, 1828, New York and San Domingo.

Genus 504. GARRUPA Jordan. *Black Groupers.**Garrupa* Jordan, Bull. U. S. Fish Com., VIII, 1888 (1890), 353 (*nigritus*).

- 1584. *Garrupa nigrita*** (Holbrook). *Black Jewfish; Black Grouper; Mero de lo Alto.*
 South Atlantic and Gulf Coast of the United States, Charleston and Pensacola to Cuba and Brazil; straying to Sicily.
Serranus nigritus Holbrook, Ichth. South Carolina, ed. 1, 173, pl. 25, fig. 11, 1856, Charleston, S. C.

Genus 505. PROMICROPS Gill. *Guasas.**Promicrops* Gill, in Poey, Synopsis, 287, 1868 (*guasa*).

- 1585. *Promicrops guttatus*** (Linnæus). *Guasa; Spotted Jewfish; Merou.*
 Both coasts of tropical America, north to Florida and Gulf of California, south to Brazil.
Perca guttata Linnæus, Syst. Nat., x, 292, 1758; after Maregrave, Willughby, etc.

Genus 506. ALPHESTES Bloch & Schneider.*Alphestes* Bloch & Schneider, Syst. Ichthyol., 236, 1801 (*afer*).

- 1586. *Alphestes afer*** (Bloch). *Quaseta.*
 West Indies; Cuba to Brazil.
Epinephelus afer Bloch, Ichthyologia, pl. 327, 1793, Acara, in Guinea.
- 1587. *Alphestes multiguttatus*** (Günther).
 Pacific Coast of tropical America; Mazatlan to Panama.
Plectropoma multiguttatum Günther, Proc. Zool. Soc. Lond. 1866, 600, Panama.

Genus 507. DERMATOLEPIS Gill.*Dermatolepis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54 (*punctatus*).**Subgenus LIOPERCA** Gill.*Lioperca* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*inermis*).

- 1588. *Dermatolepis inermis*** (Cuvier & Valenciennes).
 West Indies.
Serranus inermis Cuvier & Valenciennes, Hist. Nat. Poiss., ix, 436, 1833, Antilles.

Subgenus DERMATOLEPIS GILL.*Dermatolepis* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54 (*punctatus*).

- 1589. *Dermatolepis punctatus*** Gill.
 West coast of Mexico; Cape San Lucas; the Venados; the Revillagigedos.
Dermatolepis punctatus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 54, Cape San Lucas.

Genus 508. MYCTEROPERCA Gill.*Mycteroperca* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 80 (*olfax*).**Subgenus ARCHOPERCA** Jordan & Evermann.*Archoperca* Jordan & Evermann, Fishes North and Middle America, 1171, 1896 (*boulengeri*).

- 1590. *Mycteroperca boulengeri*** Jordan & Starks. *Cabrilla Raizer; Mangrove Grouper.*
 Mazatlan, Mexico.
Mycteroperca boulengeri Jordan & Starks, in Jordan, Fishes Sinaloa, 445, pl. 38, 1895, taken in the Astillero at Mazatlan, Mexico.

Subgenus TRISOTROPIS Gill.*Trisotropis* Gill, Proc. Ac. Nat. Sci. Phila. 1865, 104 (*guttatus* = *venenosus*).

- 1591. *Mycteroperca venenosa*** (Linnæus). *Rockfish; Yellow-finned Grouper; Bonaci de Piedra.*
 Bahamas, Florida Keys, and southward.
Perca venenosa Linnæus, Syst. Nat., ed. x, 292, 1758, Bahamas; after Catesby.

- 1591a. *Mycteroperca venenosa apua* (Bloch). *Bonaci Cardenal*.
West Indies, Florida Keys, and southward to Brazil.
Bodianus apua Bloch, Ichth., VII, 37, taf. 229, 1790, Brazil; after a drawing
by Prince Maurice—the same used by Marcgrave.
1592. *Mycteroperca bonaci* (Poey). *Marbled Rockfish*.
West Indies, Pensacola to Brazil.
Serranus bonaci Poey, Memorias, II, 129, 1860, Cuba.
- 1592a. *Mycteroperca bonaci xanthosticta* Jordan & Swain.
Snapper Banks off Pensacola, Florida.
Mycteroperca bonaci xanthosticta Jordan & Swain, Proc. U. S. Nat. M u 1884,
371, Snapper Banks off Pensacola, Florida.
1593. *Mycteroperca jordani* (Jenkins & Evermann). *Cabrilla de Astillero; Baya*.
Pacific Coast of Mexico from Gulf of California to Mazatlan.
Epinephelus jordani Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 140,
Guaymas, Sonora.
1594. *Mycteroperca microlepis* (Goode & Bean). *Gog; Aquaji*.
South Atlantic and Gulf Coast of the United States, north to Beaufort,
North Carolina, and Pensacola, Florida.
Trisotropis microlepis Goode & Bean, Proc. U. S. N. M. 1879, 141, west Florida.
1595. *Mycteroperca interstitialis* (Poey).
Coast of Cuba.
Serranus interstitialis Poey, Memorias, II, 127, 1860, Cuba.
1596. *Mycteroperca dimidiata* (Poey).
Coast of Cuba.
Serranus dimidiatus Poey, Memorias, II, 129, 1860, Cuba.
1597. *Mycteroperca xenarcha* Jordan.
Galapagos Archipelago; coast of Peru.
Mycteroperca xenarcha Jordan, Proc. Ac. Nat. Sci. Phila. 1887, 387, Galapagos
Islands; Payta.
Subgenus PAREPINEPHELUS Bleeker.
Parepinephelus Bleeker, Systema Percarum Revisum, 257, 1875 (*acutirostris*).
1598. *Mycteroperca rubra* (Bloch). *Scirenga*.
West Indies, Brazil, Mediterranean Sea, and islands of the eastern Atlantic.
Epinephelus ruber Bloch, Ichthyologia, VII, 22, 1793, pl. 330, "Japan."
Subgenus XYSTROPERCA Jordan & Evermann.
Xystroperca Jordan & Evermann, Fishes North and Middle America, 1181,
1896 (*pardalis*).
1599. *Mycteroperca pardalis* Gilbert. *Cabrilla Piritita*.
Gulf of California.
Mycteroperca pardalis Gilbert, Proc. U. S. Nat. Mus. 1891, 551, La Paz Bay,
Lower California.
Subgenus MYCTEROPERCA Gill.
1600. *Mycteroperca olfax* (Jenyns). *Yellow Grouper*.
James Island, Galapagos Archipelago; Panama.
Serranus olfax Jenyns, Zool. Beagle, Fishes, 9, pl. 4, 1840, Galapagos Islands.
- 1600a. *Mycteroperca olfax ruberrima* Jordan & Bollman.
Abingdon Island, Galapagos Archipelago.
Mycteroperca olfax ruberrima Jordan & Bollman, in Jordan & Eigenmann,
Review Serranidae, 367, 1890, Abingdon Island, Galapagos Archipelago.
1601. *Mycteroperca rosacea* (Streets). *Cabrilla Calamaria*.
Gulf of California.
Epinephelus rosaceus Streets, Bull. U. S. Nat. Mus., VII, 51, 1877, Angel Island,
Gulf of California.

- 1602. *Mycteroperca falcata* (Poey). *Scamp; Bacalao; Abadejo.*
West Indies, north to Bermuda.
Serranus falcatus Poey, *Memorias*, II, 138, 1860, Havana.**
- 1602a. *Mycteroperca falcata phenax* Jordan & Swain. *Scamp; Bacalao.*
Coasts of southern Florida, abundant about the Keys.
Mycteroperca falcata phenax Jordan & Swain, *Proc. U. S. Nat. Mus.* 1884, 363,
Key West, Florida.**
- 1603. *Mycteroperca venadorum* Jordan & Starks. *Garlopa.*
West coast of Mexico at Mazatlan.
Mycteroperca venadorum Jordan & Starks, in Jordan, *Proc. Cal. Ac. Sci.* 1895,
446, Mazatlan, Mexico.**
- 1604. *Mycteroperca calliura* Poey.
Coast of Cuba.
Mycteroperca calliura Poey, *Repertorio*, I, 181, 309, 1867, Cuba.**
- 1605. *Mycteroperca tigris* (Cuvier & Valenciennes). *Bonaci Gato; Rockfish.*
West Indies, north to Bermuda.
Serranus tigris Cuv. & Val., *Hist. Nat. Poiss.*, IX, 440, 1833, San Domingo.**
- 1605a. *Mycteroperca tigris camelopardalis* (Poey).
West Indies.
Serranus camelopardalis Poey, *Memorias*, II, 132, 1860, Havana.**
- Genus 509. CRATINUS Steindachner.
Cratinus Steindachner, *Ichth. Beitr.*, VII, 19, 1878 (*agassizii*).**
- 1606. *Cratinus agassizii* Steindachner.
Galapagos Archipelago.
Cratinus agassizii Steindachner, *Ichth. Beitr.*, VII, 19, 1878, Galapagos Islands.**
- Genus 510. HYPOPLECTRUS Gill. *Vacas.*
Hypoplectrus Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 236 (*puella*).**
- 1607. *Hypoplectrus lamprurus* (Jordan & Gilbert).
Panama.
Serranus lamprurus Jordan & Gilbert, *Bull. U. S. Fish Com.*, I, 1881, 322,
Panama.**
- 1608. *Hypoplectrus unicolor* (Walbaum). *Vaca; Petit-nègre.*
West Indies, north to Florida Keys.
Perca unicolor Walbaum, *Artedi Piscium*, III, 352, 1792, locality unknown.**
- 1608a. *Hypoplectrus unicolor puella* (Cuvier & Valenciennes). *Vaca.*
Martinique.
Plectropoma puella Cuvier & Valenciennes, *Hist. Nat. Poiss.*, II, 405, pl. 37,
1828, Martinique.**
- 1608b. *Hypoplectrus unicolor vitulinus* (Poey).
Havana:
Plectropoma vitulinum Poey, *Memorias*, I, 68, 1851, Havana.**
- 1608c. *Hypoplectrus unicolor pinnivarius* Poey.
Havana.
Hypoplectrus pinnivarius Poey, *Synopsis*, 291, 1868, Havana.**
- 1608d. *Hypoplectrus unicolor guttavarius* (Poey).
Havana.
Plectropoma guttavarium Poey, *Memorias*, I, 70, 1851, Havana.**
- 1608e. *Hypoplectrus unicolor gummigutta* (Poey).
Havana.
Plectropoma gummigutta Poey, *Memorias*, I, 70, 1851, Havana.**
- 1608f. *Hypoplectrus unicolor crocotus* (Cope).
West Indies.
Plectropoma crocota Cope, *Trans. Am. Phil. Soc. Phila.*, XIV, 1871, 466, St. Mar-
tins, West Indies.**

- 1608g. *Hypoplectrus unicolor aberrans* Poey.
Havana.
Hypoplectrus aberrans Poey, Synopsis, 291, 1868, Havana.
- 1608h. *Hypoplectrus unicolor accensus* (Poey).
Havana.
Plectropoma accensum Poey, Memorias, I, 72, 1851, Havana.
- 1608i. *Hypoplectrus unicolor affinis* (Poey).
Havana.
Plectropoma affine Poey, Memorias, II, 427, 1861, Havana.
- 1608j. *Hypoplectrus unicolor chlorurus* (Cuvier & Valenciennes).
Martinique.
Plectropoma chlorurum Cuv. & Val., Hist. Nat. Poiss., II, 406, 1828, Martinique.
- 1608k. *Hypoplectrus unicolor nigricans* (Poey).
Havana.
Plectropoma nigricans Poey, Memorias, I, 71, 1851, Havana.
- 1608l. *Hypoplectrus unicolor indigo* (Poey). *Añil*.
Havana.
Plectropoma indigo Poey, Memorias, I, 69, pl. 3, fig. 1, 1851, Havana.
- 1608m. *Hypoplectrus unicolor bovinus* (Poey).
Havana.
Plectropoma bovinum Poey, Memorias, I, 69, 1851, Havana.
1609. *Hypoplectrus gemma* Goode & Bean.
Florida Keys; known from one specimen from Garden Key, Florida.
Hypoplectrus gemma Goode & Bean, Proc. U. S. Nat. Mus. 1882, 428, Garden Key, Florida.
- Genus 511. **PARALABRAX** Girard. *Cabrillas Verdes*.
Paralabrax Girard, Proc. Ac. Nat. Sci. Phila. 1856, 131 (*nebulifer*).
1610. *Paralabrax nebulifer* (Girard). "*Johnny Verde*."
Southern California, from Monterey to Magdalena Bay.
Labrax nebulifer Girard, Proc. Ac. Nat. Sci. Phila. 1854, 142, Monterey, Cal.
1611. *Paralabrax maculatofasciatus* (Steindachner). *Spotted Cabrilla*.
Pacific coast of America from Lower California to San Pedro and Mazatlan.
Serranus maculatofasciatus Steindachner, Ichth. Notizen, VII, 5, 1868, Mazatlan, Mexico.
1612. *Paralabrax humeralis* (Cuvier & Valenciennes).
Pacific Coast of South America; Panama to Juan Fernandez.
Serranus humeralis Cuv. & Val., Hist. Nat. Poiss., II, 246, 1828, Chile.
1613. *Paralabrax clathratus* (Girard). *Cabrilla*; *Rock Bass*.
Coast of southern California, from San Francisco to the Cerros Islands.
Labrax clathratus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143, San Diego.
- Genus 512. **CENTROPRISTES** Cuvier & Valenciennes. *Black Sea-bass*.
Centropristes, Cuvier, Hist. Nat. Poiss., III, 36, 1829 (*nigricans*).
- Subgenus **CENTROPRISTES** Cuvier & Valenciennes.
1614. *Centropristes rufus* Cuvier & Valenciennes.
Martinique.
Centropristes rufus Cuv. & Val., Hist. Nat. Poiss., III, 47, 1829, Martinique.
1615. *Centropristes striatus* (Linnaeus). *Black Sea-bass*; *Blackfish*; *Tally-wag*; *Hannahill*; *Black Will*; *Black Harry*.
Atlantic Coast of United States, Cape Ann to northern Florida.
Labrus striatus Linnaeus, Syst. Nat., ed. x, 285, 1758, "America"; description very brief, but not to be referred to any other fish.

- 1616. *Centropristes ocyurus* (Jordan & Evermann).** *Gulf Sea-bass.*
Gulf of Mexico at Snapper Banks off Pensacola, Florida.
Serranus ocyurus Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 468, Snapper Banks off Pensacola, Florida.
- Subgenus **TRILOBURUS** Gill.
Tyloburus Gill, Cat. Fish. East Coast U. S., 30, 1861 (*trifurca*).
- 1617. *Centropristes philadelphicus* (Linnaeus).**
Coast of South Carolina.
Perca philadelphica Linnaeus, Syst. Nat., ed. x, 291, 1758, America.
- Genus **513. DIPLECTRUM** Holbrook. *Squirrel-fishes.*
Diplectrum Holbrook, Ichthyology of South Carolina, ed. 1, 32, 1856 (*fasciularis* = *formosus*).
- Subgenus **HALIPERCA** Gill.
Haliperca Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*bivittatus* = *radialis* and other species; restricted to *bivittatus* by Jordan & Gilbert, Syn., 535).
- 1618. *Diplectrum sciurus* Gilbert.**
Gulf of California.
Diplectrum sciurus Gilbert, Proc. U. S. Nat. Mus. 1891, 550, Gulf of California, at Albatross stations Nos. 3014, 3021, 3026, and 3033, all in shallow water.
- 1619. *Diplectrum radiale* (Quoy & Gaimard).** *Aguavina.*
Both coasts of tropical America, north to Havana and Guaymas; common on the coast of Brazil and in the Gulf of California.
Serranus radialis Quoy & Gaimard, Voyage Uranie, 316, 1824, Rio Janeiro.
- 1620. *Diplectrum macropoma* (Günther).**
Pacific Coast of tropical America.
Centropristes macropoma Günther, Proc. Zool. Soc. Lond. 1864, 145, Panama.
- 1621. *Diplectrum euryplectrum* Jordan & Bollman.**
Coast of Colombia, southwest of Panama.
Diplectrum euryplectrum Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 157, Pacific Ocean, off coast of Colombia.
- Subgenus **DIPLECTRUM** Holbrook.
- 1622. *Diplectrum formosum* (Linnaeus).** *Squirrel-fish; Serrano; Sandfish.*
West Indies; common on the South Atlantic and Gulf coasts of the United States, from Charleston south to Montevideo.
Perca formosa Linnaeus, Syst. Nat., ed. XII, 488, 1766, Carolina.
- Genus **514. PRIONODES** Jenyns.
Prionodes Jenyns, Voyage Beagle, Fishes, 46, 1840 (*fasciatus*).
- Subgenus **PRIONODES** Jenyns.
- 1623. *Prionodes æquidens* (Gilbert).**
Gulf of California.
Serranus æquidens Gilbert, Proc. U. S. Nat. Mus. 1890, 61, Gulf of California, at Albatross Station No. 2996, in 112 fathoms.
- 1624. *Prionodes fuscus* (Poey).**
Cuba.
Centropristes fuscus Poey, Memorias, II, 342, 1861, Havana.
- 1625. *Prionodes phæbe* (Poey).** *Phæbe.*
West Indies, north to Pensacola, Florida.
Serranus phæbe Poey, Memorias, I, 55, pl. 2, fig. 3, 1851, Havana.
- 1626. *Prionodes fasciatus* Jenyns.**
Pacific Coast of Mexico, Cape San Lucas to Galapagos Islands.
Prionodes fasciatus Jenyns, Voyage Beagle, Fishes, 46, 1840, Chatham Island, Galapagos Archipelago.

1627. *Prionodes bulleri* (Boulenger).

Coast of Jalisco, western Mexico.

Serranus bulleri Boulenger, Cat., 1, 288, 1895, Las Peñas, Jalisco, Mexico.

Subgenus MENTIPERCA GILL.

Mentiperca Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*luciopercanus*).**1628. *Prionodes tigrinus* (Bloch).**

West Indies.

Holocentrus tigrinus Bloch, pl. 237, 1790, East Indies; after Loba, Thesaurus, III, pl. XXVII, fig. 5.**1629. *Prionodes tabacarius* (Cuvier & Valenciennes). *Jacomc; Bout de Tabac.***

West Indies.

Centropristis tabacarius Cuvier & Valenciennes, Hist. Nat. Poiss., III, 44, 1829, Martinique.**1630. *Prionodes flavescens* (Cuvier & Valenciennes).**

Martinique.

Serranus flavescens Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 506, 1830, Martinique.**1631. *Prionodes luciopercanus* (Poey).**

Coast of Cuba.

Serranus luciopercanus Poey, Memorias, 1, 56, pl. 9, fig. 1, 1851, Havana.**1632. *Prionodes stilbostigma* Jordan & Bollman.**

Coast of Ecuador.

Prionodes stilbostigma Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 158, Pacific Ocean off the coast of Ecuador, 0° 50' S., 89° 36' W., in 45 fathoms, at Albatross Station 2809.Genus 515. **DULES** Cuvier.*Dules* Cuvier, Règne Animal, ed. II, vol. II, 147, 1829 (*auriga*).**1633. *Dules subligarius* (Cope).**

South Atlantic coasts of United States; known from Beaufort, Charleston, and Pensacola Snapper Banks.

Centropristis subligarius Cope, Proc. Ac. Nat. Sci. Phila. 1870, 120, Pensacola, Florida.**1634. *Dules dispilurus* (Günther). *Grassy-ground Rockfish.***

Trinidad; Jamaica.

Centropristis dispinosus Günther, Proc. Zool. Soc. Lond. 1867, 99, Trinidad.**1635. *Dules auriga* Cuvier & Valenciennes.**

Coast of Brazil and Uruguay, occasionally northward.

Dules auriga Cuvier & Valenciennes, Hist. Nat. Poiss., III, 112, pl. 51, 1829, Brazil.Genus 516. **PARANTHIAS** Guichenot.*Paranthias* Guichenot, Ann. Soc. Linn. Maine-et-Loire, X, 1868 (*furcifer* = *creolus*).**1636. *Paranthias furcifer* (Cuvier & Valenciennes). *Rabirubia de lo Alto; Creole-fish.***

Both coasts of tropical America, Cuba to Brazil, Cape San Lucas to the Galapagos Archipelago.

Serranus furcifer Cuvier & Valenciennes, Hist. Nat. Poiss., II, 264, 1828, Brazil.Genus 517. **HEMIANTHIAS** Steindachner.*Hemianthias* Steindachner, Ichth. Beitr., I, 4, 1874 (*peruanus*).**1637. *Hemianthias peruanus* Steindachner.**

Coasts of Peru and Chile, occasionally northward; off the coast of Lower California.

Anthias (Hemianthias) peruanus Steindachner, Ichth. Beitr., I, 4, 1874, Payta; Trujillo.

- 1638. *Hemianthias vivanus*** (Jordan & Swain).
Gulf of Mexico; Snapper Banks between Pensacola and Tampa, Florida.
Anthias vivanus Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 514, from stomach of a red snapper taken at the Snapper Banks off Pensacola, Florida.
- Genus 518. PRONOTOGRAMMUS** Gill.
Pronotogrammus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 81 (*multifasciatus*).
- 1639. *Pronotogrammus eos*** Gilbert.
Pacific Coast of tropical America.
Pronotogrammus eos Gilbert, Proc. U. S. Nat. Mus. 1890, 62, west coast of Mexico, at Albatross Station 2996, in 112 fathoms.
- 1640. *Pronotogrammus multifasciatus*** Gill.
Cape San Lucas, Lower California.
Pronotogrammus multifasciatus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 81, Cape San Lucas, Lower California.
- Genus 519. ANTHIAS** Bloch. *Barbiers*.
Anthias Bloch, Auslanische Fische, vi, 97, 1792 (*anthias*).
- 1641. *Anthias asperilinguis*** Günther.
Atlantic Coast of South America; only the type known.
Anthias asperilinguis Günther, Cat., 1, 89, 1859, South America; probably Guiana.
- Genus 520. OCYANTHIAS** Jordan & Evermann.
Ocyanthias Jordan & Evermann, Fishes North and Middle America, 1227, 1896 (*martinicensis*).
- 1642. *Ocyanthias martinicensis*** (Guichenot).
West Indies.
Aylopon martinicensis Guichenot, Anthiani, Ann. Linn. Soc., vol. x, 1868, Martinique.
- Genus 521. GRAMMA** Poey.
Gramma Poey, Synopsis, 296, 1868 (*loreto*).
- 1643. *Gramma loreto*** Poey.
Matanzas, Cuba; only the type known.
Gramma loreto Poey, Synopsis, 296, 1868, Matanzas, Cuba.
- Genus 522. RYPTICUS** Cuvier. *Soapfishes*.
Rypticus Cuvier, Règne Animal, ed. 2, vol. II, 144, 1829 (*saponaceus*).
- 1644. *Rypticus xanti*** Gill.
Pacific Coast of Mexico, from Cape San Lucas to Colima and Mazatlan.
Rhypticus xanti Gill, Proc. Ac. Nat. Sci. Phila. 1862, 250, Cape San Lucas.
- 1645. *Rypticus bicolor*** (Valenciennes).
Galapagos Archipelago.
Smecticus bicolor Valenciennes, Voyage de la Vénus, Poissons, 307, pl. 2, fig. 2, 1855, Galapagos Archipelago.
- 1646. *Rypticus saponaceus*** (Bloch & Schneider). *Soapfish; Jabon; Jaboncillo*.
West Indies; Pensacola to west Africa and Brazil.
Anthias saponaceus Bloch & Schneider, Syst. Ichth., 310, 1801, Havana.
- 1647. *Rypticus arenatus*** Cuvier & Valenciennes.
West Indies and coast of Brazil; recorded from Jamaica, Trinity, Barbados, and St. Thomas.
Rypticus arenatus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 65, pl. 45, 1829, Brazil.
- 1648. *Rypticus coriaceus*** (Cope). *Black Soapfish*.
West Indies; recorded from St. Martins and Jamaica.
Eleutheractis coriaceus Cope, Trans. Amer. Philos. Soc. 1870, 467, St. Martins.

Subgenus PROMICROPTERUS GILL.

Promicropterus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 53 (*maculatus*).

1649. *Rypticus bistrispinus* (Mitchill).

South Atlantic Coast of United States; frequent off Charleston, Pensacola, and Key West; occasional as far north as Newport, Rhode Island.
Bodianus bistrispinosus Mitchill, Am. Monthly Magazine and Crit. Review, February, 1818, 247, Straits of Bahama.

1650. *Rypticus nigripinnis* Gill.

Pacific Coast of tropical America, Cape San Lucas to Panama.
Rhypticus nigripinnis Gill, Proc. Ac. Nat. Sci. Phila. 1861, 53, Panama.

Family CXLIX. LOBOTIDÆ. The Triple-tails.

Genus 523. LOBOTES Cuvier.

Lobotes Cuvier, Règne Animal, ed. 2, II, 177, 1829 (*crata* = *surinamensis*).

1651. *Lobotes surinamensis* (Bloch). *Flasher*; *Triple-tail*; *Dormeur*.

Atlantic Coast from Cape Cod to Surinam; Mediterranean.
Holocentrus surinamensis Bloch, Ichth., pl. 243, 1790, Surinam.

1652. *Lobotes pacificus* Gilbert.

Known only from Panama.
Lobotes pacificus Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

Family CL. PRIACANTHIDÆ. Catalufas.

Genus 524. PRIACANTHUS Cuvier.

Priacanthus Cuvier, Règne Animal, ed. I, 281, 1817 (*macrophthalmus*).

1653. *Priacanthus arenatus* Cuvier & Valenciennes. *Catalufa*.

West Indies, south to Brazil; occasionally northward in the Gulf Stream to Newport and Woods Hole.
Priacanthus arenatus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 101, 1829, Brazil.

1654. *Priacanthus cruentatus* (Lacépède). *Big Eye*; *Catalufa*.

West Indies to St. Helena and the Canaries.
Labrus cruentatus Lacépède, Hist. Nat. Poiss., III, 522, 1800, Martinique; from a copy by Aubriet of a plate made by Plumier at Martinique.

Genus 525. PSEUDOPRIACANTHUS Bleeker.

Pseudopriacanthus Bleeker, Versl. Ak. Wet. Amsterd. (2), III, 241, 1869 (*niphonius*).

1655. *Pseudopriacanthus serrula* (Gilbert).

Pacific Coast of Colombia.
Priacanthus serrula Gilbert, Proc. U. S. Nat. Mus. 1890, 450, west coast of Colombia, at Albatross Station 2797.

1656. *Pseudopriacanthus altus* (Gill).

West Indies, north to Pensacola and Charleston.
Priacanthus altus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 132, Narragansett Bay.

Family CLI. LUTIANIDÆ. The Snappers.

Genus 526. HOLOPAGRUS Gill.

Hoplopagrus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 253 (*guntheri*).

1657. *Hoplopagrus guntheri* Gill. *Pargo*.

Pacific Coast of tropical America, from Guaymas to Panama.
Hoplopagrus guntheri Gill, Proc. Ac. Nat. Sci. Phila. 1862, 253, Cape San Lucas, Lower California.

Genus 527. *EOPLITES* Gill.

Evoplites Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*pomacanthus* = young of *kasmira*).

1658. *Evoplites viridis* (Valenciennes).

Rocky islands of the eastern Pacific; known from Galapagos, Tres Marias, and Revillagigedo islands.

DiaCOPE viridis Valenciennes, Voyage de la Vénus, 303, pl. 1, fig. 2 (very bad), 1845, Galapagos Islands.

Genus 528. *NEOMÆNIS* Girard. *Snappers*.

Neomænis Girard, U. S. Mex. Boun. Sur., Zool., 18, 1859 (*emarginatus* = *griseus*).

Subgenus *NEOMÆNIS* Girard.

1659. *Neomænis jordani* Gilbert.

Panama.

Neomænis jordani Gilbert, Fishes Panama, Proc. Cal. Ac. Sci. 1896, Panama.

1660. *Neomænis novemfasciatus* (Gill). *Pargo Prieto*; *Pargo Marcño*; *Pargo Negro*. Pacific Coast of tropical America; Cape San Lucas; Guaymas; Mazatlan; Punta Arenas; San Blas; Panama.

Lutjanus novemfasciatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 251, Cape San Lucas, Lower California.

1661. *Neomænis cyanopterus* (Cuvier & Valenciennes). *Cubera*.

West Indies to Brazil.

Mesoprion cyanopterus Cuv. & Val., Hist. Nat. Poiss., II, 472, 1828, Brazil.

1662. *Neomænis griseus* (Linnaeus). *Gray Snapper*; *Mangrove Snapper*; *Caballero*; *Lawyer*.

West Indies; ranging from New Jersey to Brazil.

Labrus griseus Linnaeus, Syst. Nat., ed. X, 283, 1758; after Catesby.

1663. *Neomænis jocu* (Bloch & Schneider). *Dog Snapper*; *Jocú*.

West Indies, north to Florida Keys, south to Bahia.

Anthias jocu Bloch & Schneider, Syst. Ichth., 310, 1801, Cuba; after Parra.

1664. *Neomænis apoda* (Walbaum). *Schoolmaster*; *Caji*.

West Indies, north to Key West, south to Bahia.

† *Perca apoda* Walbaum, Artedi Piscium, 351, 1792; based on the "Schoolmaster" of Catesby.

1665. *Neomænis argentiventris* (Peters). *Pargo Amarillo*.

Pacific Coast of tropical America.

Mesoprion argentiventris Peters, Berlin. Monatsber. 1869, 704, Mazatlan.

1666. *Neomænis lutjanoides* (Poey).

Cuba.

Ooyurus lutjanoides Poey, Ann. Lyc. Nat. Hist., IX, 1871, 319, Cuba.

1667. *Neomænis buccanella* (Cuvier & Valenciennes). *Sesi de lo Alto*; *Oreille Noire*; *Boucanelle*; *Blackfin Snapper*.

West Indies; Havana.

Mesoprion buccanella Cuvier & Valenciennes, Hist. Nat. Poiss., II, 455, 1828, Martinique.

1668. *Neomænis vivanus* (Cuvier & Valenciennes). *Pargo de lo Alto*; *Silk Snapper*.

West Indies; Havana.

Mesoprion vivanus Cuv. & Val., Hist. Nat. Poiss., II, 454, 1828, Martinique.

1669. *Neomænis aya* (Bloch). *Red Snapper*; *Pargo Colorado*; *Pargo Guachinango*; *Acara Aya*.

Long Island to Brazil; Gulf of Mexico, and about Yucatan.

Bodianus aya Bloch, Ichthyol., pl. 227, 1790, Brazil; after Marograve.

1670. *Neomænis analis* (Cuvier & Valenciennes). *Mutton-fish*; *Pargo*; *Pargo Criollo*.

West Indies; Pensacola to Brazil.

Mesoprion analis Cuv. & Val., Hist. Nat. Poiss., II, 452, 1828, San Domingo.

1671. *Neomænis colorado* (Jordan & Gilbert). *Pargo Colorado*.
Pacific Coast of Mexico, Guaymas to Panama.
Lutjanus colorado Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 338, 351, 355,
Mazatlan, Mexico.
1672. *Neomænis brachypterus* (Cope).
Bahama Islands.
Lutjanus brachypterus Cope, Trans. Amer. Philos. Soc. 1871, 470, New Providence, Bahama Islands.
1673. *Neomænis guttatus* (Steindachner). *Flamenco*.
Pacific Coast of Mexico, from Guaymas to Panama.
Mesoprion guttatus Steindachner, Ichthyol. Notizen, ix, 18, pl. 8, 1869,
Mazatlan, Mexico.
1674. *Neomænis synagris* (Linnæus). *Lane Snapper*; *Biajaiba*; *Red-tail Snapper*.
West Indies; Florida Keys to Colon and Brazil.
Sparus synagris Linnæus, Syst. Nat., ed. x, 280, 1758, Carolina; after Catesby.
1675. *Neomænis ambiguus* (Poey).
Cuba.
Mesoprion ambiguus Poey, Mem., II, 152, pl. 12, fig. 4, pl. 13, fig. 8, 1860, Cuba.
1676. *Neomænis mahogoni* (Cuvier & Valenciennes). *Ojanco*; *Mahogany Snapper*.
West Indies; Havana.
Mesoprion mahogoni Cuvier & Valenciennes, Hist. Nat. Poiss., II, 447, 1828,
Martinique.
Subgenus RAIZERO Jordan & Fesler.
Raizero Jordan & Fesler, Rept. U. S. Fish Com. 1889 (1893), 438 (*aratus*).
1677. *Neomænis aratus* (Günther). *Pargo de Raizero*.
Pacific Coast of tropical America.
Mesoprion aratus Günther, Proc. Zool. Soc. Lond. 1864, 145, Panama; Chiapas.
Genus 529. RABIRUBIA Jordan & Fesler.
Rabirubia Jordan & Fesler, Rept. U. S. Fish Com. 1889 (1893), 438 (*inermis*).
1678. *Rabirubia inermis* (Peters).
Pacific Coast of America from Mazatlan to Panama.
Mesoprion inermis Peters, Berliner Monatsber. 1869, 705, Mazatlan, Mexico.
Genus 530. OCYURUS Gill. *Rabirubias*.
Ocyurus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 236 (*chrysurus*).
1679. *Ocyurus chrysurus* (Bloch). *Yellow-tail*; *Rabirubia*.
West Indies, southern Florida to Brazil.
Sparus chrysurus Bloch, Ichthyol., pl. 262, 1790, Brazil; after Maregrave.
Genus 531. RHOMBOPLITES Gill.
Rhomboplites Gill, Proc. Ac. Nat. Sci. Phila. 1862, 237 (*aurorubens*).
1680. *Rhomboplites aurorubens* (Cuvier & Valenciennes). *Cagon de lo Alto*.
West Indies, north to Charleston, south to Rio Janeiro.
Centropristis aurorubens Cuvier & Valenciennes, Hist. Nat. Poiss., III, 45, 1829,
Brazil, Martinique, and San Domingo.
Genus 532. APSILUS Cuvier & Valenciennes. *Arnillos*.
Apsilus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 548, 1830 (*fuscus*, an
East Indian species).
Subgenus TROPIDINIUS Gill.
Tropidinius Gill, in Poey, Synopsis, 296, 1868 (*arnillo* = *dentatus*).
1681. *Apsilus dentatus* Guichenot. *Arnillo*.
West Indies; Havana.
Apsilus dentatus Guichenot, in Ramon de la Sagra, Hist. Cuba: Poiss., 29, pl. 1,
fig. 2, 1845, Havana.

Genus 533. **APRION** Cuvier & Valenciennes. *Forazes*.

Aprion Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 543, 1830 (*virescens*).

Subgenus **PLATYINIUS** Gill.

Platyinius Gill, Proc. Ac. Nat. Sci. Phila. 1863, 237 (*vorax* = *macrophthalmus*).

1682. **Aprion macrophthalmus** (Müller & Troschel). *Foraz*.

West Indies; Havana.

Centropristis macrophthalmus Müller & Troschel, in Schomburgk, Hist. Barbados, 666, 1848, Barbados.

Genus 534. **ETELIS** Cuvier & Valenciennes.

Etelis Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 127, 1828 (*carbunculus*, a Japanese species).

1683. **Etelis oculatus** (Cuvier & Valenciennes). *Cachucho*.

West Indies to Madeira.

Serranus oculatus Cuvier & Valenciennes, Hist. Nat. Poiss., ii, 266, 1828, Martinique.

1684. **Etelis aquilonaris** (Goode & Bean).

Gulf of Mexico in deep water.

Anthias aquilonaris Goode & Bean, Oceanic Ichthyology, 238, 1896, Gulf of Mexico, at Albatross Station 2402, 28° 36' N., 85° 33' 30" W., in 111 fathoms.

Genus 535. **VERILUS** Poey.

Verilus Poey, Memorias, ii, 125, 1860 (*sordidus*).

1685. **Verilus sordidus** Poey. *Escolar Chino*.

West Indies.

Verilus sordidus Poey, Memorias, ii, 125, pl. 12, fig. 6, 1860, Cuba.

Genus 536. **XENOCYS** Jordan & Bollman.

Xenocys Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 160 (*jessie*).

1686. **Xenocys jessie** Jordan & Bollman.

Galapagos Islands.

Xenocys jessie Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 160, Charles Island, Galapagos Archipelago.

Genus 537. **XENISTIUS** Jordan & Gilbert.

Xenistius Jordan & Gilbert, Synopsis, 920, 1883 (*californiensis*).

1687. **Xenistius californiensis** (Steindachner).

Pacific Coast of America, from San Diego southward to Guaymas.

Xenichthys californiensis Steindachner, Ichth. Beitr., iii, 3, 1875, San Diego.

Genus 538. **XENICHTHYS** Gill.

Xenichthys Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82 (*xanti*).

1688. **Xenichthys agassizii** Steindachner.

Galapagos Islands.

Xenichthys agassizii Steindachner, Ichth. Beitr., iii, 6, 1875, Galapagos Islands.

1689. **Xenichthys xanti** Gill.

Pacific Coast of tropical America, from Cape San Lucas to Panama.

Xenichthys xanti Gill, Proc. Ac. Nat. Sci. Phila. 1863, 82, Cape San Lucas.

Genus 539. **NEMIPTERUS** Swainson.

Nemipterus Swainson, Nat. Hist. Fishes, etc., ii, 223, 1839 (*filamentosus*).

1690. **Nemipterus macronemus** (Günther).

Surinam.

Synagris macronemus Günther, Cat., i, 380, 1859, Surinam; after Cuvier.

Family CLII. HÆMULIDÆ. *The Grunters.*Genus 540. HÆMULON Cuvier. *Roncos* or *Grunts*.*Hæmulon* Cuvier, Règne Animal, ed. 2, vol. 2, 1829 (*elegans*, etc., restricted later to *elegans* = *sciurus*).

1691. *Hæmulon sexfasciatum* Gill. *Mojarra Almejero*.
Pacific Coast of tropical America, Guaymas to Panama.
Hæmulon sexfasciatum Gill, Proc. Ac. Nat. Sci. Phila. 1862, 254, Cape San Lucas.
1692. *Hæmulon album* Cuvier & Valenciennes. *Margate-fish; Jallao; Margaret Grunt*.
West Indies; Florida Keys to Brazil.
Hæmulon album Cuvier & Valenciennes, Hist. Nat. Poiss., v, 241, 1830, St. Thomas.
1693. *Hæmulon macrostoma* Günther. *Gray Grunt; Yellow-tail*.
West Indies, north to Florida Keys.
Hæmulon macrostoma Günther, Cat., I, 308, 1859, Jamaica.
1694. *Hæmulon bonariense* Cuvier & Valenciennes. *Black Grunt; Ronco Prieto*.
West Indies, south to Buenos Ayres.
Hæmulon bonariense Cuvier & Valenciennes, Hist. Nat. Poiss., v, 254, 1830, Buenos Ayres.
1695. *Hæmulon parra* (Desmarest). *Sailor's Choice; Ronco Blanco; Ronco Prieto; Bastard Margaret*.
West Indies; southern Florida to Brazil; very common at Key West and Havana.
Diabasis parra Desmarest, Prem. Décade Ichth., 30, pl. 2, fig. 2, 1823, Havana.
1696. *Hæmulon scudderi* Gill. *Mojarra Prieta*.
Pacific Coast of tropical America, Guaymas to Panama.
Hæmulon scudderi Gill, Proc. Ac. Nat. Sci. Phila. 1862, 253, Cape San Lucas.
1697. *Hæmulon carbonarium* Poey. *Ronco Carbonero; Cæsar Grunt*.
West Indies and the Bermudas, south to Brazil; Havana.
Hæmulon carbonarium Poey, Memorias, II, 176, 1860, Cuba.
1698. *Hæmulon steindachneri* (Jordan & Gilbert). *Roncador Raiado*.
Both coasts of tropical America; Guaymas to Panama; St. Lucia to Rio Janeiro.
Diabasis steindachneri Jordan & Gilbert, Bull. U. S. Fish Com. 1881 (1882), 322, Panama and Mazatlan.
1699. *Hæmulon melanurum* (Linnaeus). *Jeniguana; Cæsar Grunt*.
West Indies; Havana and southward.
Perca melanura Linnaeus, Syst. Nat., ed. x, 292, 1758, and ed. XII, 486, 1766, Bahamas; based on Catesby.
1700. *Hæmulon sciurus* (Shaw). *Yellow Grunt; Ronco Amarillo; Humpback Grunt; Boar Grunt*.
West Indies; Florida Keys to Brazil.
Sparus sciurus Shaw, General Zoology, IV, pl. 64, 1803, Antilles; based on the description and figure of Bloch.
1701. *Hæmulon plumieri* (Lacépède). *Common Grunt; Ronco Ronco; Ronco Arard*.
West Indies; abundant from Cape Hatteras to Rio Janeiro.
Labrus plumieri Lacépède, Hist. Nat. Poiss., III, 480, pl. 2, fig. 2, 1802, Martinique; on a copy of a drawing by Plumier, identified with this species by Cuvier.
1702. *Hæmulon flavolineatum* (Desmarest). *French Grunt; Open-mouthed Grunt; Ronco Condado*.
West Indies; Florida Keys and Bermudas to Brazil.
Diabasis flavolineatus Desmarest, Prem. Décade Ichth., 35, pl. 2, fig. 1, 1823, Cuba.

Genus 541. **BRACHYGENYS** Soudder.*Brachygenys* Soudder, in Poey, Synopsis, 310, 1868 (*taniatum*).1703. **Brachygenys chrysargyreus** (Günther).

Key West, Havana, and Trinidad.

Hemulon chrysargyreum Günther, Cat., 1, 314, 1859, Trinidad.Genus 542. **BATHYSTOMA** Scudder. *Tom-tates*.*Bathystoma* Scudder, in Putnam, Bull. Mus. Comp. Zool., 1, 12, 1863 (*jeniguano*, etc.; no definition).1704. **Bathystoma rimator** (Jordan & Swain). *Tom-tate*; *Red-mouth Grunt*; *Casar*.

West Indies; Cape Hatteras to Trinidad.

Hemulon rimator Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 308, Charleston; Key West; Pensacola.1705. **Bathystoma aurolineatum** (Cuvier & Valenciennes). *Jeniguano*.

West Indies; Florida Keys to Brazil.

Hemulon aurolineatum Cuvier & Valenciennes, Hist. Nat. Poiss., v, 237, 1830, Brazil; San Domingo.1706. **Bathystoma striatum** (Linnæus). *White Grunt*.

West Indies; Bermudas to Brazil.

Perca striata Linnæus, Syst. Nat., ed. x, 233, 1758, North America.Genus 543. **LYTHRULON** Jordan & Swain.*Lythrulon* Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 287 (*flaviguttatum*).1707. **Lythrulon flaviguttatum** (Gill).

Pacific Coast of tropical America, Guaymas to Panama.

Hemulon flaviguttatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 254, Cape San Lucas, Lower California.1708. **Lythrulon opalescens** Jordan & Starks.

Mazatlan, Mexico.

Lythrulon opalescens Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1895, 459, pl. 40, Mazatlan, Mexico.Genus 544. **ORTHOSTECHUS** Gill. *Striped Grunts*.*Orthostechus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 255 (*maculicauda*).1709. **Orthostechus maculicauda** Gill. *Roncador Rasado*.

Pacific Coast of tropical America, Guaymas to Panama.

Orthostechus maculicauda Gill, Proc. Ac. Nat. Sci. Phila. 1862, 225, Cape San Lucas, Lower California.Genus 545. **ANISOTREMUS** Gill.*Anisotremus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 107 (*virginicus*).Subgenus **PARACONODON** Bleeker.*Paraconodon* Bleeker, Archiv Neerl., xi, 272, 1876 (*pacifici*).1710. **Anisotremus pacifici** (Günther).

Pacific Coast of tropical America.

Conodon pacifici Günther, Proc. Zool. Soc. Lond. 1864, 147, Chiapas.1711. **Anisotremus cæsius** (Jordan & Gilbert).

Pacific Coast of Mexico; Mazatlan and Acapulco.

Pomadasys cæsius Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 383, Mazatlan.1712. **Anisotremus dovii** (Günther).

Pacific Coast of tropical America at Mazatlan and Panama.

Pristipoma dovii Günther, Proc. Zool. Soc. Lond. 1864, 23, Panama.Subgenus **ANISOTREMUS** GILL.1713. **Anisotremus surinamensis** (Bloch). *Pompon*.

Tropical America, from Cuba to Brazil.

Lutjanus surinamensis Bloch, Ichth., pl. 253, 1791, Surinam.

1714. *Anisotremus interruptus* (Gill). *Mojarron*.
Pacific Coast, Magdalena Bay to Panama and the Galapagos.
Geytremus interruptus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 256, Cape San Lucas, Lower California.
1715. *Anisotremus bicolor* (Castelnau). *Maria Prieta*.
Coast of Brazil; perhaps Cuba.
Pristipoma bicolor Castelnau, Anim. Nouv. ou Rares Amér. du Sud, 8, pl. 2, fig. 2, 1850, Bahia, Brazil.
1716. *Anisotremus scapularis* (Tschudi).
Coast of Peru; said to have been once taken at Mazatlan.
Pristipoma scapulare Tschudi, Fauna Peruana, 12, 1844, Huacho, Peru.
1717. *Anisotremus davidsoni* (Steindachner). *Sargo Raiado*.
Coast of southern California.
Pristipoma davidsoni Steindachner, Ichth. Beitr., III, 6, 1875, San Diego.
1718. *Anisotremus spleniatus* (Poey).
Havana.
Pristipoma spleniatum Poey, Memorias, II, 187, 1860, Havana.
1719. *Anisotremus tæniatus* Gill. *Catalina*.
Pacific Coast of tropical America; Magdalena Bay to Panama.
Anisotremus tæniatus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 107, Panama.
1720. *Anisotremus virginicus* (Linnaeus). *Catalineta*; *Porkfish*.
West Indies; Florida Keys to Brazil.
Sparus virginicus Linnaeus, Syst. Nat., ed. x, 281, 1758, South America.
1721. *Anisotremus serrula* (Cuvier & Valenciennes). *Tete-de-Roche*; *Petite Scie*.
Martinique.
Pristipoma serrula Cuv. & Val., Hist. Nat. Poiss., v, 272, 1830, Martinique.
- Genus 546. **CONODON** Cuvier & Valenciennes.
Conodon Cuvier & Valenciennes, Hist. Nat. Poiss., v, 156, 1830 (*antillanus* = *nobilis*).
1722. *Conodon nobilis* (Linnaeus).
West Indies; coast of Texas to Brazil.
Perca nobilis Linnaeus, Syst. Nat., ed. x, 191, 1758, North America.
1723. *Conodon serrifer* Jordan & Gilbert.
Lower California.
Conodon serrifer Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 351, Boca Soledad, Lower California.
- Genus 547. **BRACHYDEUTERUS** Gill. *Burritos*.
Brachydeuterus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 17 (*auritus*; an African species).
1724. *Brachydeuterus nitidus* (Steindachner).
Pacific Coast of tropical America; Panama, Mazatlan, and the Gulf of California.
Pristipoma nitidum Steindachner, Ichth. Notizen, VIII, 5, 1869, Mazatlan.
1725. *Brachydeuterus leuciscus* (Günther). *Burrito*.
Pacific Coast of tropical America; not rare at Mazatlan and Panama, south to northern Peru.
Pristipoma leuciscus Günther, Proc. Zool. Sec. Lond. 1864, 147, San Jose de Nicaragua; Chiapas.
1726. *Brachydeuterus axillaris* (Steindachner).
Pacific Coast of Mexico; Mazatlan and Guaymas.
Pristipoma axillare Steindachner, Ichth. Notizen, VIII, 7, 1869, Mazatlan.
1727. *Brachydeuterus corvinæformis* (Steindachner).
West Indies to Brazil; Jamaica.
Hemulon corvinæformis Steindachner, Ichth. Notizen, VII, 16, 1868, Santos, Brazil.

Genus 548. POMADASIS Lacépède. *Burros*.*Pomadasis* Lacépède, Hist. Nat. Poiss., iv, 516, 1803 (*argenteus*).**Subgenus RHENCUS Jordan & Evermann.***Rhencus* Jordan & Evermann, Fishes North and Middle America, 1896 (*panamensis*).**1728. *Pomadasis panamensis* (Steindachner).**

Pacific Coast of tropical America; Panama and Mazatlan.

Pristipoma panamensis Steindachner, Ichth. Beitr., 11, 8, 1875, Panama.**Subgenus PRISTIPOMA Cuvier.***Pristipoma* Cuvier, Règne Animal, ed. i, 279, 1817 (*hasta*, etc.).**1729. *Pomadasis humilis* (Kner & Steindachner).**

Pacific Coast of Panama; Rio Bayano.

Pristipoma humile Kner & Steindachner, Sitzb. Akad. Wiss. (Münch.) 1863, 222, Rio Bayano, near Panama.**1730. *Pomadasis productus* (Poey).**

Cuba.

Pristipoma productum Poey, Memorias, 11, 186, 1860, Havana.**1731. *Pomadasis macracanthus* (Günther). *Burro*.**

Pacific Coast of tropical America; Panama; Mazatlan; Chiapas, and Punta Arenas.

Pristipoma macracanthum Günther, Proc. Zool. Soc. Lond. 1864. 146, Chiapas.**1732. *Pomadasis andrei* (Sauvage).**

Rio Guayas, Ecuador.

Pristipoma andrei Sauvage, Bull. Sci. Philom. Paris, 7th series, 111, 204, 1879, Rio Guayas, Ecuador.**Subgenus RHONCISCUS Jordan & Evermann.***Rhonciscus* Jordan & Evermann, Fishes North and Middle America, 1896 (*crocro*).**1733. *Pomadasis crocro* (Cuvier & Valenciennes).**

West Indies; Cuba to Brazil.

Pristipoma crocro Cuv. & Val., Hist. Nat. Poiss., v, 264, 1830, Martinique.**1734. *Pomadasis branicki* (Steindachner). *Burrito*.**

Pacific Coast of tropical America; Mazatlan to Peru.

Pristipoma branicki Steindachner, Denkschr. kaiserl. Akad. Wiss. Wien, 111, 28, 1879, Tumbes, Peru.**1735. *Pomadasis ramosus* (Poey).**

West Indies, south to Brazil.

Pristipoma ramosum Poey, Memorias, 11, 186, 1860, Havana.**Genus 549. ORTHOPRISTIS Girard. *Pigfishes*.***Orthopristis* Girard, U. S. Mex. Bound. Survey, Zool., 15, 1859 (*duplex* = *chrysopterus*).**1736. *Orthopristis forbesi* Jordan & Starks.**

Albemarle Island, one of the Galapagos Archipelago.

Orthopristis forbesi Jordan & Starks, in Jordan & Evermann, Fishes North and Middle America, 1896, Albemarle Island.**1737. *Orthopristis reddingi* Jordan & Richardson.**

La Paz, Lower California.

Orthopristis reddingi Jordan & Richardson, in Jordan, Proc. Cal. Ac. Sci. 1895, 509, pl. 41, La Paz, Lower California.

- 1738. Orthopristis chalceus** (Günther).
Pacific Coast of tropical America, from Cape San Lucas to the Galapagos.
Pristipoma chalceum Günther, Proc. Zool. Soc. Lond. 1864, 146, Panama.
- 1739. Orthopristis chrysopterus** (Linnaeus). *Pigfish*; *Sailor's Choice*; *Hogfish*.
South Atlantic and Gulf coasts of the United States.
Perca chrysoptera Linnaeus, Syst. Nat., ed. XII, 485, 1766, Charleston, S. C.
- 1740. Orthopristis poeyi** Scudder.
West Indies; Havana.
Orthopristis poeyi Scudder, in Poey, Synopsis, 312, 1868, Havana.
- 1741. Orthopristis cantharinus** (Jenyns).
Galapagos Islands.
Pristipoma cantharinum Jenyns, Voyage Beagle, Fishes, 49, 1842, Galapagos Islands.
Subgenus *EVAPRISTIS* Jordan & Evermann.
Evapristis Jordan & Evermann, Fishes North and Middle America, 1896 (*lethopristis*).
- 1742. Orthopristis lethopristis** Jordan & Fesler.
Galapagos Archipelago.
Orthopristis lethopristis Jordan & Fesler, Proc. Ac. Nat. Sci. Phila. 1889, 36, Galapagos Islands.
Genus 550. **ISACIELLA** Jordan & Fesler.
Isaciella Jordan & Fesler, Review of the Sparoid Fishes of America and Europe, 497, 1893 (*brevipinnis*).
- 1743. Isaciella brevipinnis** (Steindachner).
Pacific Coast of Mexico.
Pristipoma brevipinne Steindachner, Ichth. Notizen, VIII, 10, 1869, Mazatlan.
Genus 551. **MICROLEPIDOTUS** Gill.
Microlepidotus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256 (*inornatus*).
- 1744. Microlepidotus inornatus** Gill. *Japaton*.
Gulf of California; La Paz and Mazatlan.
Microlepidotus inornatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas, Lower California.
Genus 552. **GENYATREMUS** Gill.
Genyatremus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256 (*cavifrons*).
- 1745. Genyatremus luteus** (Bloch).
Lesser Antilles to Brazil.
Lutianus luteus Bloch, Ichthyologia, pl. 247, 1793, Martinique; on a drawing by Plumier.

Family CLIII. SPARIDÆ. The Porgies.

- Genus 553. **OTRYNTER** Jordan & Evermann. *Deep-water Porgies*.
Otrynter Jordan & Evermann, Fishes N. and M. Amer., 1896 (*caprinus*).
- 1746. Otrynter caprinus** (Bean).
Deep waters off the west coast of Florida.
Stenotomus caprinus Bean, Proc. U. S. Nat. Mus. 1882, 426, Snapper Banks off Pensacola, Florida.
Genus 554. **STENOTOMUS** Gill.
Stenotomus Gill, Canadian Nat., 1865, 266 (*argyrops*).
- 1747. Stenotomus chrysops** (Linnaeus). *Common Scup*; *Porgy*; *Scuppaug*.
Atlantic Coast of United States, from Cape Cod to South Carolina.
Sparus chrysops Linnaeus, Syst. Nat., ed. XII, 471, 1766, Charleston, South Carolina.

- 1748. *Stenotomus aculeatus*** (Cuvier & Valenciennes). *Southern Porgy*.
South Atlantic and Gulf coasts of United States, Cape Hatteras to Texas.
Chrysophrys aculeata Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 137, 1830,
Charleston, South Carolina.
- Genus 555. **CALAMUS** Swainson.
Calamus Swainson, Nat. Hist. Fishes, etc., ii, 222, 1839 (*calamus*).
- Subgenus **CALAMUS** Swainson.
- 1749. *Calamus calamus*** (Cuvier & Valenciennes). *Saucer-eye Porgy*; *Pez de Pluma*.
West Indies, north to Florida Keys.
Pagellus calamus Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 206, pl. 152,
1830, Martinique; San Domingo.
- 1750. *Calamus proridens*** Jordan & Gilbert. *Little-head Porgy*; *Pez de Pluma*.
West Indies, north to the Florida Keys.
Calamus proridens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 150, Key
West, Florida.
- 1751. *Calamus pennatula*** Guichenot.
West Indies.
Calamus pennatula Guichenot, Revision des Pagels, 116, 1850, Martinique.
- 1752. *Calamus bajonado*** (Bloch & Schneider). *Jolt-head Porgy*; *Bajonado*.
West Indies, north to Florida Keys.
Sparus bajonado Bloch & Schneider, Syst. Ichth., 284, 1801; after Parra.
West Indies.
- Subgenus **GRAMMATEUS** Poey.
Grammateus Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 182 (*microps*).
- 1753. *Calamus brachysomus*** (Lockington). *Mojarra Garabata*.
Gulf of California and neighboring waters, locally abundant from Magda-
lena Bay to Mazatlan.
Sparus brachysomus Lockington, Proc. U. S. Nat. Mus. 1880, 284, Magdalena
Bay, Lower California.
- 1754. *Calamus leucosteus*** Jordan & Gilbert. *White-bone Porgy*.
South Atlantic Coast of United States, known only from the markets of
Charleston, South Carolina.
Calamus leucosteus Jordan & Gilbert, in Jordan, Cat. Fishes N. A., 91, 1885,
Charleston, South Carolina.
- 1755. *Calamus macrops*** Poey.
Cuba.
Calamus macrops Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 181, fig. 3, Havana.
- 1756. *Calamus taurinus*** (Jenyns).
Galapagos Islands to Peru.
Chrysophrys taurina Jenyns, Zool. Beagle, Fishes, 56, pl. 7, 12, 1842, Galapagos
Islands.
- 1757. *Calamus penna*** (Cuvier & Valenciennes). *Little-mouth Porgy*; *Sheepshead Porgy*.
Southern Florida to Brazil; known from Charlotte Harbor, Key West, Rio
Janeiro, St. Thomas, Havana, Camaru, and Rio Grande do Sul.
Pagellus penna Cuvier & Valenciennes, Hist. Nat. Poiss., vi, 209, 1830, Brazil.
- 1758. *Calamus arctifrons*** Goode & Bean. *Grass Porgy*; *Shad Porgy*.
Gulf of Mexico, from Pensacola to Key West.
Calamus arctifrons Goode & Bean, Proc. U. S. Nat. Mus. 1882, 425, Pensa-
cola, Florida.
- 1759. *Calamus medius*** (Poey).
West Indies; Havana.
Grammateus medius Poey, Ann. Lyc. Nat. Hist. N. Y. 1872, 183, pl. 7, fig. 4,
Havana.

Genus 556. **PAGRUS** Cuvier.

Pagrus Cuvier, Règne Animal, ed. 1, 272, 1817 (*argenteus* = *pagrus*).

1760. **Pagrus pagrus** (Linnaeus). *Red Porgy; Besugo; Pargo Colorado.*

Southern Europe and South Atlantic and Gulf coasts of the United States, south to Uruguay.

Sparus pagrus Linnaeus, Syst. Nat., ed. x, 279, 1758, southern Europe.

Genus 557. **LAGODON** Holbrook. *Chopa Spina.*

Lagodon Holbrook, Ichth. South Carolina, 59, 1860 (*rhomboides*).

1761. **Lagodon rhomboides** (Linnaeus). *Pinfish; Bream; Sailor's Choice; Chopa Spina.*

Atlantic and Gulf coasts of United States; Cape Cod to Cuba.

Sparus rhomboides Linnaeus, Syst. Nat., ed. XII, 470, 1766, Charleston, S. C.

Genus 558. **ARCHOSARGUS** Gill. *Sheepsheads.*

Archosargus Gill, Canadian Nat. 1865, 266 (*proboatocephalus*).

Subgenus **SALEMA** Jordan & Evermann.

Salema Jordan & Evermann, Fishes N. and M. Amer., 1896 (*unimaculatus*).

1762. **Archosargus unimaculatus** (Bloch). *Salema.*

West Indies, north to Key West, south to Rio Janeiro.

Perca unimaculata Bloch, Ichthyologia, pl. 308, 1792, Brazil; on a figure by Prince Maurice.

1763. **Archosargus pourtalesii** (Steindachner).

Galapagos Islands.

Sargus pourtalesii Steindachner, Fische Afrikas, 39, 1881, Galapagos Islands.

1764. **Archosargus tridens** (Poey).

Cuba.

Sargus tridens Poey, Enumeratio, 57, 1875, Cuba.

Subgenus **ARCHOSARGUS** GILL.1765. **Archosargus proboatocephalus** (Walbaum). *Sheepshead; Sargo Raitado.*

Atlantic and Gulf coasts of the United States; Cape Cod to Florida Keys and Texas.

Sparus proboatocephalus Walbaum, Artedi Pisc., 295, 1792, New York; based on Schöpfung.

1766. **Archosargus aries** (Cuvier & Valenciennes).

Honduras to Brazil; Rio Janeiro; Maracaibo; Belize.

Sargus aries Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 58, 1830, Rio Janeiro; Maracaibo.

Genus 559. **DIPLODUS** Rafinesque.

Diplodus Rafinesque, Indice d'Ittiologia Siciliana, 54, 1810 (*annularis*).

1767. **Diplodus holbrookii** (Bean).

South Atlantic and Gulf coasts of the United States; Cape Hatteras to Cedar Keys.

Sargus holbrookii Bean, Forest and Stream, June 13, 1878, Charleston, S. C.

1768. **Diplodus argenteus** (Cuvier & Valenciennes). *Sargo.*

West Indies; Florida and the Bermudas, south to Argentina.

Sargus argenteus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 60, 1830, Brazil

1769. **Diplodus sargus** (Linnaeus). *Sargo.*

Coast of southern Europe; Bermudas.

Sparus sargus Linnaeus, Syst. Nat., ed. x, 278, 1758, Mediterranean.

Family **CLIV. MÆNIDÆ**. The Picarels.Genus 560. **SPICARA** Rafinesque.

Spicara Rafinesque, Caratteri, etc., 51, 1810 (*flexuosa* = *smaris*).

1770. **Spicara martinica** (Cuvier & Valenciennes).

West Indies.

Smaris martinicus Cuv. & Val., Hist. Nat. Poiss., VI, 424, 1830, Martinique.

Genus 561. EMMELICHTHYS Richardson.*Emmelichthys* Richardson, Voy. Erebus and Terror, Fishes, 47, 1846 (*nitidus*).Subgenus **INERMIA** Poey.*Inermia* Poey, Memorias, II, 193, 1860 (*vittata*).**1771. Emmelichthys vittatus** (Poey). *Boga*.

Coasts of Cuba.

Inermia vittata Poey, Memorias, II, 193, 1860, Havana.**Family CLV. GERRIDÆ. The Mojarras.****Genus 562. EUCINOSTOMUS** Baird & Girard. *Mojarritas*.*Eucinostomus* Baird & Girard, Ninth Smithsonian. Rept., 1855, 20 (*argenteus*).**1772. Eucinostomus dowi** (Gill).

Pacific coasts of tropical America; Galapagos Islands; Panama.

Diapterus dowi Gill, Proc. Ac. Nat. Sci. Phila. 1863, 162, Panama.**1773. Eucinostomus pseudogula** Poey.

West Indies to Brazil; Bermudas; Cuba; St. Lucia; Bahia.

Eucinostomus pseudogula Poey, Enumeratio, 53, pl. I, 1875, Havana.**1774. Eucinostomus harengulus** Goode & Bean.

Atlantic Coast of tropical America; western Florida; Key West; Jamaica; San Domingo; Bahia.

Eucinostomus harengulus Goode & Bean, Proc. U. S. Nat. Mus. 1879, 132, west Florida.**1775. Eucinostomus californiensis** (Gill). *Mojarra Cantilóna*.

Pacific Coast of Mexico; Guaymas and Cape San Lucas to Panama.

Diapterus californiensis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 245, Cape San Lucas, Lower California.**1776. Eucinostomus gula** (Cuvier & Valenciennes). *Mojarra de Ley; Petite Gueule*.

Atlantic Coast of America from Carolina to Brazil, north to Long Island.

Gerres gula Cuv. & Val., Hist. Nat. Poiss., VI, 464, 1830, Martinique.**Genus 563. ULÆMA** Jordan & Evermann.*Ulæma* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 471 (*lefroyi*).**1777. Ulæma lefroyi** (Goode).

West Indies, on sandy shores north to Cedar Keys; Bermudas; Cuba; Key West.

Diapterus lefroyi Goode, Amer. Jour. Sci. Arts 1874, 123, Bermudas.**Genus 564. XYSTÆMA** Jordan & Evermann. *Mojarras Blancas*.*Xystæma* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 471 (*cinereus*).**1778. Xystæma cinereum** (Walbaum). *Mojarra de Casta; Mojarra Blanca; Broad Shad*.

Coasts of tropical America; West Indies, north to Florida; Havana; Jamaica; Martinique; Bahamas; Barbados; Florida Keys; Mazatlan; Rio Presidio; Guatemala; Panama; Chiapas.

Mugil cinereus Walbaum, Artdi Piscium, 228, 1792, Bahamas; after Catesby.**Genus 565. GERRES** Cuvier. *Mojarras*.*Gerres* Cuvier, Règne Animal, ed. 2, II, 104, 1829 (*lineatus*, etc.).Subgenus **MOHARRA** Poey.*Moharra* Poey, Enumeratio, 50, 1875 (*rhombea*).**1779. Gerres rhombeus** Cuvier & Valenciennes.

West Indies and Atlantic coast of tropical America; Jamaica; San Domingo; Martinique; Puerto Cabello; Havana; Aspinwall; Rio Magdalena; Santa Lucia; Bahia.

Gerres rhombeus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 459, 1830, Martinique; San Domingo.

Subgenus *DIAPTERUS* Ranzani.*Diapterus* Ranzani, Nov. Comment. Bonon., v, 1841, 340 (*auratus*).1780. *Gerres aureolus* Jordan & Gilbert.

Panama; only original type known.

Gerres aureolus Jordan & Gilbert, Bull. U. S. Fish Com., I, 1881 (1882), 328, Panama.1781. *Gerres peruvianus* Cuvier & Valenciennes. *Mojarra de las Aletas Amarillas*.

West coast of tropical America; Mazatlan; Salina Cruz; Chiapas; Panama; Peru.

Gerres peruvianus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 467, 1830, Payta, northern Peru.1782. *Gerres olisthostoma* Goode & Bean. *Irish Pompano; Mutton-fish*.

West Indies, north to southern Florida.

Gerres olisthostoma Goode & Bean, Proc. U. S. Nat. Mus. 1882, 423, Indian River, Florida.Subgenus *GERRES* Cuvier.1783. *Gerres brevimanus* Günther.

Pacific coast of tropical America; only original type known.

Gerres brevimanus Günther, Proc. Zool. Soc. Lond. 1864, 152, Chiapas.1784. *Gerres lineatus* (Humboldt). *Mojarra China*.

West coast of Mexico; Acapulco; Mazatlan; San Blas; Chiapas.

Smaris lineatus Humboldt, Observ. Zool., II, 185, pl. 46, 1807-1834, Acapulco.1785. *Gerres brasiliensis* Cuvier & Valenciennes. *Potao*.

Cuba to Bahia.

Gerres brasiliensis Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 458, 1830, Brazil; Porto Rico.1786. *Gerres embryx* Jordan & Starks.

Coast of South Carolina.

Gerres embryx Jordan & Starks, in Jordan & Evermann, Fishes North and Middle America, 1896, South Carolina.1787. *Gerres plumieri* Cuvier & Valenciennes. *Mojarra*.

Atlantic coast of tropical America and West Indies; Havana; Porto Rico; San Domingo; Jamaica; Pernambuco; Bahia; Aspinwall; Guatemala.

Gerres plumieri Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 452, 1830, Antilles; Porto Rico.1788. *Gerres mexicanus* Steindachner.

Rio Teapa, Mexico.

Gerres mexicanus Steindachner, Ueber eine Neue Gerres-Art aus Mexico, Verh. K. K. Geo. Wien., XIII, 383, 1863, Rio Teapa, Mexico.Family CLVI. *KYPHOSIDÆ*. The Rudder-Fishes.Genus 566. *GIRELLA* Gray.*Girella* Gray, Illustrations of Indian Zoology, about 1840 (*punctata*).1789. *Girella nigricans* (Ayres). *California Bluefish*.

Coast of southern California, from Monterey to Cape San Lucas.

Camarina nigricans Ayres, Proc. Cal. Ac. Sci. 1861, 81, fig. 22, California.Genus 567. *DOYDIXODON* Valenciennes.*Doydixodon* Valenciennes, Voyage de la Vénus, v, 318, 1855 (*freminvillei*).1790. *Doydixodon freminvillei* Valenciennes.

Galapagos Islands and coast of Peru.

Doydixodon freminvillei Valenciennes, Voyage Vénus, 323, pl. 5, 1855, Galapagos Islands.

- Genus 568. **HERMOSILLA** Jenkins & Evermann.
Hermosilla Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 144 (*azurea*).
1791. **Hermosilla azurea** Jenkins & Evermann.
 Gulf of California.
Hermosilla azurea Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 144, Guaymas, Mexico.
- Genus 569. **KYPHOSUS** Lacépède.
Kyphosus Lacépède, Hist. Nat. Poiss., III, 114, 1802 (*bigibbus* = *fuscus*).
1792. **Kyphosus analogus** (Gill). *Salema*.
 Pacific Coast of tropical America, Gulf of California to Panama.
Pimelepterus analogus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 245, Cape San Lucas.
1793. **Kyphosus incisor** (Cuvier & Valenciennes). *Chopa Amarilla*.
 Cuba.
Pimelepterus incisor Cuv. & Val., Hist. Nat. Poiss., VII, 266, 1831, Brazil.
1794. **Kyphosus elegans** (Peters). *Chopa*.
 Pacific Coast of tropical America, from Guaymas to Mazatlan.
Pimelepterus elegans Peters, Berlin. Monatsb., 707, 1869, Mazatlan, Mexico.
1795. **Kyphosus sectatrix** (Linnaeus). *Rudder-fish; Bermuda Chub; Chopa Blanca*.
 West Indies, ranging from Cape Cod to Brazil, crossing the ocean to the Canary Islands; accidental in the Mediterranean; one taken at Palermo.
Perca sectatrix Linnaeus, Syst. Nat., ed. XII, 486, 1766, "America."
1796. **Kyphosus lutescens** (Jordan & Gilbert).
 Revillagigedo Archipelago.
Pimelepterus lutescens Jordan & Gilbert, Proc. U. S. N. M. 1881, 229, Braithwaite Bay, Socorro Island.
- Genus 570. **SECTATOR** Jordan & Fesler.
Sectator Jordan & Fesler, Review Sparoid Fishes, 534, 1893 (*ocyurus*).
1797. **Sectator ocyurus** (Jordan & Gilbert).
 Panama.
Pimelepterus ocyurus Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 327, 328, Bay of Panama.
- Genus 571. **MEDIALUNA** Jordan & Fesler. *Medialunas*.
Medialuna Jordan & Fesler, Review Sparoid Fishes, 536, 1893 (*californiensis*).
1798. **Medialuna californiensis** (Steindachner). *Medialuna; Half-moon*.
 Coast of southern California, from Point Conception southward to Cerros Island.
Scorpius californiensis Steindachner, Ichth. Beitr., III, 19, 1875, San Diego.
- Family CLVII. SCIÆNIDÆ. The Croakers.**
- Subfamily OTOLITHINÆ.**
- Genus 572. **SERIPHUS** Ayres.
Seriphus Ayres, Proc. Cal. Ac. Sci., II, 1861, 80 (*politus*).
1799. **Seriphus politus** Ayres. *Queenfish; White Croaker*.
 Coast of southern California, from Point Conception to Cerros Island; common on sandy shores.
Seriphus politus Ayres, Proc. Cal. Ac. Sci., II, 1861, 80, no locality given.
- Genus 573. **ISOPISTHUS** Gill.
Isopisthus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*parvipinnis*).
1800. **Isopisthus remifer** Jordan & Gilbert.
 Panama, on sandy shores, rather common.
Isopisthus remifer Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 320, Panama.

1801. *Isopisthus parvipinnis* (Cuvier & Valenciennes).

Coast of Brazil, north to Cayenne.

Ancylodon parvipinnis Cuv. & Val., Hist. Nat. Poiss., v, 84, 1830, Cayenne.Genus 574. **CYNOSCIION** Gill. *Weakfishes*.*Cynoscion* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*regalis*).Subgenus **BUCCONE** Jordan & Evermann.*Buccone* Jordan & Evermann, new subgenus (*prædatorius*).1802. *Cynoscion prædatorius* (Jordan & Gilbert). *Bocone*.

Coast of Panama; scarce.

Cestrens prædatorius Jordan & Gilbert, in Jordan & Eigenmann, Review of the Scienidæ, 363, 1889, Panama.Subgenus **CYNOSCIION** Gill.1803. *Cynoscion acoupa* (Lacépède). *Acoupa*; *Toeroe*.

Atlantic Coast of South America, Brazil north to Venezuela; generally common.

Cheilodipterus acoupa Lacépède, Hist. Nat. Poiss., III, 546, 1802, Cayenne.1804. *Cynoscion squamipinnis* (Günther).

Pacific Coast of tropical America; known from a few specimens taken at La Union and Panama.

Otolithus squamipinnis Günther, Fishes Cent. Am., 387 and 429, 1869, Panama.1805. *Cynoscion othonopterus* Jordan & Gilbert.

Gulf of California.

Cynoscion othonopterum Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 274, Punta San Felipe, Mexico.1806. *Cynoscion obliquatus* (Valenciennes).

Martinique.

Otolithus obliquatus Valenciennes, in Sauvage, Bull. Soc. Philom. Paris, III, 209, 1879, Martinique.1807. *Cynoscion jamaicensis* (Vaillant & Bocourt).

Jamaica.

Otolithus jamaicensis Vaillant & Bocourt, Miss. Sci. au Mexique, Poissons, 156, 1874, Jamaica.1808. *Cynoscion nothus* (Holbrook). *Bastard Weakfish*.

South Atlantic and Gulf coasts of United States; rather rare at Charleston.

Otolithus nothus Holbrook, Ichth. S. C., 134, pl. 19, fig. 1, 1860, South Carolina.1809. *Cynoscion regalis* (Bloch & Schneider). *Common Weakfish*; *Squeteague*; "Sea Trout."

Atlantic and Gulf coasts of United States, Cape Cod southward to Mobile.

Johnius regalis Bloch & Schneider, Syst. Ichth., 75, 1801, New York.1810. *Cynoscion thalassinus* (Holbrook).

Pensacola; Pass Christian, Mississippi; Hampton Roads, Virginia.

Otolithus thalassinus Holbrook, Ichth. South Carolina, 132, pl. 18, fig. 2, 1859, Charleston, South Carolina.1811. *Cynoscion reticulatus* (Günther). *Corvina*.

Pacific Coast of tropical America, Mazatlan to Panama.

Otolithus reticulatus Günther, Proc. Zool. Soc. Lond. 1864, 149, San Jose de Guatemala; Chiapam.1812. *Cynoscion nebulosus* (Cuvier & Valenciennes). *Spotted Weakfish*; *Spotted Squeteague*; *Spotted Sea Trout*.

South Atlantic and Gulf Coast of the United States; New York to Texas; everywhere common on our southern coast; rare north of Virginia.

Otolithus nebulosus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 79, 1830, locality unknown.1813. *Cynoscion parvipinnis* Ayres. *California "Bluefish"*.

Coasts of Lower California; Santa Barbara Islands to Guaymas; common along the coasts of southern California, as far north as San Pedro.

Cynoscion parvipinnis Ayres, Proc. Cal. Ac. Sci. 1861, 156, coast of Lower California.

1814. *Cynoscion xanthulus* Jordan & Gilbert. *Corvina de las Alctas; Amarillas*.
Pacific Coast of Mexico; not rare about Mazatlan.
Cynoscion xanthulum Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 460,
Mazatlan.
1815. *Cynoscion albus* (Günther).
Pacific Coast of tropical America; not rare at Panama.
Otolithus albus Günther, Proc. Zool. Soc. Lond. 1864, 149, Chiapam; Panama.
1816. *Cynoscion macdonaldi* Gilbert. *Totuava*.
Gulf of California.
Cynoscion macdonaldi Gilbert, Proc. U. S. Nat. Mus. 1890, 64, head of Gulf
of California.
1817. *Cynoscion stolzmanni* (Steindachner).
Pacific Coast of tropical America from Panama to Peru.
Otolithus stolzmanni Steindachner, Neue u. Seltene Fische k. k. Zool. Mus.
Wien, 35, 1879, pl. 2, fig. 1, Tumbes, Peru.
- Subgenus **TRACTOSCION** GILL.
Atractoscion Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*æquidens*).
1818. *Cynoscion nobilis* (Ayres). "*White Sea-bass*" of California.
Coast of California, north to San Francisco, occasionally straying farther.
Johnius nobilis Ayres, Proc. Cal. Ac. Sci. 1860, 78, San Francisco.
1819. *Cynoscion phoxocephalus* Jordan & Gilbert.
Pacific Coast of tropical America; Panama.
Cynoscion phoxocephalum Jordan & Gilbert, Bull. U. S. Fish. Com. 1881, 318,
Panama.
1820. *Cynoscion leiarchus* (Cuvier & Valenciennes).
Coasts of Brazil and Guiana.
Otolithus leiarchus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 78, 1830,
Brazil; Cayenne.
1821. *Cynoscion virescens* (Cuvier & Valenciennes).
Coasts of Guiana and Brazil.
Otolithus virescens Cuvier & Valenciennes, Hist. Nat. Poiss., v, 72, 1830, Suri-
nam.
1822. *Cynoscion microlepidotus* (Cuvier & Valenciennes).
Coast of Brazil and Guiana.
Otolithus microlepidotus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 79, 1830,
Surinam.
- Genus 575. **SAGENICHTHYS** Berg.
Sagenichthys Berg, Ann. Mus. Nac. Buenos Aires, 52, 1895 (*ancyloдон*).
1823. *Sagenichthys ancyloдон* (Bloch & Schneider). *Pescadillo del Rey*.
Tropical America, on both coasts; Panama; Guiana; Brazil; Uruguay;
rather scarce.
Lonchurus ancyloдон Bloch & Schneider, Syst. Ich., 102, pl. 25, 1801, Surinam.
- Genus 576. **NEBRIS** Cuvier & Valenciennes.
Nebriis Cuvier & Valenciennes, Hist. Nat. Poiss., v, 149, 1830 (*microps*).
1824. *Nebriis microps* Cuvier & Valenciennes.
Atlantic Coast of northern South America; sandy shores.
Nebriis microps Cuvier & Valenciennes, Hist. Nat. Poiss., v, 149, pl. 112, 1830,
Surinam.
1825. *Nebriis zestus* Jordan & Starks.
Panama.
Nebriis zestus Jordan & Starks, in Jordan & Evermann, Fishes North and
Middle America, 1896, Panama.

Genus 577. PLAGIOSCION Gill.

Plagioscion Gill, Proc. Ac. Nat. Sci. Phila. 1861, 82 (a generic description only, no species or type being indicated).

1826. Plagioscion squamosissimus (Heckel).

Rivers of Guiana and Brazil; generally common southward.

Sciæna squamosissima Heckel, Annalen des Wiener Museum, II, 438, 1840, Amazon River.

1827. Plagioscion surinamensis (Bleeker).

Rivers of Guiana, Venezuela, and Colombia.

Pseudosciæna surinamensis Bleeker, Arch. Néerl. Sci. Exact. et Nat., VIII, 1873, 458, 18, Surinam.

1828. Plagioscion heterolepis (Bleeker).

Surinam.

Johnius heterolepis Bleeker, Arch. Néerl., VIII, 1873, with plate, Surinam.

Genus 578. LARIMUS Cuvier & Valenciennes.

Larimus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 145, 1830 (*breviceps*).

1829. Larimus argenteus (Gill).

Panama, locally common.

Amblyscion argenteus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 165, west coast Central America.

1830. Larimus effulgens Gilbert.

Pacific Coast of Mexico, Sonora to Panama.

Larimus effulgens Gilbert ms., 1896, San Juan Lagoon, Sonora.

1831. Larimus acclivis Jordan & Bristol.

West coast of Mexico and Central America, from Sonora to Panama.

Larimus acclivis Jordan & Bristol, Proc. U. S. Nat. Mus. 1896, San Juan Lagoon, Sonora.

1832. Larimus breviceps Cuvier & Valenciennes.

West Indies, south to Brazil.

Larimus breviceps Cuvier & Valenciennes, Hist. Nat. Poiss., v, 146, pl. 140, 1830, Brazil; San Domingo.

1833. Larimus pacificus Jordan & Bollman.

Pacific Ocean, off coast of Colombia.

Larimus pacificus Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 161, Albatross Station 2802, 8° 38' N., 79° 31' 30" W., between Galapagos Islands and Panama.

1834. Larimus fasciatus Holbrook.

South Atlantic Coast of the United States, from Chesapeake Bay to Galveston, Texas; not common.

Larimus fasciatus Holbrook, Ichth. South Carolina, 153, pl. 22, fig. 1, 1860, Charleston, S. C.

Genus 579. ODONTOSCION Gill.

Odontoscion Gill, Proc. Ac. Nat. Sci. Phila. 1862, 18 (*dentex*).

1835. Odontoscion dentex (Cuvier & Valenciennes). Corvina.

West Indies.

Corvina dentex Cuvier & Valenciennes, Hist. Nat. Poiss., v, 139, pl. 109, 1830, San Domingo.

1836. Odontoscion xanthops Gilbert.

Panama.

Odontoscion xanthops Gilbert ms., 1896, Panama.

Genus 580. CORVULA Jordan & Eigenmann.

Corvula Jordan & Eigenmann, Review of Sciænidæ Europe and America, in Report U. S. Fish Com. 1886 (1889), 377 (*batabana*).

1837. Corvula macrops (Steindachner). Facuocua.

Pacific Coast of tropical America, Mazatlan to Panama.

Corvina macrops Steindachner, Ichth. Beitr., III, 24, fig. 2, 1875, Panama.

1838. *Corvula sialis* Jordan & Eigenmann.
Florida Keys.
Corvula sialis Jordan & Eigenmann, Report U. S. Fish Com. 1886 (1889), 379, Key West.
1839. *Corvula subæqualis* (Poey).
West Indies.
Corvina subæqualis Poey, Ann. Lyc. Nat. Hist. New York 1875, 58, Cuba.
1840. *Corvula sanctæ-luciæ* Jordan.
West Indies.
Corvula sanctæ-luciæ Jordan, Proc. U. S. Nat. Mus. 1889, 649, Port Castries, St. Lucia.
1841. *Corvula batabana* (Poey).
Cuba and Puerto Rico.
Johnius batabanus Poey, Memorias, II, 184, 1860, Batabano, south coast of Cuba.
- Genus 581. **ELATTARCHUS** Jordan & Evermann.
Elattarchus Jordan & Evermann, Fishes N. and M. Am., 1896 (*archidium*).
1842. *Elattarchus archidium* (Jordan & Gilbert).
Panama.
Odontoscion archidium Jordan & Gilbert, Bull. U. S. F. C. 1881, 317, Panama.
- Genus 582. **BAIRDIELLA** Gill. *Mademoiselles*.
Bairdiella Gill, Cat. Fish. East Coast N. A., 33, 1861 (*argyroleuca* = *chrysuræ*).
1843. *Bairdiella chrysuræ* (Lacépède). *Mademoiselle*; *Yellow-tail*.
South Atlantic and Gulf coasts of United States, north to New York; very abundant on our sandy shores from Long Island to Texas.
Dipterodon chrysurus Lacépède, Hist. Nat. Poiss., III, 64, 1802, South Carolina; after Linnaeus.
1844. *Bairdiella ensifera* (Jordan & Gilbert).
Panama.
Sciæna ensifera Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 313, Bay of Panama; Punta Arenas.
1845. *Bairdiella icistia* (Jordan & Gilbert). *Corbineta*.
Pacific Coast of Mexico, rather common about Mazatlan.
Sciæna icistia Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 356, Mazatlan.
1846. *Bairdiella ronchus* (Cuvier & Valenciennes). *Ronco*; *Corvina*.
Atlantic coasts of tropical America, generally common in the West Indies and along the coast of Brazil.
Corvina ronchus Cuvier & Valenciennes, Hist. Nat. Poiss., V, 107, 1830, Maracaibo; Surinam.
1847. *Bairdiella armata* Gill.
Both coasts of tropical America; not uncommon on the Pacific Coast about Panama, and equally abundant on the Atlantic Coast.
Bairdiella armata Gill, Proc. Ac. Nat. Sci. Phila. 1863, 164, west coast of Central America.
1848. *Bairdiella aluta* (Jordan & Gilbert).
Pacific Coast of Central America.
Sciæna aluta Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 232, La Union, San Salvador.
1849. *Bairdiella chrysoleuca* (Günther).
Panama.
Corvina chrysoleuca Günther, Fish. Central America, 387 and 427, plate 67, fig. 1, 1869, Panama.

Genus 583. **STELLIFERUS** Stark.

Stelliferus Stark, Elements Nat. Hist., 1, 459, 1828 (*stellifer*); *vide* Gill.

1850. **Stelliferus oscitans** (Jordan & Gilbert).

Panama.

Sciæna oscitans Jordan & Gilbert, Bull. U. S. F. C. 1881, 312, Bay of Panama.

1851. **Stelliferus furthi** (Steindachner).

Panama.

Corvina (Homoprion) furthi Steindachner, Ichth. Beitr., 111, 26, fig. 3, 1875, Panama.

1852. **Stelliferus illecebrosus** Gilbert.

Panama.

Stelliferus illecebrosus Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1853. **Stelliferus stellifer** (Bloch).

Coasts of Guiana and Brazil.

Bodianus stellifer Bloch, Ichthyologia, pl. 231, 1790, "Cape of Good Hope."

1854. **Stelliferus lanceolatus** (Holbrook).

South Atlantic and Gulf coasts of United States, Charleston to Texas.

Homoprion lanceolatus Holbrook, Ichth. South Carolina, ed. 1, 168, pl. 23, 1856, Port Royal Sound, South Carolina.

1855. **Stelliferus ericymba** (Jordan & Gilbert).

Panama.

Sciæna ericymba Jordan & Gilbert, Bull. U. S. F. C. 1881, 311, Bay of Panama.

1856. **Stelliferus microps** (Steindachner).

Coast of Brazil and Guiana.

Corvina microps Steindachner, Ichth. Notizen, 1, 6, pl. 2, fig. 1, 1864, Guiana.

1857. **Stelliferus zestocarus** Gilbert.

Panama.

Stelliferus zestocarus Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

Genus 584. **OPHIOSCION** Gill.

Ophioscion Gill, Proc. Ac. Nat. Sci. Phila. 1863, 164 (*typicus*).

1858. **Ophioscion adustus** Jordan & Evermann.

West Indies to coast of Brazil.

Ophioscion adustus Jordan & Evermann, Fishes North and Middle America, 1896, Pernambuco; Jérémie; Hayti; Brazil.

1859. **Ophioscion typicus** Gill.

Panama.

Ophioscion typicus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 165, west coast Central America.

1860. **Ophioscion strabo** Gilbert.

Panama.

Ophioscion strabo Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1861. **Ophioscion similus** Gilbert.

Panama.

Ophioscion similus Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1862. **Ophioscion imiceps** (Jordan & Gilbert).

Panama.

Sciæna imiceps Jordan & Gilbert, Bull. U. S. F. C. 1881, 309, Bay of Panama.

1863. **Ophioscion scierus** (Jordan & Gilbert).

Pacific Coast of tropical America, from Mazatlan to Panama.

Sciæna sciera Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 480, Panama

1864. **Ophioscion vermicularis** (Günther).

Panama.

Corvina vermicularis Günther, Fish. Central America, 387 and 427, pl. 67, fig. 2, 1869, Panama.

Genus 585. **SCIÆNOPS** Gill. *Red Drums*.

Sciaenops Gill, Proc. Ac. Nat. Sci. Phila. 1863, 30 (*ocellatus*).

1865. **Sciaenops ocellatus** (Linnaeus). *Red Drum; Channel Bass; "Redfish"; Pescado Colorado; Bull Redfish.*

South Atlantic and Gulf coasts of the United States, New York to Texas.
Perca ocellata Linnaeus, Syst. Nat., ed. XII, 483, 1766, South Carolina.

Genus 586. **SCIÆNA** (Artedi) Linnaeus. *Black Drums*.

Sciana, part, Artedi, Genera Piscium, 1738.

Subgenus **CALLAUS** Jordan.

Callaus Jordan, Review of Sciaenidae, 401, 1889 (*deliciosa*).

1866. **Sciaena deliciosa** (Tschudi).

Pacific Coast of South America, from Panama to Peru.
Corvina deliciosa Tschudi, Fauna Peruana Ichthyol., 8, 1845, Peru.

Subgenus **CHEILO TREMA** Tschudi.

Cheilotrema Tschudi, Fauna Peruana, Fische, 13, 1845 (*fasciatum*).

1867. **Sciaena saturna** (Girard). *Red Roncador; Black Croaker.*

Coast of southern California, from Santa Barbara to Cerros Island.
Ambiodon saturnus Girard, U. S. Pac. R. R. Survey, 98, 1858, San Diego, Cal.

Genus 587. **RONCADOR** Jordan & Gilbert.

Roncador Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 28 (*stearnsi*).

1868. **Roncador stearnsi** (Steindachner). *Roncador.*

Coast of southern California, north to Santa Barbara.
Corvina stearnsi Steindachner, Ichth. Beitr., III, 22, 1875, San Diego.

Genus 588. **LEIOSTOMUS** Lacépède. *Goodies.*

Leiostomus Lacépède, Hist. Nat. Poiss., IV, 439, 1802 (*xanthurus*).

1869. **Leiostomus xanthurus** Lacépède. *Spot; Goody; Post-croaker; Oldwife; Lafayette.*

South Atlantic and Gulf coasts of United States; Cape Cod to Texas;
once doubtfully recorded from Martinique.
Leiostomus xanthurus Lacépède, Hist. Nat. Poiss., IV, 439, pl. 10, fig. 1, 1802,
Carolina.

Genus 589. **PACHYPOPS** Gill.

Pachypops Gill, Proc. Ac. Nat. Sci. Phila. 1861, 87 (*trifilis*).

1870. **Pachypops furcraeus** (Lacépède).

Rivers and estuaries of Guiana.
Perca furcraea Lacépède, Hist. Nat. Poiss., IV, 398, 424, 1802, Surinam.

Genus 590. **GENYONEMUS** Gill.

Genyonemus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 87 (*lineatus*).

1871. **Genyonemus lineatus** (Ayres). *Little Roncador; Kingfish; Croaker.*

Coast of southern California, San Francisco to Cerros Island.
Leiostomus lineatus Ayres, Proc. Cal. Ac. Sci. 1855, 25, San Francisco.

Genus 591. **MICROPOGON** Cuvier & Valenciennes. *Croakers.*

Micropogon Cuvier & Valenciennes, Hist. Nat. Poiss., V, 213, 1830 (*lineatus* =
undulatus).

1872. **Micropogon undulatus** (Linnaeus). *Croaker; Roncadina; Corvina.*

South Atlantic and Gulf coasts of United States; Cape Cod to Texas.
Perca undulata Linnaeus, Syst. Nat., ed. XII, 483, 1766, South Carolina.

1873. **Micropogon furnieri** (Desmarest). *Ferrugato.*

West Indies and coasts of South America.
Umbrina furnieri Desmarest, Première Décade Ichthyol., 22, pl. 2, fig. 3, 182,
Havana.

1874. *Micropogon megalops* Gilbert.

Gulf of California.

Micropogon megalops Gilbert, Proc. U. S. Nat. Mus. 1890, 64, Gulf of California, in 14 fathoms, at Albatross Station 3021.**1875. *Micropogon ectenes* Jordan & Gilbert. *Ferrugato*.**

Pacific Coast of Mexico; Mazatlan.

Micropogon ectenes Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 355, Mazatlan.**1876. *Micropogon altipinnis* Günther.**

Panama.

Micropogon altipinnis Günther, Proc. Zool. Soc. Lond. 1864, 149, San Jose; Panama; Chiapam.**Genus 592. *UMBRINA* Cuvier.***Umbrina* Cuvier, Règne Animal, ed. I, II, 297, 1817 (*cirrosa*; *Sciæna* L. being restricted to *Sciæna umbra*, a Linnæan, and to *Sciæna aquila*, a non-Linnæan species).**1877. *Umbrina broussonnetii* Cuvier & Valenciennes.**

West Indies; Florida to Brazil.

Umbrina broussonnetii Cuv. & Val., Hist. Nat. Poiss., v, 187, 1830, Jamaica.**1878. *Umbrina coroides* Cuvier & Valenciennes.**

Coast of Brazil.

Umbrina coroides Cuvier & Valenciennes, Hist. Nat. Poiss, v, 187, 1830, Brazil.**1879. *Umbrina roncador* Jordan & Gilbert. *Yellow-finned Roncador*; *Yellow-tail Croaker*.**

Coast of southern California, from Point Conception to Guaymas.

Umbrina roncador Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 277, Pequena Bay, west coast Lower California.**1880. *Umbrina xanti* Gill.**

Pacific Coast of tropical America, Cape San Lucas to Panama.

Umbrina xanti Gill, Proc. Ac. Nat. Sci. Phila. 1862, 256, Cape San Lucas.**1881. *Umbrina sinaloæ* Seefield.**

Pacific Coast of Mexico; Mazatlan.

Umbrina sinaloæ Seefield, Proc. Cal. Ac. Sci. 1896, Mazatlan.**1882. *Umbrina galapagorum* Steindachner.**

Galapagos Archipelago.

Umbrina galapagorum Steindachner, Ichth. Beitr., VII, 20, 1878, James Island, Galapagos.**1883. *Umbrina dorsalis* Gill.**

Pacific Coast of Mexico.

Umbrina dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 257, Cape San Lucas.**Genus 593. *MENTICIRRHUS* Gill. *Kingfishes*.***Menticirrhus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 86 (*alburnus*).**1884. *Menticirrhus simus* Jordan & Eigenmann.**

Pacific Coast of tropical America; Mazatlan to Panama.

Menticirrhus simus Jordan & Eigenmann, Review Sciænidæ, 427, 1889, Mazatlan and Panama.**1885. *Menticirrhus nasus* (Günther).**

Panama.

Umbrina nasus Günther, Fishes Central America, 387 and 426, 1860, Panama.**1886. *Menticirrhus panamensis* (Steindachner).**

Pacific Coast of tropical America; Mazatlan to Panama.

Umbrina panamensis Steindachner, Ichth. Beitr., IV, 9, 1875, Panama.**1887. *Menticirrhus martinicensis* (Cuvier & Valenciennes).**

West Indies to Patagonia.

Umbrina martinicensis Cuvier & Valenciennes, Hist. Nat. Poiss., v, 186, 1830, Martinique.

- 1888. *Menticirrhus americanus* (Linnaeus).** *Carolina Whiting; Sand Whiting.*
South Atlantic and Gulf coasts of United States; Chesapeake Bay to Texas.
Cyprinus americanus Linnaeus, Syst. Nat., ed. x, 321, 1758, Carolina; based on *Whiting* of Catesby; (not *Cyprinus americanus* of 12th edition of *Systema Naturæ*, which is a cyprinoid, *Abramis bosci* C. & V.).
- 1889. *Menticirrhus saxatilis* (Bloch & Schneider).** *Kingfish; Sea Mink; Northern Whiting.*
Atlantic and Gulf coasts of the United States; Cape Ann to Key West and Pensacola; most common northward.
Johnius saxatilis Bloch & Schneider, Syst. Ichth., 75, 1801, New York.
- 1890. *Menticirrhus undulatus* (Girard).** *California Whiting; Sand Sucker.*
Southern California, north to Santa Barbara.
Umbrina undulata Girard, Proc. Ac. Nat. Sci. Phila. 1854, 148, San Diego, Cal.
Subgenus **UMBRULA** Jordan & Eigenmann.
Umbrula Jordan & Eigenmann, Review Sciencidæ, 424, 1889 (*littoralis*).
- 1891. *Menticirrhus elongatus* (Günther).** *Ferrugato.*
Pacific Coast of tropical America; Mazatlan to Panama.
Umbrina elongata Günther, Proc. Zool. Soc. Lond. 1861, 148, Chiapas.
- 1892. *Menticirrhus littoralis* (Holbrook).** *Surf Whiting; Silver Whiting.*
South Atlantic and Gulf coasts of United States; North Carolina to Texas.
Umbrina littoralis Holbrook, Ichth. South Carolina, ed. 1, 142, pl. 20, fig. 1, 1856, South Carolina.
- Genus 594. **PARALONCHURUS** Bocourt.
Paralonchurus Bocourt, Nouv. Arch. Mus., iv, 21, 1869 (*petersi*).
- Subgenus **POLYCLEMUS** Berg. *Corvalos.*
Polyclemus Berg, Ann. Mus. Nac. Buenos Aires, 1895, 54 (*dumerili*).
- 1893. *Paralonchurus dumerili* (Bocourt).**
Panama.
Polycirrhus dumerili Bocourt, Nouv. Arch. Mus. d'Hist. Natur., iv, 22, 1868, La Union.
Subgenus **ZONOSCION** Jordan & Evermann.
Zonoscion Jordan & Evermann, new subgenus (*rathbuni*).
- 1894. *Paralonchurus rathbuni* (Jordan & Bollman).**
Panama.
Polycirrhus rathbuni Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 162, Panama.
Subgenus **ZACLEMUS** Gilbert.
Zaclemus Gilbert, Proc. Cal. Ac. Sci. 1896 (*goodei*).
- 1895. *Paralonchurus goodei* Gilbert.**
Panama.
Paralonchurus goodei Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.
Subgenus **PARALONCHURUS** Bocourt.
- 1896. *Paralonchurus petersi* Bocourt.**
Coast of Central America, rare at Panama.
Paralonchurus petersi Bocourt, Nouv. Archives du Muséum, iv, 1869, 22, La Union, San Salvador.
Genus 595. **LONCHIURUS** Bloch.
Lonchiurus Bloch, Ichthyologiae, pl. 360, 1793 (*barbatus* = *lanceolatus*).
- 1897. *Lonchifurus lanceolatus* (Bloch).**
West Indies to Guiana.
Perca lanceolata Bloch, Nov. Act. Sc. Copenh., III, 383, 1788, India.

Genus 596. **POGONIAS** Lacépède. *Sea Drums*.

Pogonias Lacépède, Hist. Nat. Poiss., III, 138, 1802 (*fasciatus* = *cromis*).

1898. **Pogonias cromis** (Linnæus). *Drum*.

Atlantic coasts of America; Long Island to mouth of Rio Grande.
Labrus cromis Linnæus, Syst. Nat., ed. XII, 479, 1766, Carolina.

1899. **Pogonias courbina** (Lacépède).

Guiana to Uruguay, rather common in Brazil.

Pogonathus courbina Lacépède, Hist. Nat. Poiss., v, 121, 1803, Rio de la Plata.

Genus 597. **APLODINOTUS** Rafinesque. *River Drums*.

Aplodinotus Rafinesque, Jour. de Phys. 1819, 418 (*grunniens*).

1900. **Aplodinotus grunniens** Rafinesque. *Fresh-water Drum; Gaspergou; Lake Sheepshead; Thunder-pumper; Croaker; Bubbler; White Perch*.

Great Lakes to Texas; abundant in all lakes and large streams west of the Alleghanies and east of the Great Plains.

Aplodinotus grunniens Rafinesque, Jour. de Phys. 1819, 88, Ohio River.

Genus 598. **EQUES** Bloch. *Ribbon-fishes*.

Eques Bloch, Syst. Ichthyologie, 1793 (*americanus* = *lanccolatus*).

Subgenus **PARQUES** Gill.

Pareques Gill, in Goode, Bull. U. S. Nat. Mus., v, 50, 1875 (*acuminatus*).

1901. **Eques viola** Gilbert.

Panama.

Eques viola Gilbert, Proc. Cal. Ac. Sci. 1896, Panama.

1902. **Eques acuminatus** (Bloch & Schneider).

West Indies; South Carolina to Brazil.

Grammistes acuminatus Bloch & Schneider, Syst. Ichth., 184, 1801, no locality; after Seba.

1902a. **Eques acuminatus umbrosus** Jordan & Eigenmann.

Southeast coast of the United States, Charleston to Pensacola.

Eques acuminatus umbrosus Jordan & Eigenmann, Review Sciænidæ, 440, 1889, Charleston and Pensacola.

1903. **Eques punctatus** Bloch & Schneider. *Serrana; Hispana*.

West Indies.

Eques punctatus Bloch & Schneider, Syst. Ichth., 106, 1801, Cuba; based on Parra, 2, pl. 2, fig. 2.

1904. **Eques pulcher** Steindachner.

Barbados.

Eques pulcher Steindachner, Ichth. Notizen, VI, 43, 1867, Barbados.

1905. **Eques lanceolatus** (Linnæus). *Ribbon-fish; Guapena; Serrana*.

West Indies, ranging northward to Pensacola.

Chatodon lanceolatus Linnæus, Syst. Naturæ, ed. x, 277, 1758, "Caribes Islands"; based on Edwards, pl. 210.

Group **CIRRHITOIDEI**. The Cirrhitoid Fishes.

Family **CLVIII. CIRRHITIDÆ**. The Cirrhitoids.

Genus 599. **CIRRHITES** Lacépède.

Cirrhitès Lacépède, Hist. Nat. Poiss., v, 3, 1803 (*maculatus*).

1906. **Cirrhitès rivulatus** Valenciennes.

Cape San Lucas to the Galapagos Islands.

Cirrhitès rivulatus Valenciennes, Voyage Vénus, Poiss., 309, pl. 3, fig. 1, 1855, Galapagos Islands.

1907. **Cirrhitès betaurus** Gill.

Cape San Lucas and Mazatlan.

Cirrhitès betaurus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 259, Cape San Lucas.

Suborder **HOLCONOTI**.Family **CLIX. EMBIOTOCIDÆ. The Surf-Fishes.**Genus 600. **HYSTEROCARPUS** Gibbons.

Hysterocharpus Gibbons, Daily Placer Times and Transcript, May 18, 1854, and in Proc. Ac. Nat. Sci. Phila., 1854, 124 (*traski*).

1908. **Hysterocharpus traski** Gibbons.

Rivers of central California, chiefly in the Sacramento Valley from Lake County to Santa Clara County.

Hysterocharpus traski Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 105, lower Sacramento River.

Genus 601. **ABEONA** Girard.

Abeona Girard, Proc. Ac. Nat. Sci. Phila. 1855, 322 (*troubridgii* = *minimus*).

1909. **Abeona minima** (Gibbons).

San Francisco to San Diego.

Cymatogaster minimus Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 125, San Francisco Bay.

1910. **Abeona aurora** Jordan & Gilbert.

Monterey Bay, California.

Abeona aurora Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 299, Monterey Bay, California.

Genus 602. **CYMATOGASTER** Gibbons.

Cymatogaster Gibbons, Daily Placer Times and Transcript, May 18, 1854 (*aggregatus* and *minimus*).

1911. **Cymatogaster aggregatus** Gibbons. *Sparada*.

Pacific Coast, from Port Wrangel, Alaska, to Todos Santos Bay.

Cymatogaster aggregatus Gibbons, Daily Placer Times and Transcript, May 18, 1854, San Francisco.

Genus 603. **BRACHYISTIUS** Gill.

Brachyistius Gill, Proc. Ac. Nat. Sci. Phila. 1862, 275 (*frenatus*).

1912. **Brachyistius frenatus** Gill.

Vancouver Island to San Diego.

Brachyistius frenatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 275, California coast.

Genus 604. **ZALEMBIUS** Jordan & Evermann.

Zalembius Jordan & Evermann, Fishes N. and M. Amer., 1896 (*rosaceus*).

1913. **Zalembius rosaceus** (Jordan & Gilbert).

San Francisco, California.

Cymatogaster rosaceus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 303, off San Francisco.

Genus 605. **HYPOCRITICHTHYS** Gill.

Hypocritichthys Gill, Proc. Ac. Nat. Sci. Phila. 1862, 14, 275 (*analis*).

1914. **Hypocritichthys analis** (Alexander Agassiz).

San Francisco to Point Conception.

Hyperprosopon analis Alexander Agassiz, Proc. Bost. Soc. Nat. Hist. 1861, 133, San Francisco.

Genus 606. **HYPERPROSOPON** Gibbons.

Hyperprosopon Gibbons, Daily Placer Times and Transcript, May 18, 1854 (*argenteus*).

1915. **Hyperprosopon argenteus** Gibbons. *Walleye Surf-fish; White Perch*.

Coast of California, Cape Disappointment to Todos Santos Bay.

Hyperprosopon argenteum Gibbons, Proc. Ac. Nat. Sci. Phila. 1854, 105, San Francisco.

1916. *Hyperprosopon agassizii* Gill.

Coast of California, San Francisco to Santa Barbara; most common along San Luis Obispo County.

Hyperprosopon agassizii Gill, Proc. Ac. Nat. Sci. Phila. 1862, 276, California.

Genus 607. *HOLCONOTUS* Agassiz.

Holoconotus Agassiz, Am. Jour. Sci. Arts, xvii, May, 1854, 367 (*rhodoterus*).

1917. *Holconotus rhodoterus* Agassiz.

Coast of California, San Francisco to San Diego.

Holconotus rhodoterus Agassiz, Am. Jour. Sci. Arts, May, 1854, 368, San Francisco.

Genus 608. *AMPHISTICHUS* Agassiz.

Amphistichus Agassiz, Am. Jour. Sci. Arts, May, 1854, 367 (*argenteus*).

1918. *Amphistichus argenteus* Agassiz. Surf-fish.

Pacific Coast from Cape Flattery to San Diego.

Amphistichus argenteus Agassiz, Am. Jour. Sci. Arts, May, 1854, 367, San Francisco.

Genus 609. *EMBIOTOCA* Agassiz.

Embiotoca Agassiz, Am. Jour. Sci. Arts, xvi, November, 1853, 386 (*jacksoni*).

1919. *Embiotoca jacksoni* Agassiz. Common Surf-fish; Black Perch.

Vancouver Island to San Diego.

Embiotoca jacksoni Agassiz, Am. Jour. Sci. Arts, 1853, 387, and 1854, 366, San Francisco.

Genus 610. *TÆNIOTOCA* Alexander Agassiz.

Tæniotoca A. Agassiz, Proc. Bost. Soc. Nat. Hist., vii, 1861, 133 (*lateralis*).

1920. *Tæniotoca lateralis* (Agassiz). Blue Perch; Striped Surf-fish.

Vancouver Island to San Diego.

Embiotoca lateralis Agassiz, Am. Jour. Sci. Arts, May, 1854, 366, San Francisco.

Genus 611. *PHANERODON* Girard.

Phaneronodon Girard, Proc. Ac. Nat. Sci. Phila. 1854, 153 (*furcatus*).

1921. *Phaneronodon furcatus* Girard. White Surf-fish.

Pacific Coast, from Vancouver Island to San Diego.

Phaneronodon furcatus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 163, Presidio and Tomales Bay, California.

1922. *Phaneronodon atripes* (Jordan & Gilbert).

Monterey Bay and banks off San Diego.

Ditrema atripes Jordan & Gilbert, Proc. U. S. N. M. 1880, 320, Monterey Bay.

Genus 612. *RHACOCHELUS* Agassiz.

Rhacochilus Agassiz, Am. Jour. Sci. Arts, May, 1854, 367 (*toxotes*).

1923. *Rhacochilus toxotes* Agassiz. Alfione.

Coast of California, from San Francisco to San Diego.

Rhacochilus toxotes Agassiz, Am. Jour. Sci. Arts, May, 1854, 367, San Francisco.

Genus 613. *HYP SURUS* Alexander Agassiz.

Hypsurus Alexander Agassiz, Proc. Bost. Soc. Nat. Hist. 1861, 133 (*caryi*).

1924. *Hypsurus caryi* (Agassiz). Bugara.

Coast of California; very common from Cape Mendocino to San Diego.

Embiotoca caryi Agassiz, Am. Jour. Sci. Arts 1853, 389, and 1854, 366, San Francisco.

Genus 614. *DAMALICHTHYS* Girard.

Damalichthys Girard, Proc. Ac. Nat. Sci. Phila. 1855, 321 (*vacca*).

1925. *Damalichthys argyrosomus* (Girard). White Perch; Porgee.

Pacific Coast from Vancouver Island to San Diego.

Embiotoca argyrosoma Girard, Proc. Ac. Nat. Sci. Phila. 1855, 136, San Francisco.

Suborder CHROMIDES.

Family CLX. CICHLIDÆ. The Cichlids.

Genus 615. PETENIA Günther.

Petenia Günther, Cat., IV, 301, 1862 (*splendida*).

1926. *Petenia splendida* Günther.

Guatemala.

Petenia splendida Günther, Cat., IV, 301, 1862, Lago Peten, Guatemala.

Genus 616. ÆQUIDENS Eigenmann & Bray.

Æquidens Eigenmann & Bray, Ann. N. Y. Ac. Sci. 1894, 616 (*tetramerus*).

1927. *Æquidens cœruleopunctatus* (Kner & Steindachner).

East slope of the Isthmus of Panama.

Acara cœruleopunctata Kner & Steindachner, Sitz. Bayer. Akad. 1863; † Rio Chagres, Panama.

Genus 617. CICHLASOMA Swainson.

Cichlasoma Swainson, Nat. Hist. Class. Fishes, etc., II, 230, 1839 (*punctatus* = *bimaculatus*).

Subgenus CICHLASOMA Swainson.

1928. *Cichlasoma rectangulare* (Steindachner).

Mexico.

Acara rectangularis Steindachner, Chromiden Mejicos, I, 1864, Mexico.

1929. *Cichlasoma bartoni* (Bean).

Hautzeca Potosina, in San Luis Potosi, Mexico.

Acara bartoni T. H. Bean, Proc. U. S. Nat. Mus. 1892, 286, Hautzeca Potosina, Mexico.

1930. *Cichlasoma godmanni* (Günther).

Guatemala.

Heros godmanni Günther, Cat., IV, 296, 1862, River of Cahabon, Guatemala.

1931. *Cichlasoma sieboldii* (Kner & Steindachner).

New Grenada, and from the west slope of Panama.

Heros sieboldii Kner & Steindachner, Abhandl. Bayer. Akad. Wiss. x, 1864, 13, pl. 2, fig. 2, New Grenada.

1932. *Cichlasoma intermedium* (Günther).

Guatemala.

Heros intermedius Günther, Cat., IV, 298, 1862, Lake Peten, Guatemala.

1933. *Cichlasoma anguliferum* (Günther).

Guatemala.

Heros angulifer Günther, Cat., IV, 298, 1862, Rio de Santa Yzabal, Guatemala.

1934. *Cichlasoma fenestratum* (Günther).

Rivers of southern Mexico.

Chromis fenestrata Günther, Proc. Zool. Soc. Lond. 1860, 318, Rio de la Lana, Mexico.

1935. *Cichlasoma montezuma* (Heckel).

Mexico.

Heros montezuma Heckel, Brazil. Fluss-Fische, 383, 1840, Mexico.

1936. *Cichlasoma macracanthum* (Günther).

Chiapam and Huamuchal.

Heros macracanthus Günther, Proc. Zool. Soc. Lond. 1864, 153, Chiapam and Huamuchal.

1937. *Cichlasoma parma* (Günther).

Mexico and Guatemala.

Heros parma Günther, Cat., IV, 285, 1862, Mexico and Guatemala.

1938. *Cichlasoma margaritiferum* (Günther).
Guatemala.
Heros margaritifer Günther, Cat., iv, 287, 1862, Lake Peten, Guatemala.
1939. *Cichlasoma spilurum* (Günther).
Rio Motagua, Guatemala.
Heros spilurus Günther, Cat., iv, 289, 1862, Rio Motagua.
1940. *Cichlasoma longimanus* (Günther).
Lake Nicaragua.
Heros longimanus Günther, Fish. Centr. Amer., 453, 1869, Lake Nicaragua.
1941. *Cichlasoma bifasciatum* (Steindachner).
Mexico.
Heros bifasciatus Steindachner, Chromiden Mejicos, 4, 1864, Mexico.
1942. *Cichlasoma helleri* (Steindachner).
Rio Teapa, Tabasco, Mexico.
Heros helleri Steindachner, Chromiden Mejicos, 8, 1864, Mexico.
1943. *Cichlasoma balteatum* (Gill & Bransford).
Lake Nicaragua.
Heros balteatus Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 184, Lake Nicaragua.
1944. *Cichlasoma rostratum* (Gill & Bransford).
Lake Nicaragua.
Heros rostratus Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 181, Lake Nicaragua.
1945. *Cichlasoma malanopogon* (Steindachner).
Central America.
Heros malanopogon Steindachner, Chromiden Mejicos 16, in Denkschr. Akad. Wiss. Wien, XXIII, 1864, 72, pl. 1, fig. 3, Central America.
1946. *Cichlasoma melanurum* (Günther).
Guatemala.
Heros melanurus Günther, Cat., 288, 1862, Lake Peten, Guatemala.
1947. *Cichlasoma nebuliferum* (Günther).
Mexico.
Chromis nebulifer Günther, Proc. Zool. Soc. Lond. 1860, 318, Mexico.
1948. *Cichlasoma lentiginosum* (Steindachner).
Mexico.
Heros lentiginosus Steindachner, Chromiden Mejicos, 6, 1864, Mexico.
1949. *Cichlasoma deppli* (Heckel).
Mexico.
Heros deppei Heckel, Brasil. Flussfische, 382, 1840, Mexico.
- Subgenus *ARCHOCENTRUS* GILL.
Archocentrus Gill, Proc. Ac. Nat. Sci. Phila. 1877, 186 (*centrarchus*).
1950. *Cichlasoma nigrofasciatum* (Günther).
Lakes Atitlan, Amatitlan, and Nicaragua.
Heros nigrofasciatus Günther, Fish. Centr. Amer., 452, 1869, Lake Atitlan.
1951. *Cichlasoma multispinosum* (Günther).
Lake Managua, Guatemala.
Heros multispinosus Günther, Fish. Centr. Amer., 453, 1869, Lake Managua.
1952. *Cichlasoma centrarchus* (Gill & Bransford).
Lake Nicaragua.
Heros centrarchus Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 185, Lake Nicaragua.

Genus 618. **HEROS** Heckel.

Heros Heckel, Ann. Wiener Mus. 1840, 362 (*severus*, etc., restricted by Jordan & Gilbert to *severus*).

1953. **Heros friedrichsthalii** Heckel.

Lake Peten, Lake Nicaragua and its outlet, Rio San Juan.

Heros friedrichsthalii Heckel, Brasil. Flussfische, 381, 1840, Rio San Juan.

1954. **Heros salvini** Günther.

Guatemala.

Heros salvini Günther, Cat., iv, 294, 1862, Rio de Santa Yzabal.

1955. **Heros affinis** Günther.

Lake Peten, Guatemala.

Heros affinis Günther, Cat., iv, 292, 1862, Lake Peten, Guatemala.

1956. **Heros maculipinnis** Steindachner.

Rio Xamapa, near Vera Cruz, Mexico.

Heros maculipinnis, Steindachner, Chromiden Mejicos, 15, 1864, Rio Xamapa, near Vera Cruz, Mexico.

1957. **Heros trimaculatus** Günther.

Chiapam and Huamuchal.

Heros trimaculatus Günther, Fish. Centr. Amer., 461, 1869, Chiapam and Huamuchal.

1958. **Heros labiatus** Günther.

Lake Managua.

Heros labiatus Günther, Proc. Zool. Soc. Lond. 1864, 27, pl. 4, fig. 1, Lake Managua.

1959. **Heros lobocheilus** Günther.

Lake Managua.

Heros lobocheilus Günther, Fish. Centr. Amer., 457, 1869, Lake Managua.

1960. **Heros erythræus** Günther.

Lake Managua.

Heros erythræus Günther, Fish. Centr. Amer., 457, 1869, Lake Managua.

1961. **Heros basilaris** Gill & Bransford.

Lake Nicaragua.

Heros basilaris Gill & Bransford, Proc. Ac. Nat. Sci. Phila. 1877, 182, Lake Nicaragua.

1962. **Heros nicaraguensis** Günther.

Lake Nicaragua.

Heros nicaraguensis Günther, Proc. Zool. Soc. Lond. 1864, 153, Lake Nicaragua.

1963. **Heros managuensis** Günther.

Lake Managua.

Heros managuensis Günther, Fish. Centr. Amer., 463, 1869, Lake Managua.

1964. **Heros citrinellus** Günther.

Lake Nicaragua.

Heros citrinellus Günther, Proc. Zool. Soc. Lond. 1864, 153, Lake Nicaragua.

1965. **Heros aureus** Günther.

Lake Yzabal, Rio Motagua, and Lake Nicaragua.

Heros aureus Günther, Cat., iv, 292, 1862, Yzabal and Rio Motagua.

1966. **Heros motaguensis** Günther.

Rio Motagua and Lake Nicaragua.

Heros motaguensis Günther, Fish. Centr. Amer., 462, 1869, Rio Motagua.

1967. **Heros oblongus** Günther.

Rio Motagua.

Heros oblongus Günther, Fish. Centr. Amer., 464, 1869, Rio Motagua.

1968. *Heros dovii* Günther.

Lake Nicaragua.

Heros dovii Günther, Proc. Zool. Soc. Lond. 1864, 154, Lake Nicaragua.1969. *Heros gibbiceps* Steindachner.

Rio Teapa, Tabasco, Mexico.

Heros gibbiceps Steindachner, Chromiden Mejicos, 12, 1864, Rio Teapa, Tabasco, Mexico.1970. *Heros microphthalmus* Günther.

Rio Motagua.

Heros microphthalmus Günther, Cat., IV, 295, 1862, Rio Motagua.1971. *Heros urophthalmus* Günther.

Lake Peten, Guatemala.

Heros urophthalmus Günther, Cat., IV, 291, 1862, Lake Peten, Guatemala.1972. *Heros troscheli* Steindachner.

Mexico.

Heros troscheli Steindachner, Ichthyologische Notizen, IV, 12, 1867, Mexico.1973. *Heros cyanoguttatus* (Baird & Girard).Southwestern rivers of Texas and northeastern Mexico; basin of the Rio Grande; the only species of *Cichlida* entering the United States.*Herichthys cyanoguttatus* Baird & Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 25, Rio Grande, Brownsville, Texas.1974. *Heros pavonaceus* Garman.

Spring near Monclova, in Coahuila, Mexico.

Heros pavonaceus Garman, Bull. Mus. Comp. Zool., VIII, 93, 1881, spring near Monclova, in Coahuila.1975. *Heros altifrons* Kner & Steindachner.

Isthmus of Panama and southward.

Heros altifrons Kner & Steindachner, Sitzungsber. Bayer. Akad. 1863, 223, New Grenada.1976. *Heros beani* Jordan. *Mojarra Verde*.

Rio Presidio, Mazatlan, Mexico.

Heros beani Jordan, Proc. U. S. Nat. Mus. 1888, 332, Rio Presidio, Mazatlan.1977. *Heros tetracanthus* (Cuvier & Valenciennes). *Viajaca*.

Rivers of Cuba.

Centrarchus tetracanthus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 460, 1831, Cuba.Genus 619. *THERAPS* Günther.*Theraps* Günther, Cat., IV, 284, 1862 (*irregularis*).1978. *Theraps irregularis* Günther.

Guatemala.

Theraps irregularis Günther, Cat., IV, 284, 1862, Guatemala.Genus 620. *NEETROPLUS* Günther.*Neetroplus* Günther, Fish. Centr. Amer., 469, 1869 (*nematropus*).1979. *Neetroplus nematropus* Günther.

Lake Managua.

Neetroplus nematropus Günther, Fish. Centr. Amer., 470, 1869, Lake Managua.1980. *Neetroplus nicaraguensis* Gill & Bransford.

Lake Nicaragua.

Neetroplus nicaraguensis Günther, Proc. Ac. Nat. Sci. Phila. 1877, 186, Lake Nicaragua.Genus 621. *SATANOPERCA* Günther. *Pappatarros*.*Satanoperca* Günther, Cat., IV, 312, 1862 (*daemon*).1981. *Satanoperca crassilabris* Steindachner.

Panama.

Geophagus (Satanoperca) crassilabris Steindachner, Verh. Ak. Wiss. Wien 1876, 65, Panama.

Family CLXI. POMACENTRIDÆ. Demoiselles.

Genus 622. CHROMIS Cuvier. *Chauffe-Soleils*.

Chromis Cuvier, Mémoires du Mus. d'Hist. Nat., I, 353, 1815 (*chromis*).

Subgenus FURCARIA Poey.

Furcaria Poey, Memorias, II, 194, 1860 (*puncta*).

1982. *Chromis atrilobata* Gill.

Pacific Coast of America, from Cape San Lucas and southward.

Chromis (*Furcaria*) *atrilobata* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 149, Cape San Lucas, Lower California.

1983. *Chromis cyaneus* (Poey).

Cuba.

Furcaria cyanea Poey, Memorias, II, 196, 1860, Havana.

1984. *Chromis multilineatus* (Guichenot).

Cuba.

Heliases multilineatus Guichenot, in Ramon de la Sagra, Poiss. Cuba, 76, pl. 2, fig. 2, 1855, Havana.

Subgenus AYRESIA Cooper.

Ayresia Cooper, Proc. Cal. Ac. Sci. 1863, 73 (*punctipinnis*).

1985. *Chromis punctipinnis* (Cooper). *Blacksmith*.

Coast of California, from Point Conception to Cerros Island.

Ayresia punctipinnis Cooper, Proc. Cal. Ac. Sci. 1863, 73, San Diego Bay, San Pedro, and Santa Barbara.

Subgenus HELIASES Cuvier & Valenciennes.

Heliases Cuvier & Valenciennes, Hist. Nat. Poiss., v, 495, 1830 (*insolatus*).

1986. *Chromis insolatus* (Cuvier & Valenciennes). *Chauffe-Soleil*.

West Indies, north to Pensacola.

Heliases insolatus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 494, pl. 137, 1830, Martinique.

1987. *Chromis enchrysurus* Jordan & Gilbert.

Snapper Banks, off Pensacola and Tampa, Florida.

Chromis enchrysurus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 286, Pensacola, Florida.

Genus 623. EUPOMACENTRUS Bleeker. *Pescados Azules*.

Eupomacentrus Bleeker, Nat. Verh. Holl. Maats. Wet., II, 1877, 73 (*lividus*).

Subgenus EUPOMACENTRUS Bleeker.

1988. *Eupomacentrus leucurus* (Gilbert).

Socorro Island, one of the Revillagigedo group, off west coast of Mexico.

Pomacentrus leucurus Gilbert, Proc. U. S. Nat. Mus. 1891, 554, Socorro Island.

1989. *Eupomacentrus adustus* (Troschel).

Cuba.

Pomacentrus adustus Troschel, in J. W. von Müller's Reise in Mexico, 633, 1865, Mexico.

1990. *Eupomacentrus fuscus* (Cuvier & Valenciennes). *Maria Molle*.

West Indies and coast of Brazil north to Key West.

Pomacentrus fuscus Cuvier & Valenciennes, Hist. Nat. Poiss., v, 432, 1830, Brazil.

1991. *Eupomacentrus rectifrænum* (Gill). *Pescado Azul*.

Pacific Coast of America, from Cape San Lucas to Panama.

Pomacentrus rectifrænum Gill, Proc. Ac. Nat. Sci. Phila. 1862, 148, Cape San Lucas, Lower California.

1992. *Eupomacentrus analis* (Poey).
Cuba and Key West.
Pomacentrus analis Poey, Synopsis, 327, 1867, Havana.
1993. *Eupomacentrus otophorus* (Poey).
Cuba.
Pomacentrus otophorus Poey, Memorias, II, 188, 1860, Havana.
1994. *Eupomacentrus leucostictus* (Müller & Troschel). *Beau Gregory*; *Black Pilot*.
West Indies to Snapper Banks, west Florida.
Pomacentrus leucostictus Müller & Troschel, in Schomburgk's Hist. Barbados, 674, 1848, Barbados.
1995. *Eupomacentrus flaviventer* (Troschel).
Atlantic Coast of Mexico.
Pomacentrus flaviventer Troschel, in Von Müller's Reise in Mexico, etc., 633, 1865, "Atlantic Ocean."
1996. *Eupomacentrus flavilatus* (Gill). *Pescado Azul de dos Colores*.
Pacific Coast of America, from Cape San Lucas to Mazatlan and beyond.
Pomacentrus flavilatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 148, Cape San Lucas, Lower California.
1997. *Eupomacentrus partitus* (Poey).
Cuba.
Pomacentrus partitus Poey, Synopsis, 327, 1867, Havana.
1998. *Eupomacentrus planifrons* (Cuvier & Valenciennes). *Petite Jaquette*.
West Indies, from Jamaica to Martinique.
Pomacentrus planifrons Cuvier & Valenciennes, Hist. Nat. Poiss., v, 431, 1830, Martinique.
- Genus 624. *ABUDEFDUF* Forskål. *Pintanos*.
Abudedefduf Forskål, Descr. Anim., etc., 59, 1775 (*sordidus*).
- Subgenus *GLYPHISODON* Lacépède.
Glyphisodon Lacépède, Hist. Nat. Poiss., IV, 542, 1803 (*moncharia*).
1999. *Abudedefduf saxatilis* (Linnaeus). *Pintano*; *Cow-pilot*; *Jaqueta*; *Mojarra*; *Kaiado*; *Demoiselle*.
Both coasts of tropical America.
Chatodon saxatilis Linnaeus, Syst. Nat., ed. x, 276, 1758, "India"; after Mus. Adolph Frederici.
2000. *Abudedefduf declivifrons* (Gill).
Pacific Coast of tropical America, from Cape San Lucas southward.
Euschistodus declivifrons Gill, Proc. Ac. Nat. Sci. Phila. 1862, 145, Cape San Lucas.
2001. *Abudedefduf analogus* (Gill).
Atlantic Coast of Central America.
Euschistodus analogus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 219, Aspinwall.
2002. *Abudedefduf taurus* (Müller & Troschel). *Dovetail-fish*.
Glyphisodon taurus Müller & Troschel, in Schomburgk's History of Barbados, 674, 1848, Barbados.
2003. *Abudedefduf rudis* (Poey).
Cuba.
Glyphisodon rudis Poey, Memorias, II, 191, 1860, Havana.
- Genus 625. *HYPHYPOPS* Gill. *Garibaldis*.
Hypsypops Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*rubicundus*).
2004. *Hypsypops rubicundus* (Girard). *Garibaldi*.
Coast of California south to Point Conception.
Glyphisodon rubicundus Girard, Proc. Ac. Nat. Sci. Phila. 1864, 148, Monterey, California.

Genus 626. **MICROSPATHODON** Günther.*Microspathodon* Günther, Cat., IV, 35, 1862 (*chrysurus*).2005. **Microspathodon chrysurus** (Cuvier & Valenciennes).

West Indies, Cuba and St. Thomas.

Glyphidodon chrysurus Cuv. & Val., Hist. Nat. Poiss., v, 476, 1830, St. Thomas.2006. **Microspathodon bairdii** (Gill).

Pacific Coast of tropical America, from Cape San Lucas to Panama.

Pomacentrus bairdii Gill, Proc. Ac. Nat. Sci. Phila. 1862, Cape San Lucas.2007. **Microspathodon niveatus** (Poey).

Cuba.

Pomacentrus niveatus Poey, Enumeratio, 102, 1875, Havana.2008. **Microspathodon dorsalis** (Gill).

Pacific Coast of America, from Cape San Lucas to Mazatlan.

Hypopops dorsalis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 147, Cape San Lucas.2008a. **Microspathodon dorsalis azurissimus** Jordan & Starks.

Mazatlan, Mexico; Panama.

Microspathodon azurissimus Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 478, pl. 44, Venados Islands, Mazatlan.2008b. **Microspathodon dorsalis cinereus** Gilbert.

Clarion and Socorro islands and Panama.

Microspathodon cinereus Gilbert, Proc. U. S. Nat. Mus. 1890, 50, Clarion and Socorro islands.

Suborder PHARYNGOGNATHI. The Labroid Fishes.

Family CLXII. LABRIDÆ. The Wrasse-Fishes.

Genus 627. **CENTROLABRUS** Günther. *Rock Cooks*.*Centrolabrus* Günther, Cat., IV, 92, 1862 (*exoletus*).2009. **Centrolabrus exoletus** (Linnaeus). *Rock Cook*.

Coasts of northern Europe south to Cornwall; Greenland.

Labrus exoletus Linnaeus, Syst. Nat., ed. x, 274, 1758, Atlantic Ocean.Genus 628. **TAUTOGOLABRUS** Günther. *Cunners*.*Tautogolabrus* Günther, Cat., IV, 89, 1862 (*burgall* = *adspersus*).2010. **Tautogolabrus adspersus** (Walbaum). *Cunner; Chogset; Blue Perch; Bergall (Berg-gyllt)*.

Atlantic coasts of North America, from Labrador to Sandy Hook.

Labrus adspersus Walbaum, Artedi Piscium, 254, 1792; after *Bergall* of Schöpf, no locality.Genus 629. **TAUTOGA** Mitchill. *Tautogs*.*Tautoga* Mitchill, Report Fishes New York, 23, 1814 (*tautoga*).2011. **Tautoga onitis** (Linnaeus). *Tautog; Blackfish; Oyster-fish*.

Atlantic coasts of United States, Cape Ann to Charleston.

Labrus onitis Linnaeus, Syst. Nat., ed. x, 286, 1758, locality unknown.Genus 630. **LACHNOLAIMUS** Cuvier & Valenciennes. *Capitaines*.*Lachnolaimus* Cuvier & Valenciennes, Hist. Nat. Poissons, XIII, 274, 1839 (*aigula* = *maximus*).2012. **Lachnolaimus maximus** (Walbaum). *Hogfish; Capitaine; Perro Perro*.

West Indies, north to Key West and the Bermudas.

Labrus maximus Walbaum, Artedi Piscium, 261, 1792, no locality; after Catesby.

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Genus 631. *HARPE* Lacépède. *Lady-fishes*.

Harpe Lacépède, Hist. Nat. Poiss., IV, 426, 1802 (*cæruleo-aureus* = *rufa*).

2013. *Harpe diplotænia* Gill.

Pacific Coast of tropical America; Cape San Lucas; Panama; Revillagigedo Islands; Mazatlan.

Harpe diplotænia Gill, Proc. Ac. Nat. Sci. Phila. 1862, 140, Cape San Lucas.

2014. *Harpe rufa* (Linnaeus). *Lady-fish*; *Spanish Lady-fish*; *Spanish Hog-fish*; *Pudiano*; *Perro Colorado*.

West Indies, north to Key West, south to Rio de Janeiro.

Labrus rufus Linnaeus, Syst. Nat., ed. x, 284, 1758, in America; after Catesby.

2015. *Harpe eclancheri* (Valenciennes).

Galapagos Islands.

Cossyphus eclancheri Valenciennes, Voy. Vénus, Zool., 340, Poiss., pl. 8, fig. 2, plates 1846, text 1855, Galapagos Islands.

2016. *Harpe pulchella* (Poey).

Cuba.

Cossyphus pulchellus Poey, Memorias, II, 208, 1860, Havana.

Genus 632. *DECODON* Günther.

Decodon Günther, Cat., IV, 101, 1862 (*puellaris* Poey).

2017. *Decodon puellaris* (Poey).

West Indies; Cuba; Barbados; Snapper Banks.

Cossyphus puellaris Poey, Memorias, II, 210, 1860, Havana.

Genus 633. *PIMELOMETOPON* Gill. *Fat-heads*.

Pimelometopon Gill, Proc. Ac. Nat. Sci. Phila. 1864, 58 (*pulcher*).

2018. *Pimelometopon pulcher* (Ayres). *California Redfish*; *Fat-head*.

Southern California, from Point Conception to Ascension Island, Lower California.

Labrus pulcher Ayres, Proc. Cal. Ac. Sci., I, 1854, 3, San Diego.

2019. *Pimelometopon darwini* (Jenyns).

Galapagos Islands.

Cossyphus darwini Jenyns, Voy. Beagle, Fishes, 100, pl. 20, 1842, Chatham Island, Galapagos Archipelago.

Genus 634. *CLEPTICUS* Cuvier & Valenciennes.

Clepticus Cuvier & Valenciennes, Règne Animal, ed. II, vol. 2, 201, 1829 (*genizara* = *parræ*).

2020. *Clepticus parræ* (Bloch & Schneider). *Genizara*; *Janissary*.

West Indies.

Brama parræ Bloch & Schneider, Syst. Ichth., 100, 1801, Havana.

Genus 635. *IRIDIO* Jordan & Evermann.

Iridio Jordan & Evermann, Fishes North and Middle America, 1896 (*radiatus*).

2021. *Iridio radiatus* (Linnaeus). *Pudding Wife*; *Doncella*; *Pudiano Verde*.

West Indies, Brazil north to Florida Keys, Bermuda and St. Paul Rocks.

Labrus radiatus Linnaeus, Syst. Nat., ed. x, 288, 1758, Bahamas; based on Catesby.

2022. *Iridio nicholsi* (Jordan & Gilbert).

Revillagigedo and Galapagos islands.

PlatyGLOSSUS nicholsi Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 231, Braithwaite Bay, Socorro Island.

2023. *Iridio sellifer* (Gilbert).

Revillagigedo Archipelago.

Halichæres sellifer Gilbert, Proc. U. S. Nat. Mus. 1890, 67, Clarion Island.

2024. *Iridio semicinctus* (Ayres). *Kelpfish*; *Señorita*.
Southern California, Santa Barbara Islands to Cerros Island.
Julis semicinctus Ayres, Proc. Cal. Ac. Sci. 1859, 32, Cerros Island, off coast
Lower California.
2025. *Iridio garnoti* (Cuvier & Valenciennes).
West Indies, Cuba, Martinique, St. Croix.
Julis garnoti Cuv. & Val., Hist. Nat. Poiss., XIII, 390, 1839, Martinique.
2026. *Iridio cyanocephalus* (Bloch).
West Indies, south to Brazil.
Labrus cyanocephalus Bloch, Ichthyol., pl. 286, 1791, locality unknown,
Museum of Jink.
2027. *Iridio maculipinna* (Müller & Troschel).
West Indies to Beaufort, North Carolina.
Julis maculipinna Müller & Troschel, in Schomburgk, Hist. Barbados, 674,
1848, Barbados.
2028. *Iridio bivittatus* (Bloch). *Slippery Dick*; *Donoella*.
West Indies, north to Beaufort, North Carolina, and south to Brazil.
Labrus bivittatus Bloch, Ichthyol., pl. 284, fig. 1, 1792; from a painting by
Plumier made at Martinique.
2029. *Iridio dispilus* (Günther).
Pacific Coast of tropical America, Mazatlan to Panama.
PlatyGLOSSUS dispilus Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.
2030. *Iridio kirschii* Jordan & Evermann.
West Indies, south to Bahia; Cuba; Jamaica; St. Croix.
Iridio kirschii Jordan & Evermann, Fishes N. and M. Amer. 1896, Jamaica.
2031. *Iridio poeyi* (Steindachner).
Surinam.
PlatyGLOSSUS poeyi Steindachner, Ichth. Notizen, VI, 49, 1867, Surinam.
2032. *Iridio caudalis* (Poey).
Cuba.
Julis caudalis Poey, Memorias, II, 213, 1860, Havana.
2033. *Iridio pictus* (Poey).
West Indies, north to the Snapper Banks off Pensacola.
Julis pictus Poey, Memorias, II, 214, 1860, Havana.
- Genus 636. *OXYJULIS* Gill. *Señoritas*.
Oxyjulis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 330 (*modestus*).
2034. *Oxyjulis modestus* (Girard). *Señorita*.
Coast of southern California; Monterey to Guadalupe Island.
Julis modestus Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 151, San Diego, Mon-
terey, and San Miguel.
- Genus 637. *EMMEEKIA* Jordan & Evermann.
Emmeekia Jordan & Evermann, Fishes N. and M. America, 1896 (*venustus*).
2035. *Emmeekia venusta* (Jenkins & Evermann).
Gulf of California.
Pseudojulis venustus Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 145,
Guaymas, Sonora.
- Genus 638. *JULIDIO* Jordan & Evermann.
Julidio Jordan & Evermann, Fishes North and Middle America, 1896 (*adustus*).
2036. *Julidio adustus* (Gilbert).
Revillagigedo Islands.
Pseudojulis adustus Gilbert, Proc. U. S. Nat. Mus. 1890, 66, Socorro Island.
2037. *Julidio notospilus* (Günther).
Pacific Coast of Mexico, Mazatlan to Panama.
Pseudojulis notospilus Günther, Proc. Zool. Soc. Lond. 1864, 26, Panama.

Genus 639. PSEUDOJULIS Bleeker.*Pseudojulis* Bleeker, Proc. Zool. Soc. Lond. 1861, 412 (*girardi*).**2038. Pseudojulis inornatus** Gilbert.

Pacific Coast of Mexico; only the type known.

Pseudojulis inornatus Gilbert, Proc. U. S. N. M. 1890, 67, west coast of Mexico.**2039. Pseudojulis melanotis** Gilbert.

Pacific Coast of Mexico; only the type known.

Pseudojulis melanotis Gilbert, Proc. U. S. N. M. 1890, 67, west coast of Mexico.**Genus 640. CHLORICHTHYS** Swainson.*Chlorichthys* Swainson, Nat. Hist. Class. Fishes, II, 232, 1839 (*bifasciatus*, etc.).**2040. Chlorichthys lucasanus** (Gill).

Gulf of California, Cape San Lucas to Mazatlan and Tres Marias.

Julis lucasanus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 142, Cape San Lucas.**2041. Chlorichthys socorroensis** (Gilbert).

Revillagigedo Archipelago.

Thalassoma socorroense Gilbert, Proc. U. S. Nat. Mus. 1890, 69, Socorro Island.**2042. Chlorichthys nitidus** (Günther).

West Indies, Jamaica.

Julis nitida Günther, Cat., IV, 190, 1862, Jamaica.**2043. Chlorichthys nitidissimus** (Goode).

Bermudas.

Julis nitidissima Goode, Am. Jour. Sci. Arts 1877, 293, Bermudas.**2044. Chlorichthys steindachneri** (Jordan).

Acapulco, west coast of Mexico.

Thalassoma steindachneri Jordan, Review Labroid Fishes, 654, 1887 (1890), Acapulco; after Steindachner.**2045. Chlorichthys bifasciatus** (Bloch).

West Indies, Cuba, Jamaica, San Domingo, and Martinique.

Labrus bifasciatus Bloch, Ichthyol., 131, pl. 283, 1792, West Indies.**2046. Chlorichthys grammaticus** (Gilbert).

Revillagigedo Archipelago.

Thalassoma grammaticum Gilbert, Proc. U. S. Nat. Mus. 1890, 68, Socorro Island; Clarion Island.**2047. Chlorichthys virens** (Gilbert).

Revillagigedo Archipelago.

Thalassoma virens Gilbert, Proc. U. S. Nat. Mus. 1890, 68, Socorro Island.**Genus 641. DORATONOTUS** Günther.*Doratonotus* Günther, Cat., IV, 124, 1862 (*megalepis*).**2048. Doratonotus megalepis** Günther.

West Indies, north to Key West.

Doratonotus megalepis Günther, Cat., IV, 125, 1862, St. Christopher.**Genus 642. XYRULA** Jordan.*Xyrula* Jordan, Review Labroid Fishes, 656, 1887 (1890) (*jessiae*).**2049. Xyrula jessiae** (Jordan).

Snapper Banks, off Tampa, Florida.

Xyrichthys jessiae Jordan, Proc. U. S. N. M. 1887, 698, off Tampa Bay, Florida.**Genus 643. NOVACULICHTHYS** Bleeker.*Novaculichthys* Bleeker, Proc. Zool. Soc. Lond. 1861, 414 (*macrolepidotus*).**2050. Novaculichthys rosipes** (Jordan & Gilbert).

Key West, Florida.

Xyrichthys rosipes Jordan & Gilbert, Proc. U. S. N. M. 1884, 27, Key West.**2051. Novaculichthys ventralis** (Bean).

Cozumel Island, Yucatan.

Xyrichthys ventralis Bean, Bull. U. S. F. C. 1888, 198, pl. 29, fig. 1, Cozumel.

2052. *Novaculichthys infirmus* (Bean).
Cozumel, Yucatan.
Xyrichthys infirmus Bean, Bull. U. S. F. C. 1888, 199, pl. 29, fig. 2, Cozumel.
2053. *Novaculichthys martinicensis* (Cuvier & Valenciennes).
Martinique.
Xyrichthys martinicensis Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 49, 1839, Martinique.
- Genus 644. **XYRICHTHYS** Cuvier *Razor-fishes*.
Xyrichthys Cuvier, Mém. Mus. d'Hist. Nat., I, 324, 329, 1815 (*novacula*).
2054. *Xyrichthys mundiceps* Gill.
Cape San Lucas, Lower California.
Xyrichthys mundiceps Gill, Proc. Ac. Nat. Sci. Phila. 1862, 143, Cape San Lucas.
2055. *Xyrichthys psittacus* (Linnaeus). *Razor-fish*.
West Indies, north to Pensacola and Charleston.
Coryphæna psittacus Linnaeus, Syst. Nat., ed. xii, 448, 1766, Charleston, S. C.
2056. *Xyrichthys modestus* Poey.
Cuba.
Xyrichthys modestus Poey, Repertorio, II, 238, 1867, Havana.
- Genus 645. **INIISTIUS** Gill.
Iniistius Gill, Proc. Ac. Nat. Sci. Phila. 1862, 143 (*pavo*).
2057. *Iniistius mundicorpus* Gill.
Rocky islands on Pacific Coast of Mexico.
Iniistius mundicorpus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 145, Cape San Lucas.
- Family CLXIII. SCARIDÆ. The Parrot-Fishes.**
- Genus 646. **CRYPTOTOMUS** Cope.
Cryptotomus Cope, Trans. Amer. Philos. Soc. 1871, 462 (*roseus*).
2058. *Cryptotomus dentiens* (Poey).
Cuba.
Calliodon dentiens Poey, Memorias, II, 422, 1861, Cuba.
2059. *Cryptotomus retractus* (Poey).
West Indies, north to Pensacola.
Calliodon retractus Poey, Synopsis, 345, 1868, Havana.
2060. *Cryptotomus ustus* (Cuvier & Valenciennes).
West Indies, north to Charleston, south to Bahia.
Calliodon ustus Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 286, 1839, Brazil.
2061. *Cryptotomus auropunctatus* (Cuvier & Valenciennes).
San Domingo.
Calliodon auropunctatus Cuvier & Valenciennes, Hist. Nat. Poiss., xiv, 290, 1839, San Domingo.
2062. *Cryptotomus beryllinus* Jordan & Swain.
Florida Keys, north to New Jersey, south to Rio Janeiro.
Cryptotomus beryllinus Jordan & Swain, Proc. U. S. N. M. 1884, 101, Havana.
2063. *Cryptotomus roseus* Cope.
West Indies, south to Brazil.
Cryptotomus roseus Cope, Trans. Am. Phil. Soc., XIII, 1869, 462, St. Martins.
- Genus 647. **CALOTOMUS** Gilbert.
Calotomus Gilbert, Proc. U. S. Nat. Mus. 1890, 70 (*xenodon*).
2064. *Calotomus xenodon* Gilbert.
Socorro Island, Rivillagigedo Archipelago.
Calotomus xenodon Gilbert, Proc. U. S. Nat. Mus. 1890, 70, Socorro Island.

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Genus 648. SPARISOMA Swainson. *Vieja*.

Sparisoma Swainson, Nat. Hist. Class. Fishes, etc., II, 227, 1839 (*abildgaardii*).

Subgenus SPARISOMA Swainson.

2065. *Sparisoma xystrodon* Jordan & Swain.
West Indies, north to Key West.
Sparisoma xystrodon Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 99, Key West; Havana.
2066. *Sparisoma atomarium* (Poey).
Cuba.
Scarus atomarius Poey, Memorias, II, 423, 1861, Havana.
2067. *Sparisoma radians* (Cuvier & Valenciennes).
West Indies, south to Brazil.
Scarus radians Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 206, 1839, Brazil.
2068. *Sparisoma hoplomystax* (Cope).
West Indies, from Key West to Bahia.
Scarus hoplomystax Cope, Trans. Amer. Philos. Soc 1869, 462, St. Martins.
2069. *Sparisoma niphobles* Jordan & Bollman.
Bahamas; only type known.
Sparisoma niphobles Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 551, Green Turtle Cay, Bahamas.
2070. *Sparisoma aurofrenatum* (Cuvier & Valenciennes).
West Indies.
Scarus aurofrenatus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 191, 1839, San Domingo.
2071. *Sparisoma oxybrachium* (Poey).
Cuba.
Scarus oxybrachius Poey, Synopsis, 342, 1868, Havana.
2072. *Sparisoma abildgaardii* (Bloch). *Red Parrot-fish*.
West Indies, south to Brazil.
Scarus abildgaardii Bloch, Ichthyol., pl. 259, 1791, "America."
2073. *Sparisoma distinctum* (Poey).
Cuba.
Scarus distinctus Poey, Memorias, II, 423, 1861, Havana.
2074. *Sparisoma chrysopterum* (Bloch & Schneider). *Vieja*.
West Indies, south to Bahia.
Scarus chrysopterus Bloch & Schneider, Syst. Ichth., 286, pl. 57, 1801, "American seas."
2075. *Sparisoma lorito* Jordan & Swain.
West Indies.
Sparisoma lorito Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 95, Havana.
2076. *Sparisoma viride* (Bonnaterre). *Green Parrot-fish*.
West Indies.
Scarus viridis Bonnaterre, Enc. Meth., X, 96, 193, 1788, Bahamas; after Catesby.
- Subgenus EUSCARUS Jordan & Evermann.
Euscarus Jordan & Evermann, Fishes N. and M. Amer., 1896 (*cretenses*).
2077. *Sparisoma strigatum* (Günther).
Locality unknown; but as the genus *Sparisoma* is chiefly confined to American waters, this species is probably American.
Scarus strigatus Günther, Cat., IV, 212, 1862, locality unknown.
2078. *Sparisoma flavescens* (Bloch & Schneider). *Vieja Colorado*; *Vieja Muger*.
West Indies; Key West to Rio Janeiro.
Scarus flavescens Bloch & Schneider, Syst. Ichth., 290, 1801, Cuba; after Parra.

2079. *Sparisoma truncatum* (Poey)
Cuba.
Scarus truncatus Poey, Synopsis, 339, 1868, Havana.
2080. *Sparisoma circumnotatum* (Poey).
Cuba.
Scarus circumnotatus Poey, Memorias, II, 423, 1861, Havana.
2081. *Sparisoma frondosum* (Cuvier).
West Indies, south to Brazil.
Scarus frondosus Cuvier, in Agassiz, Pisc. Brasil., 98, 1829, Bahia.
2082. *Sparisoma brachialis* (Poey).
Cuba.
Scarus brachialis Poey, Memorias, II, 345, 1861, Cuba.
2083. *Sparisoma maschalespilos* (Bleeker).
Surinam.
Scarus maschalespilos Bleeker, Notices Ichthyologiques, I-x, 5, 1862, Surinam.
2084. *Sparisoma aracanga* (Günther).
Jamaica.
Scarus aracanga Günther, Cat., IV, 200, 1862, Jamaica.
- Genus 649. SCARUS Forskäl. *Loros*; *Parrot-fishes*.
Scarus Forskäl, Descr. Animal, etc., in Orient. Obs., 25, 1775 (*psitticus*, etc.).
Subgenus SCARUS Forskäl.
2085. *Scarus punctulatus* Cuvier & Valenciennes.
West Indies.
Scarus punctulatus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 195, 1839, Martinique.
2086. *Scarus bollmani* Jordan & Evermann.
Gulf of Mexico, in moderately deep water.
Scarus bollmani Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 470, off Tampa Bay, Florida.
2087. *Scarus tæniopterus* Desmarest.
West Indies.
Scarus tæniopterus Desmarest, Dict. Classique, xv, 244, pl. 12, 1831, Cuba.
2088. *Scarus aracanga* (Günther).
West Indies.
Pseudoscarus aracanga Günther, Cat., IV, 227, 1862, Jamaica.
2089. *Scarus trispinosus* Cuvier & Valenciennes.
Brazil.
Scarus trispinosus Cuv. & Val., Hist. Nat. Poiss., XIV, 182, 1839, Brazil.
2090. *Scarus cuzamilæ* Bean.
Cozumel Island, Yucatan.
Scarus cuzamila Bean, Bull. U. S. Fish Com. 1888, 196, Cozumel.
2091. *Scarus vetula* (Bloch & Schneider). *Mudfish*; *Vieja*; *Old Wife*.
West Indies.
Scarus vetula Bloch & Schneider, Ichthyol., 289, 1801, Cuba.
2092. *Scarus gnathodus* Poey.
Cuba.
Scarus gnathodus Poey, Repertorio, II, 240, 1867, Havana.
Subgenus CALLIODON Gronow.
Calliodon Gronow, in Bloch & Schneider, Syst. Ichth., 312, 1801 (*lineatus* = *croicensis*).
2093. *Scarus croicensis* (Bloch). *Bullon*.
West Indies, north to Key West.
Scarus croicensis Bloch, Ichthyol., pl. 221, 1790, St. Croix.

2094. *Scarus evermanni* Jordan.

Gulf of Mexico, in moderately deep water.

Scarus evermanni Jordan, Proc. U. S. Nat. Mus. 1886, 469, off Tampa Bay, in moderately deep water.**2095. *Scarus flavomarginatus* Cuvier & Valenciennes.**

Martinique.

Scarus flavomarginatus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 202, 1839, Martinique.**2096. *Scarus acutus* Poey. Loro.**

Cuba.

Scarus acutus Poey, Memorias, II, 216, 1861, Havana.**2097. *Scarus oeruleus* (Bloch). Blue Parrot-fish; Loro; Clamagore.**

West Indies; Chesapeake Bay.

Coryphæna oerulea Bloch, Ausländische Fische, II, 120, pl. 176, 1786, probably Martinique; in part after Catesby.**Genus 650. PSEUDOSCARUS Bleeker. Guacamaias.***Pseudoscarus* Bleeker, Versl. Akad. Wet. Amsterdam, Scaroiden, XII, 1861, 3 (*microrrhinos*).

Subgenus PSEUDOSCARUS Bleeker.

2098. *Pseudoscarus cœlestinus* (Cuvier & Valenciennes). Loro.

West Indies.

Scarus cœlestinus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 180, 1839, St. Thomas.**2099. *Pseudoscarus simplex* Poey.**

Cuba.

Pseudoscarus simplex Poey, Repertorio, I, 185, 1867, Havana.**2100. *Pseudoscarus pleianus* (Poey).**

St. Thomas; only the type known.

Scarus pleianus Poey, Memorias, II, 393, 1861, St. Thomas.

Subgenus LORO Jordan & Evermann.

Loro Jordan & Evermann, Fishes N. and M. America, 1896 (*guacamaias*).**2101. *Pseudoscarus guacamaias* (Cuvier). Guacamaias; Green Parrot-fish.**

West Indies, north to Florida Keys (straying to St. Augustine), south to Rio de Janeiro.

Scarus guacamaias Cuvier, Règne Animal, éd. II, vol. 2, 265, 1829, Cuba; after Parra.**2102. *Pseudoscarus perrico* (Jordan & Gilbert).**

Pacific Coast of Mexico, from La Paz to Mazatlan.

Scarus perrico Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 357, Mazatlan.**Group ZEOIDEI.****Family CLXIV. ZEIDÆ. The John Dories.****Genus 651. ZENOPSIS Gill.***Zenopsis* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 126 (*nebulosus*).**2103. *Zenopsis ocellatus* (Storer).**

Taken off Provincetown, Massachusetts.

Zeus ocellatus Storer, Proc. Bost. Soc. Nat. Hist., VI, 1858, 386, off Provincetown, Massachusetts.**Genus 652. ZENION Jordan & Evermann.***Zenion* Jordan & Evermann, Fishes North and Middle America, 1896 (*hololepis*).**2104. *Zenion hololepis* (Goode & Bean).**

Yucatan; Little Bahama Bank.

Cyttus hololepis Goode & Bean, Oceanic Ichthyology, 225, figs. 233, 233a, and 233b, 1896, off Yucatan and Little Bahama Bank.

Genus 653. **OREOSOMA** Cuvier & Valenciennes.*Oreosoma* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 515, 1830 (*atlanticum*).2105. **Oreosoma atlanticum** Cuvier & Valenciennes.

Open Atlantic; only two specimens known.

Oreosoma atlanticum Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 515, 1829, open Atlantic.Family CLXV. **CAPROIDÆ**. The Bear-Fishes.Genus 654. **ANTIGONIA** Lowe.*Antigonia* Lowe, Proc. Zool. Soc. Lond. 1843, 85 (*capros*).2106. **Antigonia capros** Lowe. *Shishidai*.

Atlantic and Pacific; Tokio; Ki Islands and Manado.

Antigonia capros Lowe, Proc. Zool. Soc. Lond. 1843, 85, Madeira.Suborder **SQUAMIPINNES**. The Scaly-fins.Family CLXVI. **EPHIPPIDÆ**. The Angel-Fishes.Genus 655. **CHÆTODIPTERUS** Lacépède.*Chaetodipterus* Lacépède, Hist. Nat. Poiss., IV, 503, 1803 (*plumieri* = *faber*).2107. **Chaetodipterus faber** (Broussonet). *Angel-fish*; *Spade-fish*.

West Indies, Cape Cod to Rio Janeiro; south Atlantic Coast.

Chaetodon faber Broussonet, Ichth. Dec. 1, V, pl. 4, 1782, Jamaica.2108. **Chaetodipterus zonatus** (Girard).

Pacific Coast of America, from San Diego to Panama; common southward.

Ephippus zonatus Girard, Pac. R. E. Surv., X, 110, 1858, San Diego, California.Genus 656. **PARAPSETTUS** Steindachner.*Parapsettus* Steindachner, Ichth. Beitr., III, 50, 1875 (*panamensis*).2109. **Parapsettus panamensis** Steindachner.

Panama.

Parapsettus panamensis Steindachner, Ichth. Beitr., III, 51, 1875, Panama.Family CLXVII. **CHÆTODONTIDÆ**. The Butterfly-Fishes.Genus 657. **PROGNATHODES** Gill.*Prognathodes* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 238 (*pelta*).2110. **Prognathodes aculeatus** (Poey).

West Indies.

Chelmon aculeatus Poey, Memorias, II, 202, 1860, Havana.Genus 658. **CHÆTODON** (Artedi) Linnæus.*Chaetodon* (Artedi, Genera, 51, 1738), Linnæus, Syst. Nat., ed. X, 272, 1758, includes all species.Subgenus **CHÆTODONTOPS** Bleeker.*Chaetodontops* Bleeker, Rev. Famille Chaetodontoides, 53, 1877 (*collaris*).2111. **Chaetodon nigrirostris** (Gill).

Cape San Lucas, Lower California.

Sarothrodus nigrirostris Gill, Proc. Ac. Nat. Sci. Phila. 1862, 243, Cape San Lucas, Lower California.2112. **Chaetodon ocellatus** Bloch. *Parêche*; *Isabelita de lo Alto*.

Havana; Gulf Stream; New Jersey and Rhode Island.

Chaetodon ocellatus Bloch, Ichthyologia, pl. 211, fig. 2, 1787.2113. **Chaetodon humeralis** Günther.

Pacific Coast of America, from Guaymas to Panama.

Chaetodon humeralis Günther, Cat., II, 19, 1860, "Sandwich Islands" by error.

2114. *Chaetodon sedentarius* Poey.
West Indian fauna.
Chaetodon sedentarius Poey, *Memorias*, II, 203, 1860, Cuba.
2115. *Chaetodon aya* Jordan.
Gulf of Mexico.
Chaetodon aya Jordan, Proc. U. S. Nat. Mus. 1886, 225, Snapper Banks, near Pensacola, Florida.
Subgenus TETRAGONOPTRUS (Klein) Bleeker.
Tetragonopterus Klein, *Historia Piscium*, 37, 1744 (many species, *striatus*, etc.).
2116. *Chaetodon striatus* Linnæus. *Portuguese Butterfly*.
West Indies.
Chaetodon striatus Linnæus, Syst. Nat., ed. x, 275, 1758, "India."
2117. *Chaetodon ateniatus* (Poey).
Havana, Cuba.
Sarothrodus ateniatus Poey, *Synopsis*, 353, 1868, Havana.
Subgenus CHÆTODON (Arted) Linnæus.
2118. *Chaetodon capistratus* Linnæus. *Parche*.
West Indies; Havana.
Chaetodon capistratus Linnæus, Syst. Nat., ed. x, 275, 1758, India.
Genus 659. POMACANTHUS Lacépède. *Chirivitas*.
Pomacanthus Lacépède, Hist. Nat. Poiss., IV, 517, 1803 (*arcuatus*, as restricted by Cuvier).
Subgenus POMACANTHUS Lacépède.
2119. *Pomacanthus arcuatus* (Linnæus). *Black Angel*; *Chirivita*.
West Indies; north to New Jersey; south to Bahia.
Chaetodon arcuatus Linnæus, Syst. Nat., ed. x, 273, 1758, India.
2120. *Pomacanthus paru* (Bloch). *Paru*; *Indian-fish*; *Flatfish*.
West Indies; south to Bahia.
Chaetodon paru Bloch, Ichth., pl. 197, fig. 1, 1787, Brazil; on a drawing.
Subgenus POMACANTHODES Gill.
Pomacanthodes Gill, Proc. Ac. Nat. Sci. Phila. 1862, 244 (*zonipectus*).
2121. *Pomacanthus zonipectus* (Gill). *Mojarra de las Piedras*.
West coast of tropical America, from Mazatlan to Panama.
Pomacanthodes zonipectus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 244, San Salvador.
Genus 660. HOLACANTHUS Lacépède. *Catalinetas*.
Holacanthus Lacépède, Hist. Nat. Poiss., IV, 525, 1803 (*tricolor*).
2122. *Holacanthus passer* Valenciennes.
West coast of tropical America; Cape San Lucas to Galapagos Islands.
Holacanthus passer Valenciennes, Voyage Vénus, 327, pl. 6, 1846, Galapagos Archipelago.
2123. *Holacanthus clarionensis* Gilbert.
Clarion, Socorro, and San Benedicto islands of the Revillagigedo group.
Holacanthus clarionensis Gilbert, Proc. U. S. Nat. Mus. 1890, 72, Revillagigedo Islands; Clarion, Socorro, and San Benedicto.
2124. *Holacanthus tricolor* (Bloch). *Catalineta*; *Vaqueta de dos Colores*; *Rock Beauty*.
West Indies; north to Bermuda; south to Bahia.
Chaetodon tricolor Bloch, Ichth., pl. 426, 1795.
Genus 661. ANGELICHTHYS Jordan & Evermann.
Angelicthys Jordan & Evermann, new genus (*ciliaris*).
2125. *Angelicthys isabelita* (Jordan & Rutter). *Angel-fish*.
West Indies; north to Key West, Florida.
Holacanthus isabelita Jordan & Rutter MS., Key West.

2126. *Angelichthys iodocus* (Jordan & Rutter).
Galapagos Islands.
Holacanthus iodocus Jordan & Rutter, Proc. U. S. Nat. Mus. 1896, Galapagos Islands.

2127. *Angelichthys ciliaris* (Linnaeus). *Angel-fish; Isabelita; Yellow Angel.*
West Indies north to Key West.
Chatodon ciliaris Linnaeus, Syst. Nat., ed. x, 276, 1758, Indies; in part.

Family CLXVIII. ZANCLIDÆ. The Moorish Idols.

Genus 662. ZANCLUS Cuvier & Valenciennes.

Zanclus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 102, 1831 (*cornutus*).

2128. *Zanclus cornutus* (Linnaeus). *Moorish Idol; Piquier; Porte-Enseigne; Besan.*
East Indies and islands of Polynesia, ranging east to the Revillagigedos.
Chatodon cornutus Linnaeus, Syst. Nat., ed. x, 273, 1758, "Indies"; after Artedi.

Family CLXIX. TEUTHIIDIDÆ. The Surgeons.

Genus 663. TEUTHIS Linnaeus. *Doctor-fishes.*

Teuthis Linnaeus, Syst. Nat., ed. XII, 507, 1766 (*hepatus, jarus*; after *Hepatus* Gronow, same species).

2129. *Teuthis triostegus* (Linnaeus).
Pacific Ocean, from New Zealand and Australia to the Hawaiian Islands and the Revillagigedos.
Chatodon triostegus Linnaeus, Syst. Nat., ed. x, 274, 1758, India.

2130. *Teuthis cœruleus* (Bloch & Schneider). *Barbero; Blue Surgeon; Blue Tang.*
West Indies, Key West and Bermuda to Bahia.
Acanthurus cœruleus Bloch & Schneider, Syst. Ichth., 214, 1801, Carolina; Havana; Jamaica; after Catesby, Parra, and Browne.

2131. *Teuthis hepatus* Linnaeus. *Common Surgeon; Doctor-fish; Lancet-fish; Barber; Tang-Barbero.*
West Indian fauna; Florida to Bahia; Key West and Cuba; Charleston, South Carolina.
Teuthis hepatus Linnaeus, Syst. Nat., ed. XII, 507, 1766, Carolina.

2132. *Teuthis crestonis* Jordan & Starks. *Barbero Negro.*
West coast of Mexico and Central America, Mazatlan to Panama.
Teuthis crestonis Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 485, pl. 47, Mazatlan.

2133. *Teuthis bahianus* (Castelnau). *Barbeiro.*
West Indies and both coasts of tropical America, from Key West and Mazatlan to Bahia and Panama.
Acanthurus bahianus Castelnau, Anim. Nouv. ou Rares de l'Amér. du Sud, 24, pl. 2, fig. 1, 1855, Bahia.

Genus 664. XESURUS Jordan & Evermann.

Xesurus Jordan & Evermann, new genus (*punctatus*).

2134. *Xesurus punctatus* (Gill). *Cochinito.*
Cape San Lucas; Mazatlan; Creston Island.
Prionurus punctatus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 242, Cape San Lucas.
2135. *Xesurus clarionis* Gilbert & Starks.
Galapagos Islands.
Xesurus clarionis Gilbert & Starks, Proc. U. S. Nat. Mus. 1896, Clarion Island, Galapagos Archipelago.

2136. *Xesurus laticlavus* (Valenciennes).
Galapagos Islands; only the type known.
Prionurus laticlavus Valenciennes, Voyage Vénus, 335, pl. 7, fig. 2, 1846, Galapagos Islands.

Suborder SCLERODERMI.

Family CLXX. TRIACANTHIDÆ.

Genus 665. HOLLARDIA Poey.

Hollardia Poey, *Memorias*, II, 318, 1861 (*hollardi*).2137. *Hollardia hollardi* Poey.*Hollardia hollardi* Poey, *Memorias*, II, 318, pl. 18, fig. 11, 1861, Cuba.

Family CLXXI. BALISTIDÆ. The Trigger-Fishes.

Genus 666. BALISTES (Artedi) Linnæus.

Balistes (Artedi) Linnæus, *Syst. Nat.*, ed. x, 327, 1758 (*retula*).

Subgenus CAPRISCUS Rafinesque.

Capriscus Rafinesque, *Indice*, 41, 1810 (*capriscus*).2138. *Balistes polylepis* Steindachner.

Lower California to Panama.

Balistes polylepis Steindachner, *Ichth. Beitr.*, v, 21, 1876, Magdalena Bay; Mazatlan; Acapulco.2139. *Balistes naufragium* Jordan & Starks. *Pez Puerco de las Piedras*.

Mazatlan.

Balistes naufragium Jordan & Starks, *Proc. Cal. Ac. Sci.* 1895, 488, Mazatlan.2140. *Balistes carolinensis* Gmelin. *Leather Jacket*; "Turbot"; *Cucuyo*.

Tropical parts of the Atlantic; Gulf Stream; Mediterranean.

Balistes carolinensis Gmelin, *Syst. Nat.*, I, 1468, 1788, Carolina.2141. *Balistes forcipatus* Gmelin.

West coast of Africa and the neighboring islands.

Balistes forcipatus Gmelin, *Syst. Nat.*, I, 1472, 1788, Brazil; after *Guaperea lata* of Lister.2142. *Balistes powellii* Cope.

Newport, Rhode Island; West Indies; in the Gulf Stream.

Balistes powellii Cope, *Proc. Ac. Nat. Sci. Phila.* 1870, 120, Newport, R. I.

Subgenus BALISTES (Artedi) Linnæus.

2143. *Balistes vetula* Linnæus. *Bessy Cerka*.

Tropical parts of the Atlantic; West Indies; Gulf Stream to Woods Hole.

Balistes vetula Linnæus, *Syst. Nat.*, ed. x, 329, 1758, Ascension Island; after*Balistes vetula* of Osbeck, *Iter Chinensis*, 294, 1757.

Genus 667. PACHYNATHUS Swainson.

Pachynathus Swainson, *Classn. Fishes*, II, 326, 1839 (*triangularis* = *capistratus*); not *Pachygnatha* nor *Pachygnathus*; both these names earlier used for genera of spiders.2144. *Pachynathus capistratus* (Shaw). *Pez Puerco*.

Pacific Ocean; East Indies; China; Pacific Coast of tropical America, from Magdalena Bay to the Galapagos.

Balistes capistratus Shaw, *Genl. Zool.*, v, 417, 1804, after Lacépède.Genus 668. CANTHIDERMIS Swainson. *Sobacos*.*Canthidermis* Swainson, *Nat. Hist. Classn. Anim.*, II, 325, 1839 (*angulosus* = *maculatus*).2145. *Canthidermis sobaco* (Poey). *Sobaco*.

West Indies.

Balistes sobaco Poey, *Memorias*, II, 324, 1861, Havana.2146. *Canthidermis asperrimus* (Cope).

St. Martins, West Indies.

Balistes asperrimus Cope, *Trans. Amer. Philos. Soc.* 1871, 478, supposed to be from St. Martins.

- 2147. *Canthidermis sufflamen* (Mitchill). *Sobaco*.**
West Indies; Havana.
Balistes sufflamen Mitchill, Trans. Lit. Phil. Soc. N. Y., 1, 1815, locality unknown, said by DeKay to be from the South Atlantic.
- 2148. *Canthidermis maculatus* (Bloch).**
West Indies.
Balistes maculatus Bloch, Ichthyologia, pl. 151, 1786, West Indies.
- 2149. *Canthidermis willughbeii* (Lay & Bennett).**
East Indies and Pacific Coast of Mexico.
Balistes willughbeii Lay & Bennett, Zoology, Beechey's Voyage, 68, pl. 21, fig. 2, 1839, Acapulco, Mexico.

Genus 669. XANTHICHTHYS Kaup.

Xanthichthys Kaup, in Richardson, Enc. Brit., ed. XII, 313, 1856 (*curassavicus*).

- 2150. *Xanthichthys ringens* (Linnaeus). *Cocuyo*.**
West Indies and southward, recorded from Mauritius.
Balistes ringens Linnaeus, Syst. Nat., ed. X, 329, 1758, no locality.
- 2151. *Xanthichthys mento* (Jordan & Gilbert).**
West coast of Mexico.
Balistes mento Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 228, Clarion Island, of the Revillagigedo group.

Genus 670. MELICHTHYS Swainson.

Melichthys Swainson, Class. An., II, 325, 1839 (*ringens* Bloch, not of Linnaeus).

- 2152. *Melichthys piceus* (Poey). *Galafate; Calafate*.**
West Indies and southward.
Balistes piceus Poey, Proc. Ac. Nat. Sci. Phila. 1863, 180, Cuba.
- 2153. *Melichthys bispinosus* Gilbert.**
Clarion and Socorro islands.
Melichthys bispinosus Gilbert, Proc. U. S. Nat. Mus. 1890, 125, Clarion and Socorro islands, of the Revillagigedo group.

Family CLXXII. MONACANTHIDÆ. The File-Fishes.

Genus 671. CANTHERINES Swainson.

Cantherines Swainson, Classn. Fishes, II, 327, 1839 (*nasutus = canrichensis*).

- 2154. *Cantherines pullus* (Ranzani). *Lija Colorada*.**
West Indies and coast of Brazil; southern Florida.
Monacanthus pullus Ranzani, Nov. Comm. Act. Sci. Inst. Bonon., v, 4, pl. 1, 1842, Brazil.

Genus 672. MONACANTHUS Cuvier.

Monacanthus Cuvier, Règne Animal, ed. I, 152, 1817 (*chinensis*).

- 2155. *Monacanthus ciliatus* (Mitchill). *Leather-fish; Lija; Flap-mingo*.**
West Indies and Florida; Florida Keys.
Balistes ciliatus Mitchell, Amer. Monthly Mag. & Crit. Rev., March, 1818, 326, Bahama Straits.
- 2156. *Monacanthus hispidus* (Linnaeus). *Fool-fish; File-fish; Leather-fish; Lija; Mingo*.**
Cape Cod to Cuba; South Atlantic Coast and Florida Keys; West Indies to Brazil.
Balistes hispidus Linnaeus, Syst. Nat., ed. XII, 405, 1766, Carolina.
- 2157. *Monacanthus spilonotus* Cope.**
Gulf of Mexico.
Monacanthus spilonotus Cope, Trans. Amer. Philos. Soc. Phila., XIV, 1870, 476.

2158. *Monacanthus oppositus* Poey.

Cuba.

Monacanthus oppositus Poey, Memorias, II, 331, 1861, Havana.

Genus 673. PSEUDOMONACANTHUS Bleeker.

Pseudomonacanthus Bleeker, Nederl. Tyd. Dierkunde, III, 1866, 11 (*macrurus*).2159. *Pseudomonacanthus amphioxys* (Cope).

St. Martins Island, West Indies.

Monacanthus amphioxys Cope, Trans. Amer. Philos. Soc. 1871, 477, St. Martins.

Genus 674. ALUTERA Cuvier.

Les alutères Cuvier, Règne Animal, ed. I, 11, 153, 1817 (*monoceros*).

Subgenus CERATACANTHUS GILL.

Ceratacanthus Gill, Cat. Fishes East Coast U. S., 57, 1861 (*aurantiacus*).2160. *Alutera schoepfii* (Walbaum). *File-fish*; *Lija*; *Fool-fish*.

Cape Cod to the Carolinas and Florida.

Balistes schoepfii Walbaum, Artedi Piscium, 461, 1792, Long Island; after Schöpf, Berlin. Ges. Naturf., VIII, 186, 1788.2161. *Alutera punctata* Agassiz. *Long Mingo*.

Jamaica to Bahia.

Alutera punctata Agassiz, Pisc. Brasil., 437, pl. 72, 1829, Brazil.

Subgenus OSBECKIA Jordan & Evermann.

Osbeckia Jordan & Evermann, new subgenus (*scripta*).2162. *Alutera scripta* (Osbeck). *Unicorn-fish*; *Lija Trompa*.

Tropical seas; West Indies; North Carolina; off west coast of Mexico; Clarion Island, Revillagigedo Islands.

Balistes scriptus Osbeck, Iter Chinesis, I, 144, 1757, China.

Subgenus ALUTERA Cuvier.

2163. *Alutera monoceros* (Osbeck). *Lija Barbuda*.

West Indies; East Indies; Japan.

Balistes monoceros Osbeck, Iter Chinesis, 110, 1757, Asia.

Suborder OSTRACODERMI. The Trunk-Fishes.

Family CLXXIII. OSTRACIIDÆ.

Genus 675. LACTOPHRYS Swainson. *Three-angled Trunk-fishes*.*Lactophrys* Swainson, Nat. Hist. Classn. Fishes, II, 194, 324, 1839 (*trigonus*, etc.).

Subgenus RHINESOMUS Swainson.

Rhinesomus Swainson, Nat. Hist. Classn. Fishes, II, 194, 324, 1839 (*triqueter*).2164. *Lactophrys triqueter* (Linnaeus). *Trunk-fish*; *Rock Shellfish*; *Drunken-fish*; *Chapin*; *Plate-fish*.

West Indies, north to the Bermudas; Key West and Pensacola.

Ostracion triqueter Linnaeus, Syst. Nat., ed. X, 330, 1758, India.

Subgenus CHAPINUS Jordan & Evermann.

Chapinus Jordan & Evermann, new subgenus (*bicaudalis*).2165. *Lactophrys bicaudalis* (Linnaeus). *Chapin*; *Spotted Trunk-fish*.

West Indies, from Cuba to Ascension Island.

Ostracion bicaudalis Linnaeus, Syst. Nat., ed. X, 330, 1758, India; after Artedi.

Subgenus LACTOPHRYS Swainson.

2166. *Lactophrys trigonus* (Linnaeus). *Common Trunk-fish*; *Chapin*; *Shell-fish*.

West Indies, north to Bermuda and Key West; occasionally northward in Gulf Stream to Holmes Hole, Massachusetts, and Chesapeake Bay.

Ostracion trigonus Linnaeus, Syst. Nat., ed. X, 330, 1758, India.

Subgenus ACANTHOSTRACION Bleeker.

Acanthostracion Bleeker, Atlas Ichth., v, 27, 1865 (*quadricornis*).**2167. *Lactophrys tricornis* (Linnaeus).** *Cuckold; Toro; Cowfish.*

Tropical parts of Atlantic, from Carolina to Brazil, ranging north in the Gulf Stream to Charleston and Chesapeake Bay; Gulf of Mexico, at Pensacola and Galveston, eastward to Guinea and Cape of Good Hope.
Ostracion tricornis Linnaeus, Syst. Nat., ed. x, 331, 1758, "In India"; after Artedi.

Suborder GYMNOTONTES.

Family CLXXIV. TETRAODONTIDÆ. The Puffers.

Genus 676. LAGOCEPHALUS Swainson.

Lagocephalus Swainson, Nat. Hist. and Classn. Fishes, II, 194, 328, 1839 (*penanti*=*lagocephalus*).**2168. *Lagocephalus lævigatus* (Linnaeus).** *Smooth Puffer.*

Cape Cod to Brazil; rare north of Cape Hatteras.
Tetrodon lævigatus Linnaeus, Syst. Nat., ed. xii, 411, 1766, Charleston, South Carolina.

2169. *Lagocephalus pachycephalus* (Ranzani). *Jugfish.*

Jamaica to Brazil.
Tetrodon pachycephalus Ranzani, Nov. Comm. Ac. Sci. Inst. Bonon., iv, 1840, 73, pl. 2, fig. 2, Brazil.

Genus 677. SPHEROIDES Lacépède. *Swellfishes.**Les spheroides* Lacépède, Hist. Nat. Poiss., II, 1, 1798 (French name only, *tubercule*).

Subgenus SPHEROIDES Lacépède.

2170. *Spheroides angusticeps* (Jenyns).

Pacific Coast, La Paz to the Galapagos Islands.
Tetrodon angusticeps Jenyns, Voyage Beagle, Fishes, 154, 28, 1842, Galapagos Islands.

2171. *Spheroides lobatus* (Steindachner). *Botete.*

Gulf of California to the Galapagos Islands; Mazatlan; Panama.
Canthogaster? lobatus Steindachner, Ichth. Notizen, x, 1875, 18, pl. 5, fig. 3, Altata.

2172. *Spheroides spengleri* (Bloch). *Southern Puffer; Swell Toad; Tambor.*

West Indies; coast of Texas and Florida, south to Rio Janeiro and to the Madeiras and Canaries.
Tetrodon spengleri Bloch, Ichth., I, 135, pl. 144, 1782, East Indies.

2173. *Spheroides marmoratus* (Ranzani). *Spiny-back Blowfish.*

West Indies to Brazil; Jamaica.
Tetrodon marmoratus Ranzani, Nov. Comm. Ac. Sci. Inst. Bonon., iv, 1840, 72, pl. 10, fig. 1, Brazil.

2174. *Spheroides maculatus* (Bloch & Schneider). *Puffer; Swell Toad; Blower.*

Atlantic Coast of the United States, from Cape Ann to St. Johns River and Biscayne Bay, Florida.
Tetrodon hispidus var. *maculatus* Bloch & Schneider, Syst. Ichth., 504, 1801, Rhode Island; after Schöpfung.

Subgenus CHEILICHTHYS Müller.

Cheilichthys Müller, Abhandl. Akad. Wiss. Berl., 252, 1839 (1841) (*testudineus*).**2175. *Spheroides testudineus* (Linnaeus).** *Tambor; Globefish; Blowfish.*

West Indies; Gulf Stream as far as Newport, Rhode Island.
Tetraodon testudineus Linnaeus, Syst. Nat., ed. x, 332, 1758, in India; based on Balk and Artedi.

2176. *Spheroides annulatus* (Jenyns).

Pacific Coast of tropical America.
Tetrodon annulatus Jenyns, Zool. Beagle, 153, 1842, Galapagos Islands.

- 2176a. *Spheroides annulatus politus* (Girard).
Pacific Coast of tropical America, San Diego to Mazatlan.
Tetrodon politus Girard, Pac. R. R. Surv., x, 340, 1858, San Diego, California.

2177. *Spheroides formosus* (Günther).
Panama.
Tetrodon formosus Günther, Cat., VIII, 283, 1870, South America.

2178. *Spheroides furthii* (Steindachner).
Panama.
Tetrodon furthii Steindachner, Ichth. Beitr., v, 22, 1874, Panama.

2179. *Spheroides trichocephalus* (Cope).
Gulf Stream, off Newport.
Tetrodon trichocephalus Cope, Proc. Ac. Nat. Sci. Phila. 1870, 120, Gulf Stream, off Newport, Rhode Island.

2180. *Spheroides pachygaster* (Müller & Troschel).
Barbados.
Tetrodon (Cheilichthys) pachygaster Müller & Troschel, in Schomburgk's Hist. Barbados, 677, 1840, Barbados.

Genus 678. *OVIDES* Lacépède.

Les ovides Lacépède, Hist. Nat. Poiss., I, 256, 1797 (*fasce*; French name only; based on front view of *Tetraodon stellatus*).

2181. *Ovoides erethizon* (Jordan & Gilbert).
Panama and neighboring islands.
Arothron erethizon Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 631, Panama.

2182. *Ovoides setosus* (Rosa Smith).
West coast of Mexico; Revillagigedo Islands; Gulf of California.
Tetraodon setosus Rosa Smith, Bull. Cal. Ac. Sci., II, November 13, 1886, 6, "Mexico."

Genus 679. *COLOMESUS* Gill.

Colomesus Gill, Proc. U. S. Nat. Mus. 1884, 422 (*psittacus*).

2183. *Colomesus psittacus* (Bloch & Schneider).
River mouths, Guiana and northern Brazil; Rio Branco, Essequibo, Marañon, and Capim at Para; "West Indies."
Tetrodon psittacus Bloch & Schneider, Syst. Ichth., 505, 1801, "Malabar."

Family CLXXV. *CANTHIGASTERIDÆ*. The Sharp-nosed Puffers.

Genus 680. *CANTHIGASTER* Swainson.

Canthigaster Swainson, Nat. Hist. Fishes, II, 194, 1839 (diagnosis only; no species mentioned; *rostratus* intended).

2184. *Canthigaster punctatissimus* (Günther).
Pacific Coast of America, Gulf of California to Panama.
Tetrodon punctatissimus Günther, Cat., VIII, 302, 1870, Panama.

2185. *Canthigaster rostratus* (Bloch).
West Indian fauna; Pensacola; Madeiras and Bermudas.
Tetrodon rostratus Bloch, Ichth., I, pl. 146, 1782, India.

Family CLXXVI. *DIODONTIDÆ*. The Porcupine-Fishes.

Genus 681. *TRICHODIODON* Bleeker.

Trichodiodon Bleeker, Atlas Ichth., Gymnodontes, 49, 1867 (*pilosus*).

2186. *Trichodiodon pilosus* (Mitchill).
New York.
Diodon pilosus Mitchill, Trans. Lit. Philos. Soc. N. Y., I, 1815, 471, supposed to be from New York Harbor.

Genus 682. **DIODON** Linnaeus. *Porcupine-fishes.*

Diodon Linnaeus, Syst. Nat., ed. x, 335, 1758 (*hystrix*).

2187. **Diodon hystrix** Linnaeus. *Porcupine-fish; Erizo; Puerco Espino; Soursap.*
Tropical seas, north to Lower California, Hawaiian Islands and to Florida.
Diodon hystrix Linnaeus, Syst. Nat., ed. x, 335, 1758, India; after Artedi.

2188. **Diodon holacanthus** Linnaeus.

All warm seas; north to Florida Keys; Lower California and Hawaiian Islands.

Diodon holacanthus Linnaeus, Syst. Nat., ed. x, 335, 1758, India; based on Artedi.

2189. **Diodon maculifer** Kaup.

Cape of Good Hope; Cuba ?

Diodon maculifer Kaup, Wiegmann's Arch., 229, 1855, Cape of Good Hope.

Genus 683. **CHILOMYCTERUS** Bibron. *Burrfishes.*

Chilomycterus Bibron, in Barnville, Revue Zoologique, 40, 1846 (*reticulatus* = *tigrinus*).

Subgenus **CYCLICHTHYS** Kaup.

Cyclichthys Kaup, Wiegmann's Arch., 231, 1855 (*orbicularis*).

2190. **Chilomycterus schœpfi** (Walbaum). *Common Burrfish; Rabbit-fish; Swell Toad.*

Cape Cod to the West Indies.

Diodon schapfi Walbaum, Artedi Pisc., 601, 1792, Long Island; after Schöpfung.

2191. **Chilomycterus spinosus** (Linnaeus).

West Indies and coast of Brazil.

Diodon spinosus Linnaeus, Syst. Nat., ed. x, 335, 1758, India.

2192. **Chilomycterus antennatus** (Cuvier).

West Indies and southward; St. Croix; Jamaica; Porto Rico; Cape of Good Hope.

Diodon antennatus Cuvier, Mém. Mus., IV, 131, pl. 7, 1818.

Subgenus **CHILOMYCTERUS** Bibron.

2193. **Chilomycterus atinga** (Linnaeus). *Atinga.*

West Indies to Bermuda and Florida Keys.

Diodon atinga (misprinted *atinga*) Linnaeus, Syst. Nat., ed. x, 334, 1758, India.

2194. **Chilomycterus californiensis** Eigenmann.

San Pedro, California.

Chilomycterus californiensis Eigenmann, Am. Nat., 1891, 1133, San Pedro, California.

Family CLXXVII. **MOLIDÆ.** The Headfishes.

Genus 684. **MOLA** Cuvier. *Headfishes.*

Mola Cuvier, Tableau Élém. Hist. Nat. Animaux, 323, 1798 (*rotunda* = *mola*).

2195. **Mola mola** (Linnaeus). *Sunfish; Headfish; Mola; Pex Luna.*

Temperate and tropical seas, northward to England, Cape Cod, and San Francisco; rare in the West Indies.

Tetrodon mola Linnaeus, Syst. Nat., ed. x, 334, 412, 1758, Mediterranean.

Genus 685. **RANZANIA** Nardo. *King of the Mackerels.*

Ranzania Nardo, Ann. Sci. Regn. Lombard. Venet., x, 1840, 105 (*truncatus*).

2196. **Ranzania truncata** (Retzius).

Pelagic; occasionally on Atlantic Coast; Bermudas.

Tetrodon truncatus Retzius, Vet. Ak. Nya. Handl., VI, 2, 116, 1785.

Suborder LORICATI.

Family CLXXVIII. SCORPÆNIDÆ. The Rockfishes.

Genus 686. **SEBASTES** Cuvier. *Rosefishes*.*Sebastes* Cuvier, Règne Animal, ed. 2, 11, 166, 1829 (*norregicus* = *marinus*).

2197. **Sebastes marinus** (Linnaeus). *Rosefish*; *Redfish*; *Snapper*; *Hemdurgan*.
North Atlantic, both coasts, south to Faroe Islands, Maine, and in deep water off coast of middle New Jersey.
Perca marina Linnaeus, Syst. Nat., ed. x, 1, 290, 1758, Norway.

Genus 687. **SEBASTOLOBUS** Gill.*Sebastolobus* Gill, Rept. Smithson. Inst. 1880 (1881), 375 (*macrochir*).

2198. **Sebastolobus alascanus** Bean.
Bering Sea; Pacific Coast of Alaska, Washington, Oregon, and California.
Sebastolobus alascanus Bean, Proc. U. S. Nat. Mus. 1890, 44, off Trinity Islands, Alaska, at Albatross Station 2853, 56° N., 154° W., in 159 fathoms.
2199. **Sebastolobus altivelis** Gilbert.
Aleutian Islands, Alaska, and in deep water off the coast of California.
Sebastolobus altivelis Gilbert, Rept. U. S. F. C. 1893 (1896), 410, pl. 23, south of Alaska Peninsula, at Albatross Station 3338, in 625 fathoms.

Genus 688. **SEBASTODES** Gill. *Rockfishes*.*Sebastes* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 165 (*paucispinis*).

Subgenus SEBASTODES GILL.

2200. **Sebastes jordani** Gilbert.
Coast of California in deep water.
Sebastes jordani Gilbert, Rept. U. S. F. C. 1893 (1896), 466, coast of California, at Albatross Stations 2935, 3103, and 3114, in 64 to 124 fathoms.
2201. **Sebastes goodii** Eigenmann & Eigenmann.
San Diego to San Francisco.
Sebastes goodii Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 12, San Diego, California.
2202. **Sebastes paucispinis** (Ayres). *Boccaccio*; *Merou*; *Jack*.
San Diego to San Francisco.
Sebastes paucispinis Ayres, Proc. Cal. Ac. Nat. Sci., 1, 1854, 6, San Francisco.
- Subgenus SEBASTOSOMUS GILL.
Sebastosomus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147 (*melanops*).
2203. **Sebastes flavidus** (Ayres). *Yellow-tail Rockfish*.
San Diego to San Francisco.
Sebastes flavidus Ayres, Proc. Cal. Ac. Sci. 1862, 209, fig. 64, San Francisco.
2204. **Sebastes serranoides** Eigenmann & Eigenmann.
Cortez Banks, off San Diego.
Sebastes serranoides Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 36, Cortez Banks.
2205. **Sebastes melanops** (Girard).
Pacific Coast of America, from Monterey to Sitka.
Sebastes melanops Girard, Proc. Ac. Nat. Sci. Phila., VIII, 1856, 135, Astoria, Oregon.
- Subgenus PRIMOSPINA Eigenmann & Beeson.
Primospina Eigenmann & Beeson, Am. Nat. 1893, 669 (*mystinus*).
2206. **Sebastes ciliatus** (Tilesius).
Coast of Alaska.
Epinephelus ciliatus Tilesius, Mém. Ac. Sci. St. Petersb., IV, 1810, 474, Aleutian Islands.

2207. *Sebastes mystinus* Jordan & Gilbert. *Black Rockfish; Pêche Prêtre; Priest-fish.*
Pacific Coast of America, from Puget Sound to San Diego.
Sebastichthys mystinus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880 (1881), 455, San Francisco.
- Subgenus ACUTOMENTUM Eigenmann & Beeson.
Acutomentum Eigenmann & Beeson, Am. Nat. 1893, 669 (*ovalis*).
2208. *Sebastes entomelas* (Jordan & Gilbert).
Pacific Coast of America, from Port Harford to Monterey Bay.
Sebastichthys entomelas Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 142, Monterey.
2209. *Sebastes rufus* Eigenmann & Eigenmann.
Pacific Coast of America, near San Diego; Cortez Banks.
Sebastes rufus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 13, Point Loma; Cortez Banks.
2210. *Sebastes macdonaldi* (Eigenmann & Beeson).
San Diego, California.
Acutomentum macdonaldi Eigenmann & Beeson, Am. Nat. 1893, 669, San Diego, California.
2211. *Sebastes brevispinis* (Bean).
Coast of Alaska.
Sebastichthys proriger var. *brevispinis* Bean, Proc. U. S. Nat. Mus. 1883, 359, Hussler Harbor, Alaska.
2212. *Sebastes ovalis* (Ayres). *Viwa; Widow-fish.*
Pacific Coast of United States from San Diego to San Francisco.
Sebastes ovalis Ayres, Proc. Cal. Ac. Sci. 1862, 209-212, fig. 65, San Francisco.
2213. *Sebastes eigenmanni* Cramer.
Coast of California.
Sebastes eigenmanni Cramer, Proc. Cal. Ac. Sci. 1896, 239, Monterey, California.
2214. *Sebastes hopkinsi* Cramer.
Monterey Bay, California.
Sebastes hopkinsi Cramer, Proc. Cal. Ac. Sci. 1895, with plate, Monterey Bay, California.
2215. *Sebastes alutus* (Gilbert).
Pacific Coast of America, from Bering Sea to Santa Barbara.
Sebastichthys alutus Gilbert, Proc. U. S. Nat. Mus. 1890, 76, Santa Barbara Islands, California.
2216. *Sebastes proriger* (Jordan & Gilbert).
San Diego to San Francisco.
Sebastichthys proriger Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 327, Monterey, California.
- ROSCOLA Jordan & Evermann.
Roscola Jordan & Evermann, new subgenus (*pinniger*).
2217. *Sebastes pinniger* (Gill). *Orange Rockfish.*
Pacific Coast of America, from San Diego to Puget Sound.
Sebastosomus pinniger Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147, San Francisco.
2218. *Sebastes miniatus* (Jordan & Gilbert). *Rasciera; Rasher.*
Pacific Coast of America, from San Francisco to San Diego.
Sebastichthys miniatus Jordan & Gilbert, Proc. U. S. N. M. 1880, 70, Monterey, California.
2219. *Sebastes atrorubens* Gilbert.
Monterey, California.
Sebastes atrorubens Gilbert, Proc. Cal. Ac. Sci. 1896, Monterey, California.

- 2220. *Sebastes atrovirens*** (Jordan & Gilbert).
Coast of California, from San Diego to San Francisco.
Sebastichthys atrovirens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 289,
Monterey, California.
- Subgenus **EOSEBASTES** Jordan & Evermann.
Eosebastes Jordan & Evermann, new subgenus (*aurora*).
- 2221. *Sebastes saxicola*** (Gilbert).
Southern California, Santa Barbara Islands.
Sebastichthys saxicola Gilbert, Proc. U. S. Nat. Mus. 1890, 78, Santa Barbara
Islands at Albatross Stations 2893, 2907, and others, in 44 to 155 fathoms.
- 2222. *Sebastes crameri*** Jordan.
Coast of Oregon.
Sebastes crameri Jordan, Proc. U. S. Nat. Mus. 1896, coast of Oregon, at
Albatross Station 3091.
- 2223. *Sebastes semicinctus*** Gilbert.
Coast of California.
Sebastes semicinctus Gilbert, Proc. U. S. Nat. Mus. 1896, Santa Barbara
Channel, California.
- 2224. *Sebastes diploproa*** (Gilbert).
Coast of southern California at Coronado Islands.
Sebastichthys diploproa Gilbert, Proc. U. S. Nat. Mus. 1890, 79, Coronado
Islands at Albatross Station 2935, in 124 fathoms.
- 2225. *Sebastes aurora*** (Gilbert).
Coast of California about the Santa Barbara Islands.
Sebastichthys aurora Gilbert, Proc. U. S. Nat. Mus. 1890, 80, Santa Barbara
Islands at Albatross Stations 2948 and 2960, in 266 and 267 fathoms.
- 2226. *Sebastes melanostomus*** Eigenmann & Eigenmann.
Coast of California to Alaska.
Sebastes melanostomus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. (2),
III, 1890, 17, Point Loma, near San Diego, California.
- Subgenus **SEBASTOMUS** Gill.
Sebastomus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 147 (*rosaceus*).
- 2227. *Sebastes ruberrimus*** Cramer. *Red Rockfish; Tambor.*
Pacific Coast of America, from San Diego to Puget Sound.
Sebastes ruberrimus Cramer, Proc. Cal. Ac. Sci. 1895, 597, pls. 62, 63, and
69, Monterey, California.
- 2228. *Sebastes constellatus*** (Jordan & Gilbert). *Spotted Rockfish.*
Coast of California, from San Diego to San Francisco.
Sebastichthys constellatus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 295,
Santa Barbara Channel; San Francisco.
- 2229. *Sebastes umbrosus*** (Jordan & Gilbert).
Coast of California, Point Conception to Coronado Islands.
Sebastichthys umbrosus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 410,
Santa Barbara.
- 2230. *Sebastes rosaceus*** (Girard). *Corsair.*
Pacific Coast of United States, from San Diego to San Francisco.
Sebastes rosaceus Girard, Proc. Ac. Nat. Sci. Phila., VIII, 1854, 146, San Diego,
San Francisco.
- 2231. *Sebastes ayresii*** Gilbert & Cramer.
Coast of southern California at Cortez Banks, near San Diego.
Sebastes ayresii Gilbert & Cramer, Proc. U. S. Nat. Mus. 1896, Cortez
Banks, near San Diego, California.

2232. *Sebastes rhodochloris* (Jordan & Gilbert). *Flyfish*.
Off Monterey and San Francisco.
Sebastichthys rhodochloris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 144, Monterey.
2233. *Sebastes eos* Eigenmann & Eigenmann.
Coast of California at Point Loma, near San Diego.
Sebastes eos Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 18, 1890, Point Loma, near San Diego, California.
2234. *Sebastes gillii* Eigenmann & Eigenmann.
Coast of California at Point Loma, near San Diego.
Sebastes gillii Eigenmann & Eigenmann, Am. Nat., February, 1891, 154, Point Loma, near San Diego, California.
2235. *Sebastes chlorostictus* (Jordan & Gilbert). *Pesca Vermiglia*.
San Diego; Monterey; San Francisco.
Sebastichthys chlorostictus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 294, Monterey, California.
2236. *Sebastes rupestris* (Gilbert).
Coast of California about the Santa Barbara Islands.
Sebastichthys rupestris Gilbert, Proc. U. S. Nat. Mus. 1890, 76, Santa Barbara Islands, at Albatross Station 2946, in 150 fathoms.
Subgenus HISPANISCUS Jordan & Evermann.
Hispaniscus Jordan & Evermann, new subgenus (*rubrivinctus*).
2237. *Sebastes sinensis* (Gilbert).
Gulf of California.
Sebastichthys sinensis Gilbert, Proc. U. S. Nat. Mus. 1890, 81, Gulf of California, at Albatross Station 3015, in 145 fathoms.
2238. *Sebastes zacentrus* (Gilbert).
Coast of California.
Sebastichthys zacentrus Gilbert, Proc. U. S. Nat. Mus. 1890, 77, Santa Barbara Islands, at Albatross Stations 2893 and 2946, in 145 and 150 fathoms.
2239. *Sebastes elongatus* (Ayres). *Reina*.
California coast, from San Diego to San Francisco.
Sebastes elongatus Ayres, Proc. Cal. Ac. Sci., 11, 1859, 26, fig. 9, San Francisco.
2240. *Sebastes levis* (Eigenmann & Eigenmann).
Coast of California, from San Diego to Monterey.
Sebastichthys levis Eigenmann & Eigenmann, Notes from the San Diego Biol. Lab., 1, 6, 1889, San Diego, California.
2241. *Sebastes rubrivinctus* (Jordan & Gilbert). *Spanish Flag*.
California coast, from San Diego to Monterey.
Sebastichthys rubrivinctus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 291, Santa Barbara Channel.
Subgenus AUCTOSPINA Eigenmann & Beeson.
Auctospina Eigenmann & Beeson, Am. Nat. 1893, 670 (*auriculatus*).
2242. *Sebastes auriculatus* (Girard). *Brown Rockfish*.
Pacific Coast of America, from Cape Mendocino to Cerros Island.
Sebastes auriculatus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131, 146, San Francisco.
- 2242a. *Sebastes auriculatus dallii* (Eigenmann & Beeson).
Pacific Coast of America, from San Francisco to Puget Sound.
Pteropodus dallii Eigenmann & Beeson, Amer. Nat., January, 1894, 66, San Francisco.
Subgenus PTEROPODUS Eigenmann & Beeson.
Pteropodus Eigenmann & Beeson, Am. Nat. 1893, 670 (*maliger*).
2243. *Sebastes rastrelliger* (Jordan & Gilbert). *Grass Rockfish*.
California coast, from San Diego to San Francisco.
Sebastichthys rastrelliger Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 296, Monterey.

2244. *Sebastes caurinus* (Richardson).
Pacific Coast of America, from Puget Sound to Sitka.
Sebastes caurinus Richardson, Voy. Sulphur, Ichthyology, 77, pl. 41, fig. 1,
1845, Sitka.
2245. *Sebastes vexillaris* (Jordan & Gilbert).
California coast, from San Diego to Mendocino.
Sebastichthys vexillaris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 292, Santa
Barbara Channel; San Francisco.
2246. *Sebastes maliger* (Jordan & Gilbert). *Yellow-backed Rockfish*.
Pacific Coast of America, from Monterey to Sitka.
Sebastichthys maliger Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 322, San
Francisco.
2247. *Sebastes gilberti* Cramer.
Coast of California.
Sebastes gilberti Cramer, Proc. Cal. Ac. Sci. 1896, 241, with plate, San Fran-
cisco.
2248. *Sebastes carnatus* (Jordan & Gilbert). *Flesh-colored Rockfish*.
California coast, from San Diego to San Francisco.
Sebastichthys carnatus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 73, Mon-
terey, California.
2249. *Sebastes chrysomelas* (Jordan & Gilbert). *Black-and-yellow Rockfish*.
Pacific Coast of America, from Puget Sound to San Diego.
Sebastichthys chrysomelas Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 455,
465, Monterey, California.
2250. *Sebastes nebulosus* (Ayres). *Yellow-spotted Rockfish*.
Pacific Coast, Vancouver Island to Point Conception.
Sebastes nebulosus Ayres, Proc. Cal. Ac. Sci. 1, 1854, 5, San Francisco.
- Subgenus SEBASTICHTHYS GILL.
Sebastichthys Gill, Proc. Ac. Nat. Sci. Phila. 1862, 329 (*nigrocinctus*).
2251. *Sebastes serriceps* (Jordan & Gilbert). *Treefish*.
Coast of California, from Point Reyes to Cerros Island.
Sebastichthys serriceps Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 38, Santa
Barbara and Santa Catalina islands, California.
2252. *Sebastes nigrocinctus* (Ayres). *Black-banded Rockfish*.
Pacific Coast of America, from Monterey to Vancouver Island.
Sebastes nigrocinctus Ayres, Proc. Cal. Ac. Sci. II, 1859, 25, 217, fig. 6, San
Francisco.
- Genus 689. SEBASTOPSIS Gill.
Sebastopsis Gill, Proc. Ac. Nat. Sci. Phila. 1862, 278 (*polylepis*).
2253. *Sebastopsis xyris* Jordan & Gilbert.
West coast of Mexico.
Sebastopsis xyris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 369, Cape San
Lucas, Lower California.
- Genus 690. HELICOLENUS Goode & Bean.
Helicolenus Goode & Bean, Oceanic Ichthyology, 248, 1896 (*dactylopterus*).
2254. *Helicolenus dactylopterus* (De la Roche). *Seran Imperial; Fanegal; Car-*
donniera; Scorfanudi; Funal; Crabra.
Deep waters of Atlantic Coast from Narragansett to Chesapeake Bay.
Scorpana dactyloptera De la Roche, Ann. Mus., XIII, 1809, pl. 22, fig. 2, Ivica,
Barcelona.
2255. *Helicolenus maderensis* Goode & Bean. *Boca Negra; Pai de Gato*.
Eastern coast of United States, from New York to Cape Hatteras.
Helicolenus maderensis Goode & Bean, Oceanic Ichth., 250, 1896, Madeira.

Genus 691. *SCORPÆNA* (Artedi) Linnæus.

Scorpena Artedi, in Linnæus, Syst. Nat., ed. x, 266, 1758 (*porcus*).

2256. *Scorpena agassizii* Goode & Bean.
Mid-ocean east of Cuba.
Scorpena agassizii Goode & Bean, Oceanic Ichth., 247, fig. 243, 1896, latitude 32° 13' N., longitude 39° 10' W.
2257. *Scorpena cristulata* Goode & Bean.
Atlantic Ocean, off coast of Georgia.
Scorpena cristulata Goode & Bean, Occ. Ichth., 247, fig. 242, 1896, off Georgia.
2258. *Scorpena brasiliensis* Cuvier & Valenciennes.
Atlantic Coast, from Charleston to Rio Janeiro.
Scorpena brasiliensis Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 305, 1829, Brazil.
2259. *Scorpena histrio* Jenyns.
Pacific Coast of America, Panama to Juan Fernandez; Galapagos Islands.
Scorpena histrio Jenyns, Voyage Beagle, Fishes, 35, pl. 8, 1842, Chatham Island, Galapagos Archipelago.
2260. *Scorpena pannosa* Cramer.
Panama.
Scorpena pannosa Cramer, Proc. U. S. Nat. Mus., 1896, with plate, Panama.
2261. *Scorpena guttata* Girard. *Scorpene*; *Scorpion*; *Sculpin*.
Coast of California, from Monterey to Ascension Island.
Scorpena guttata Girard, Proc. Ac. Nat. Sci. Phila. 1854, 145, Monterey.
2262. *Scorpena plumieri* Bloch. *Rascacio*; *Poison Grouper*.
West Indies and Brazil, north to Florida.
Scorpena plumieri Bloch, Nya. Handl. Stockh., x, 234, 1789, Martinique.
2263. *Scorpena mystes* Jordan & Starks. *Lapon*.
Coast of Mexico.
Scorpena mystes Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 491, pl. 52, Mazatlan, Mexico.
2264. *Scorpena grandicornis* Cuvier & Valenciennes. *Lion-fish*; *Poison Grouper*.
Florida Keys to Brazil.
Scorpena grandicornis Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 309, 1829, Martinique, Porto Rico, Havana, San Domingo.
2265. *Scorpena russula* Jordan & Bollman.
Pacific Coast of Colombia.
Scorpena russula Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 165, Pacific Coast of Colombia.
2266. *Scorpena sonora* Jenkins & Evermann.
Guaymas, Gulf of California, and Santa Margarita Island.
Scorpena sonora Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 150, Guaymas, Sonora.
2267. *Scorpena inermis* Cuvier & Valenciennes.
West Indies, north to Florida.
Scorpena inermis Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 311, 1829, Martinique.
- Genus 692. *PONTINUS* Poey.
Pontinus Poey, Memorias, II, 172, 1860 (*castor*).
2268. *Pontinus macrolepis* Goode & Bean.
Yucatan.
Pontinus macrolepis Goode & Bean, Ocean. Ichth., 257, fig. 247, 1896, off Yucatan.
2269. *Pontinus castor* Poey.
Havana.
Pontinus castor Poey, Memorias, II, 173, 1860, Havana.

2270. *Pontinus pollux* Poëy.

Havana.

Pontinus pollux Poey, *Memorias*, II, 174, 1860, Havana.2271. *Pontinus rathbuni* Goode & Bean.

Coast of North Carolina.

Pontinus rathbuni Goode & Bean, *Ocean. Ichth.*, 255, fig. 245, 1896, off Cape Hatteras.2272. *Pontinus longispinis* Goode & Bean.

Coast of western Florida.

Pontinus longispinis Goode & Bean, *Ocean. Ichth.*, 258, fig. 246, 1896, west coast of Florida, lat. 28° 36' N., long. 85° 33' 30" W., in 111 fathoms.2273. *Pontinus sierra* (Gilbert).

Gulf of California.

Scorpwana (Sebastoplus) sierra Gilbert, *Proc. U. S. Nat. Mus.* 1890, 82, Gulf of California, at Albatross Stations 2996 and 3011 in 112 and 71 fathoms.Genus 693. **SETARCHES** Johnson.*Setarches* Johnson, *Proc. Zool. Soc. Lond.* 1862, 177 (*guntheri*).2274. *Setarches parmatus* Goode.

Coasts of Rhode Island, North Carolina, and western Florida, in deep water.

Setarches parmatus Goode, *Proc. U. S. Nat. Mus.*, III, 1880, 480, off coast of Rhode Island.Family CLXXIX. **HEXAGRAMMIDÆ.**Genus 694. **PLEUROGRAMMUS** Gill. *Atka Mackerels.**Pleurogrammus* Gill, *Proc. Ac. Nat. Sci. Phila.* 1861, 166 (*monopterygius*).2275. *Pleurogrammus monopterygius* (Pallas). *Atka Mackerel.*

North Pacific about Atka and other of the Aleutian Islands.

Labrax monopterygius Pallas, *Mém. Ac. Sci. St. Petersb.*, II, 1810, 391, Unalaska.Genus 695. **HEXAGRAMMOS** Steller.*Hexagrammos* Steller, in Tilesius, *Act. Ac. Petrop.*, II, 335, 1810 (*asper*).2276. *Hexagrammos decagrammus* (Pallas). *Rock-trout; Boregat; Bodieron.*

North Pacific, from Point Conception to southern Alaska.

Labrax decagrammus Pallas, *Mém. Ac. Petersb.*, II, 1810, 386, pl. 22, fig. 2, Elias Bay.2277. *Hexagrammos scaber* Bean.

Coast of Alaska.

Hexagrammos scaber Bean, *Proc. U. S. Nat. Mus.* 1881, 154, coast of Alaska.2278. *Hexagrammos hexagrammus* Pallas. *Starling.*

Pacific Coast of United States, from Unalaska to San Francisco.

Labrax hexagrammus Pallas, *Mém. Ac. Petersb.*, II, 395, pl. 23, fig. 3, 1810, Kamchatka.2279. *Hexagrammos ordinatus* (Cope).

Coast of Alaska.

Chirus ordinatus Cope, *Proc. Amer. Philos. Soc. Phila.* 1873, 28, Unalaska.2280. *Hexagrammos asper* Steller. *Red Rock-trout.*

Alaska to Monterey.

Hexagrammos asper Steller, in Tilesius, *Act. Ac. Petrop.*, II, 340, 1810, Port Peter and Paul, Kamchatka.2281. *Hexagrammos octogrammus* (Pallas).

About Kamchatka and Aleutian Islands.

Labrax octogrammus Pallas, *Zoogr. Rosso-Asiat.*, III, 283, 1811, Kamchatka and Aleutian Islands; doubtful species.

Genus 696. **GRAMMATOPLEURUS** Gill.*Grammatopleurus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*lagocephalus*).2282. **Grammatopleurus lagocephalus** (Pallas).

Kuril Islands.

Labrax lagocephalus Pallas, Mém. Ac. Petersb., II, 384, 1810, Kuril Islands; doubtful species.Genus 697. **OPHIODON** Girard.*Ophiodon* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133 (*elongatus*).2283. **Ophiodon elongatus** Girard. *Cultus-cod*; *Blue-cod*; *Buffalo-cod*; *Ling*.

Pacific Coast from Alaska to Santa Barbara.

Ophiodon elongatus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 133, San Francisco.Genus 698. **ZANIOLEPIS** Girard.*Zaniolepis* Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202 (*latipinnis*).2284. **Zaniolepis latipinnis** Girard.

Coast of California, from San Francisco northward.

Zaniolepis latipinnis Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202, Fort Steila-coom, Puget Sound.2285. **Zaniolepis frenatus** Eigenmann.

Shore banks of southern California.

Zaniolepis frenatus Eigenmann, West American Scientist, November 9, 1889, 10, Cortez Banks, off San Diego.Genus 699. **OXYLEBIUS** Gill.*Oxylebius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 277 (*pictus*).2286. **Oxylebius pictus** Gill.

From Monterey northward to Puget Sound.

Oxylebius pictus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 277, California, no definite locality given.Genus 700. **ERILEPIS** Gill.*Erilepis* Gill, Science, January 26, 1894, 54 (*zonifer*).2287. **Erilepis zonifer** (Lockington).

Monterey Bay, California.

Myriolepis zonifer Lockington, Proc. U. S. Nat. Mus. 1880, 248, Monterey Bay.Genus 701. **ANOPILOPOMA** Ayres.*Anoplopoma* Ayres, Proc. Cal. Ac. Sci. 1859, 27 (*merlangus* = *fimbria*).2288. **Anoplopoma fimbria** (Pallas). *Beshow*; *Coal-fish*.

Monterey to Alaska.

Gadus fimbria Pallas, Zoogr. Rosso-Asiat., III, 200, 1811, no definite locality, probably the Aleutian Islands.

CLXXX. Family COTTIDÆ. The Sculpins.

Genus 702. **JORDANIA** Starks.*Jordania* Starks, Proc. Ac. Nat. Sci. Phila. 1895, 410 (*zonope*).2289. **Jordania zonope** Starks.

Puget Sound.

Jordania zonope Starks, Proc. Ac. Nat. Sci. Phila. 1895, 410, Port Orchard, Puget Sound.Genus 703. **PARICELINUS** Eigenmann & Eigenmann.*Paricelinus* Eigenmann & Eigenmann, West American Scientist, November 8, 1889, 131 (*hopliticus*).2290. **Paricelinus hopliticus** Eigenmann & Eigenmann.

Cortez Banks, off San Diego, California.

Paricelinus hopliticus Eigenmann & Eigenmann, West American Scientist, Nov. 9, 1889, 131, Cortez Banks, California.

2291. *Paricelinus thoburni* Gilbert.

Coast of Oregon.

Paricelinus thoburni Gilbert, Rept. U. S. Fish Com. 1893 (1896), 432, pl. 30, fig. 2, Albatross Station 3350, on coast of Oregon, in 75 fathoms.Genus 704. *SCORPÆNICHTHYS* Girard.*Scorpenichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131 (*marmoratus*).2292. *Scorpenichthys marmoratus* (Ayres). *Cubezones*.

Pacific Coast of America from Puget Sound to San Diego.

Hemitripteris marmoratus Ayres, Proc. Cal. Ac. Sci. 1854, 4, San Francisco.Genus 705. *CHITONOTUS* Lockington.*Chitonotus* Lockington, Proc. U. S. Nat. Mus. 1881, 141 (*megacephalus*).2293. *Chitonotus pugetensis* (Steindachner).

Puget Sound.

Arctedius pugetensis Steindachner, Ichth. Beitr., v, 133, pl. 14, fig. 2, 1876, Puget Sound.Genus 706. *TARANDICHTHYS* Jordan & Evermann.*Tarandichthys* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 225 (*filamentosus*).2294. *Tarandichthys cavifrons* (Gilbert).

Coast of southern California.

Icelinus cavifrons Gilbert, Proc. U. S. Nat. Mus. 1890, 83, off Santa Barbara Islands, at Albatross Stations 2907 and 2945, in 44 and 30 fathoms.2295. *Tarandichthys filamentosus* (Gilbert).

Coast of southern California.

Icelinus filamentosus Gilbert, Proc. U. S. Nat. Mus. 1890, 85, off Santa Barbara Islands, at Albatross Stations 2893 and 2959, in 145 and 55 fathoms.2296. *Tarandichthys tenuis* (Gilbert).

Coast of southern California.

Icelinus tenuis Gilbert, Proc. U. S. Nat. Mus. 1890, 86, off Santa Barbara Islands, at Albatross Stations 2893, 2946, and others, in 45 to 150 fathoms.Genus 707. *ICELINUS* Jordan.*Icelinus* Jordan, Cat. Fish. N. A., 110, 1885 (*quadriseriatus*).2297. *Icelinus fimbriatus* Gilbert.

Southern California.

Icelinus fimbriatus Gilbert, Proc. U. S. Nat. Mus. 1890, 87, off Santa Barbara Islands, at Albatross Stations 2893 and 2975, in 145 and 36 fathoms.2298. *Icelinus oculatus* Gilbert.

Southern California.

Icelinus oculatus Gilbert, Proc. U. S. Nat. Mus. 1890, 87, off Santa Barbara Islands, at Albatross Station 2935, in 124 fathoms.2299. *Icelinus borealis* Gilbert.

Coast of Alaska, north and south of Aleutian Islands, and in Bristol Bay.

Icelinus borealis Gilbert, Rept. U. S. Fish Com. 1893 (1896), 415, pl. 25, Aleutian Islands and Bristol Bay, at Albatross Stations 3213, 3214, and others, in 11 to 121 fathoms.2300. *Icelinus quadriseriatus* (Lockington).

Off San Francisco, between Point Reyes and Golden Gate.

Arctedius quadriseriatus Lockington, Proc. U. S. Nat. Mus. 1879, 330, off San Francisco.Genus 708. *ASTROLYTES* Jordan & Starks.*Astrolytes* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 807 (*fenestralis*).2301. *Astrolytes notospilotus* (Girard).

Coast of California from Straits of Fuca southward; abundant at Santa Barbara and Puget Sound.

Arctedius notospilotus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 134, Tomales Bay, California.

- 2302. *Astrolytes fenestralis*** (Jordan & Gilbert).
Puget Sound.
Artedius fenestralis Jordan & Gilbert, Proc. U. S. N. M. 1882, 578, Puget Sound.
- Genus 709. ARTEDIUS** Girard.
Artedius Girard, Proc. Ac. Nat. Sci. Phila. 1856, 134 (*lateralis*).
- 2303. *Artedius lateralis*** (Girard).
Pacific Coast of North America, from Puget Sound to San Luis Obispo.
Scorpanichthys lateralis Girard, Proc. Ac. Nat. Sci. Phila. 1854, 145, San Luis Obispo, California.
- Genus 710. ARTEDIELLUS** Jordan.
Artediellus Jordan, Cat. Fish. N. A., 110, 1885 (*uncinatus*).
- 2304. *Artediellus uncinatus*** (Reinhardt).
Arctic Europe west to Greenland.
Cottus uncinatus Reinhardt, Vid. Selsk. Natur. Math. Afh. 1833, 44.
- 2305. *Artediellus atlanticus*** Jordan & Evermann.
Labrador to Cape Cod.
Artediellus atlanticus Jordan & Evermann, Fishes North and Middle America, 1896, Massachusetts Bay.
- 2306. *Artediellus pacificus*** Gilbert.
Coast of Alaska; in Bristol Bay, south of Sannak Island, and north of Unalaska.
Artediellus pacificus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 416, Unalaska, Sannak, Bristol Bay, at Albatross Station 3216, south of Sannak Island, many other stations in Bristol Bay, and station 3323 north of Unalaska, in 8 to 61 fathoms.
- Genus 711. RUSCARIUS** Jordan & Starks.
Ruscarius Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 805 (*meanyi*).
- 2307. *Ruscarius meanyi*** Jordan & Starks.
Puget Sound, at Port Orchard, near Seattle.
Ruscarius meanyi Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 805, pl. 80, Port Orchard, Puget Sound.
- Genus 712. RASTRINUS** Jordan & Evermann.
Rastrinus Jordan & Evermann, new genus (*scutigera*).
- 2308. *Rastrinus scutigera*** (Bean).
South of the Alaskan Peninsula.
Icelus scutigera Bean, Proc. U. S. Nat. Mus. 1890, 41, Trinity Islands, Alaska, at Albatross Station 2853, in 159 fathoms.
- Genus 713. ICELUS** Kroyer.
Icelus Kroyer, Natur. Tidsskr., 1, 253, 1845 (*hamatus*).
- 2309. *Icelus bicornis*** (Reinhardt).
Arctic seas, circumpolar; Spitzbergen to northern Russia, Finland, Alaska, Greenland, Labrador, and Cape Cod.
Cottus bicornis Reinhardt, Vid. Selsk. Natur. og Math. Afh., VIII, LXXV, Greenland.
- 2310. *Icelus spiniger*** Gilbert.
Coast of Alaska, in the vicinity of Unalaska Island and in Bristol Bay.
Icelus spiniger Gilbert, Rept. U. S. Fish Com. 1893 (1896), 406, pl. 24, fig. 1, Bristol Bay and Unalaska, at Albatross Stations 3216, 3223, and many others, in 17 to 121 fathoms.
- 2311. *Icelus euryops*** Bean.
Bering Sea, off Trinity Islands.
Icelus euryops Bean, Proc. U. S. Nat. Mus. 1890, 41, off Trinity Islands, at Albatross Station 2853, in 159 fathoms.
- 2312. *Icelus vicinalis*** Gilbert.
Bristol Bay, Alaska.
Icelus vicinalis Gilbert, Rept. U. S. Fish Com. 1893 (1896), 413, Bristol Bay at Albatross Stations 3324, 3330, 3331, and 3332, in 109 to 406 fathoms.

2313. *Icelus canaliculatus* Gilbert.

Bering Sea, north of Unalaska.

Icelus canaliculatus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 412, pl. 24, fig. 2, off Unalaska, at Albatross Station 3329, in 399 fathoms.2314. *Icelus australis* Eigenmann & Eigenmann.

Cortez Banks, off San Diego.

Icelus australis Eigenmann & Eigenmann, West Amer. Sci. 1889, 131, Cortez Banks, California.Genus 714. **RADULINUS** Gilbert.*Radulinus* Gilbert, Proc. U. S. Nat. Mus. 1890, 88 (*asprellus*).2315. *Radulinus asprellus* Gilbert.

Coast of Oregon and Washington, and in Puget Sound.

Radulinus asprellus Gilbert, Proc. U. S. Nat. Mus. 1890, 88, off Oregon and Washington, at Albatross Stations 3046, 3057, and others, in 43 to 77 fathoms.Genus 715. **TRIGLOPS** Reinhardt.*Triglops* Reinhardt, Vid. Selsk. Natur. Math. Afh., v, LII (*pingeli*).2316. *Triglops xenostethus* Gilbert.

Bering Sea, north of Unalaska Island.

Triglops xenostethus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 429, pl. 29, fig. 2, north of Unalaska, at Albatross Station 3220, in 34 fathoms.2317. *Triglops pingeli* Reinhardt.

North Atlantic, from Spitzbergen and western Norway to Greenland and south to Cape Cod and Christiansund.

Triglops pingeli Reinhardt, Vid. Selsk. Natur., v, LII.2318. *Triglops beani* Gilbert.

Alaska, both north and south of the Aleutian Islands and in Bristol Bay.

Triglops beani Gilbert, Rept. U. S. Fish Com. 1893 (1896), 426, pl. 28, fig. 1, Aleutian Islands and Bristol Bay, at Albatross Stations 3214, 3217, and many others, in 7½ to 42 fathoms.2319. *Triglops scepticus* Gilbert.

Aleutian Islands, south of Sannak and north of Unalaska Island.

Triglops scepticus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 428, pl. 28, fig. 2, Aleutian Islands, at Albatross Stations 3215, 3222, and others, in 43 to 138 fathoms.Genus 716. **PRIONISTIUS** Bean.*Prionistius* Bean, Proc. U. S. Nat. Mus. 1883, 355 (*macellus*).2320. *Prionistius macellus* Bean.

British Columbia, in Carter Bay.

Prionistius macellus Bean, Proc. U. S. Nat. Mus. 1883, 355, Carter Bay, British Columbia.Genus 717. **ELANURA** Gilbert.*Elanura* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 429 (*forficata*).2321. *Elanura forficata* Gilbert.

Aleutian Islands, south of Sannak and north of Unimak Island.

Elanura forficata Gilbert, Rept. U. S. Fish Com. 1893 (1896), 430, pl. 30, fig. 1, Aleutian Islands, at Albatross Stations 3213, 3214, and 3222, in 38 to 50 fathoms.Genus 718. **MELLETES** Bean.*Melletes* Bean, Proc. U. S. Nat. Mus. 1879, 354 (*papilio*).2322. *Melletes papilio* Bean.

Aleutian Islands.

Melletes papilio Bean, Proc. U. S. Nat. Mus. 1879, 354, St. Paul Island, Alaska.

- Genus 719. **HEMILEPIDOTUS** Cuvier.
Hemilepidotus Cuvier, Règne Animal, ed. 2, II, 165, 1829 (*hemilepidotus*).
2323. **Hemilepidotus hemilepidotus** (Tilesius).
 Alaska to San Francisco; abundant in Puget Sound.
Cottus hemilepidotus Tilesius, Mém. Ac. Pétersb., III, 1810, 262, Sea of Okhotsk.
2324. **Hemilepidotus jordani** Bean.
 Alaska; Unalaska.
Hemilepidotus jordani Bean, Proc. U. S. Nat. Mus. 1881, 153, Unalaska.
- Genus 720. **CALYCILEPIDOTUS** Ayres.
Calycilepidotus Ayres, Proc. Cal. Ac. Sci., I, 1855, 76 (*spinus*).
2325. **Calycilepidotus spinus** Ayres.
 Coast of California; known only from about Monterey and San Francisco.
Calycilepidotus spinus Ayres, Proc. Cal. Ac. Sci., I, 1855, 76, San Francisco.
- Genus 721. **ENOPHRYS** Swainson.
Enophrys Swainson, Classn. Fish., II, 271, 1839 (*claviger*).
- Subgenus **ASPICOTTUS** Girard.
Aspicottus Girard, Proc. Ac. Nat. Sci. Phila., 1854, 130 (*bison*).
2326. **Enophrys bison** (Girard).
 San Francisco to Alaska; abundant about Puget Sound.
Aspicottus bison Girard, Proc. Ac. Nat. Sci. Phila. 1854, 130, Fort Steilacoom.
- Subgenus **ENOPHRYS** Swainson.
2327. **Enophrys claviger** (Cuvier & Valenciennes).
 Bering Sea.
Cottus claviger Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 195, 1829, Kamchatka.
- Genus 722. **CERATOCOTTUS** Gill.
Ceratocottus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 165 (*diceraus*).
2328. **Ceratocottus diceraus** (Pallas).
 Alaska and Kamchatka.
Cottus diceraus Pallas, Nov. Act. Petropol., 1783, 354, pl. 10, fig. 7, Petropaulski, Kamchatka.
- Genus 723. **COTTUS** (Artedi) Linnæus. *Miller's Thumbs*.
Cottus Linnæus, Syst. Nat., ed. x, 264, 1758 (*gobio*).
- Subgenus **PEGEDICTIS** Rafinesque.
Pegediotis Rafinesque, Ichth. Obiensis, 85, 1820 (*ictalops*).
2329. **Cottus asper** Richardson. *Prickly Bullhead*.
 Streams of the Cascade Range, from Vancouver Island to Oregon.
Cottus asper Richardson, Fauna Bor.-Amer., Fish., 295, 1836, Columbia River at Fort Vancouver.
2330. **Cottus gulosus** (Girard).
 Streams of the Coast Range in California, south to Point Conception.
Cottopsis gulosus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 129, San Mateo Creek and San Joaquin River, California.
2331. **Cottus rhotheus** (Rosa Smith).
 Hangman Creek, Tekoa, Washington, and elsewhere in Columbia River basin.
Uranidea rhothea Rosa Smith, Proc. U. S. Nat. Mus. 1882, 347, Spokane Falls, Washington.
2332. **Cottus shasta** Jordan & Starks.
 Upper Sacramento Basin, about Mount Shasta.
Cottus shasta Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 224, McCloud River, Baird, Shasta County, California.

- 2333. *Cottus semiscaber* (Cope). *Rocky Mountain Bullhead.*
Rocky Mountain region in clear streams on both slopes; abundant in Colorado, northern New Mexico, Wyoming, Montana, Idaho, Utah, eastern Washington, and Oregon.
Cottopsis semiscaber Cope, Hayden Surv. Mont., 1871, 476, Fort Hall, Idaho.**
- 2334. *Cottus punctulatus* (Gill).
Headwaters of Green River, Wyoming.
Potamocottus punctulatus Gill, Proc. Bost. Soc. Nat. Hist., VIII, 1861, 40, Bridger Pass, Wyoming.**
- 2335. *Cottus ictalops* (Rafinesque). *Miller's Thumb; Blob; Muffle-jaw; Bullhead; Spring-fish.*
Middle and Northern States, east of the Dakotas and Nebraska, southward along the Alleghanies to North Carolina and northern Alabama.
Pegedictis ictalops Rafinesque, Ichth. Obiensis, 85, 1820, spring near Lexington, Kentucky.
Subgenus TAURIDEA Jordan & Evermann.
Tauridea Jordan & Evermann, Fishes N. and M. Amer., 1896 (*ricei*).**
- 2336. *Cottus ricei* (Nelson).
Lake Michigan, near Evanston, Illinois.
Cottopsis ricei Nelson, Bull. Ill. Mus. Nat. Hist., 40, 1876, Lake Michigan at Evanston.
Subgenus COTTUS (Arted) Linnaeus.**
- 2337. *Cottus onychus* Eigenmann & Eigenmann.
Saskatchewan Basin.
Cottus onychus Eigenmann & Eigenmann, Am. Nat., November, 1892, 963, Bow River, at Calgary, a tributary of the South Saskatchewan, Alberta Territory.**
- 2338. *Cottus pollicaris* (Jordan & Gilbert).
Lake Michigan.
Uranidea pollicaris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 222, Lake Michigan, off Racine, Wisconsin.**
- 2339. *Cottus cognatus* Richardson. *Great Bear Lake Bullhead.*
Great Bear Lake, British America.
Cottus cognatus Richardson, Fauna Bor.-Amer., III, 40, 1836, Great Bear Lake.**
- 2340. *Cottus perplexus* Gilbert & Evermann.
Skookumchuck and Newaukum rivers, near Chehalis, Washington.
Cottus perplexus Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 202, pl. 20, fig. 1, Skookumchuck River, near Chehalis, Washington.**
- 2341. *Cottus aleuticus* Gilbert.
Unalaska, in small stream passing through the village of Unalaska; Departure Bay, Vancouver Island.
Cottus aleuticus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 418, streams of Unalaska; also in Departure Bay, Vancouver Island.**
- 2342. *Cottus minutus* Pallas.
Island of Talek, near Tanisk, Sea of Okhotsk.
Cottus minutus Pallas, Zoogr. Rosso-Asiat., III, 145, 1811, Talek Island, Sea of Okhotsk.**
- 2343. *Cottus beldingi* Eigenmann & Eigenmann.
Streams of Columbia River basin, south to Lake Lahontan; abundant east of the Cascades and in Lake Tahoe.
Cottus beldingi Eigenmann & Eigenmann, Am. Nat., xxv, 1891, 1132, Lake Tahoe.**
- 2344. *Cottus philonips* Eigenmann & Eigenmann.
Columbia River basin at Field, British Columbia, and in Idaho.
Cottus philonips Eigenmann & Eigenmann, Am. Nat., xxvi, 1892, 963, Kick-ug Horse River, Field, British Columbia.**

2345. *Cottus annæ* Jordan & Starks.
Eagle River, a tributary of Grand River, Colorado, Colorado River basin.
Cottus annæ Jordan & Starks, Proc. Cal. Ac. Sci. 1896, 223, Eagle River at
Gypsum, Colorado.
2346. *Cottus spilolus* (Cope).
Grand Rapids, on the Grand River, which flows into Lake Michigan.
Uranidea spilota Cope, Proc. Ac. Nat. Sci. Phila. 1865, 182, Grand River at
Grand Rapids, Michigan.
2347. *Cottus leiopomus* Gilbert & Evermann.
Wood River, Shoshone, Idaho.
Cottus leiopomus Gilbert & Evermann, Bull. U. S. Fish Com. 1894, 203, pl. 20,
fig. 2, Wood River, Shoshone, Idaho.
- Genus 724. **URANIDEA** DeKay.
Uranidea DeKay, New York Fauna: Fishes, 61, 1842 (*quiescens* = *gracilis*).
2348. *Uranidea bendirei* (Bean).
Walla Walla, Washington; Rattlesnake Creek near Camp Harney, Oregon,
and Goose Creek near Meadows, Idaho.
Potamacottus bendirei Bean, Proc. U. S. Nat. Mus. 1881, 27, Rattlesnake
Creek near Camp Harney, Oregon.
2349. *Uranidea marginata* Bean.
Tributaries of Walla Walla River, Washington.
Uranidea marginata Bean, Proc. U. S. Nat. Mus. 1881, 26, Walla Walla,
Washington.
2350. *Uranidea franklini* (Agassiz).
Lake Superior.
Cottus franklini Agassiz, Lake Superior, 303, 1850, north and east shores of
Lake Superior.
2351. *Uranidea kumlienii* Hoy.
Lake Michigan, in deep water.
Uranidea kumlienii Hoy, in Nelson, Bull. Ill. Mus. Nat. Hist., vol. 1, No. 1, 41,
1876, Lake Michigan, in deep water.
2352. *Uranidea gracilis* (Heckel).
Streams of New England and New York; recorded from tributaries of the
Connecticut, Lake Champlain, Hudson, Delaware, and Susquehanna.
Cottus gracilis Heckel, Ann. Wien. Mus., 11, 1840, 148, New England.
2353. *Uranidea formosa* (Girard).
Lake Ontario, in deep water.
Cottus formosus Girard, Monogr. Cott., 58, 1850, Lake Ontario, off Oswego,
in stomach of *Lota maculosa*.
2354. *Uranidea hoyi* Putnam.
Lake Michigan, in deep water.
Uranidea hoyi Putnam, in Nelson, Bull. Ill. Mus. Nat. Hist., vol. 1, No. 1, 41,
1876, Lake Michigan, in deep water.
- Genus 725. **ARGYROCOTTUS** Herzenstein.
Argyrocottus Herzenstein, Melanges Biol. Ac. Imp. Sci., XIII, 1892, 219, St.
Petersburg (*zanderi*).
2355. *Argyrocottus zanderi* Herzenstein.
Korsakow, Sakhalin.
Argyrocottus zanderi Herzenstein, Melanges Biol. Ac. Imp. Sci., XIII, 1892,
219, Korsakow, Sakhalin.
- Genus 726. **ACANTHOCOTTUS** Girard. *Great Sculpins*.
Acanthocottus Girard, Proc. Bost. Soc. Nat. Hist., III, 1849, 185 (*granlandicus*).
2356. *Acanthocottus æneus* (Mitchill). *Grubby*.
Coast of southern New England and New York.
Cottus æneus Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 380, New York.

2357. *Acanthocottus octodecimspinosus* (Mitchill). *Common Sculpin; Eighteen-spined Sculpin.*
Atlantic Coast south to Virginia; common, northward.
Cottus octodecimspinosus Mitchill, Trans. Lit. Phil. Soc. N. Y., I, 1815, 380, New York.
2358. *Acanthocottus platycephalus* (Pallas).
Kamchatka.
Cottus platycephalus Pallas, Zoogr. Rosso-Asiat., III, 135, 1811, Kamchatka; after Steller.
2359. *Acanthocottus scorpioides* (Fabricius).
Arctic regions of America, Greenland to Siberia.
Cottus scorpioides Fabricius, Fauna Grœnl., 157, 1780, Greenland.
2360. *Acanthocottus scorpius* (Linnaeus). *European Sculpin.*
Northern Europe and Arctic regions, not common on our coasts; recorded by Dr. Lütken from the Baltic, Finland, Spitzbergen, Nova Zembla, coasts of England and northern Asia; also from Eastport, Maine.
Cottus scorpius Linnaeus, Syst. Nat., ed. x, 265, 1758, in Atlantic Ocean off Europe.
2361. *Acanthocottus grœnlandicus* (Cuvier & Valenciennes). *Daddy Sculpin.*
New York to Greenland; according to Fabricius it is abundant in all the bays and inlets of Greenland.
Cottus grœnlandicus Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 156, 1829, no locality given, probably Greenland; after Fabricius.
2362. *Acanthocottus polyacanthocephalus* (Pallas).
Puget Sound to Alaska; very abundant northward.
Cottus polyacanthocephalus Pallas, Zoogr. Rosso-Asiat., III, 133, 1811, no locality.
2363. *Acanthocottus humilis* (Bean).
Chamisso Island, near Bering Straits.
Cottus humilis Bean, Proc. U. S. Nat. Mus., iv, 1881, 149, Chamisso Island, Bering Straits.
2364. *Acanthocottus jaok* (Cuvier & Valenciennes).
Kamchatka.
Cottus jaok Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 172, 1829, Kamchatka.
Subgenus **BOREOCOTTUS** GILL.
Boreocottus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166 (*axillaris*).
2365. *Acanthocottus verrucosus* (Bean).
Plover Bay, Siberia, near Bering Straits.
Cottus verrucosus Bean, Proc. U. S. Nat. Mus., iv, 1881, 152, Plover Bay, Siberia.
2366. *Acanthocottus niger* (Bean).
St. Paul Island, Bering Sea.
Cottus niger Bean, Proc. U. S. N. M., iv, 1881, 151, St. Paul Island, Bering Sea.
2367. *Acanthocottus axillaris* (Gill).
Bering Straits.
Boreocottus axillaris Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166, Bering Straits.
2368. *Acanthocottus polaris* (Sabine).
East side of the peninsula of Boothia.
Cottus polaris Sabine, Appendix Parry's First Voyage, CCXIII, 1819, north Georgia; not recognized by recent writers, the generic relations uncertain; Lütken compares it with *Icelus bicornis*, but it must be different.
2369. *Acanthocottus quadrifilis* (Gill).
Bering Straits.
Porocottus quadrifilis Gill, Proc. Ac. Nat. Sci. Phila. 1859, 166, Bering Straits.
2370. *Acanthocottus sellaris* Gilbert.
Bristol Bay, Alaska.
Acanthocottus sellaris Gilbert, Rept. U. S. Fish Com. 1893 (1896), 419, Bristol Bay, at Albatross Stations 3229, 3231, and others, in 5 to 17 fathoms.

Genus 727. ZESTICELUS* Jordan & Evermann.*Zesticelus* Jordan & Evermann, new genus (*profundorum*).**2371. Zesticelus profundorum** (Gilbert).

Bering Sea, north of Unalaska.

Acanthocottus profundorum Gilbert, Rept. U. S. Fish Com. 1893 (1896), 423, pl. 26, fig. 1, Bering Sea, north of Unalaska, at Albatross Station 3329, in 399 fathoms.**Genus 728. ONCOCOTTUS** Gill.*Oncocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 13 (*quadricornis*).**2372. Oncocottus labradoricus** (Girard).

York Factory, Hudson Bay.

Acanthocottus labradoricus Girard, Bost. Jour. Nat. Hist., vi, 1850, 247, York Factory, Hudson Bay.**2373. Oncocottus quadricornis** (Linnaeus).Arctic America to Baltic Sea, chiefly northward; abundant in eastern Baltic and in Lakes Ladoga and Onega; north to White Sea and Nova Zembla; rare in England and eastern Greenland; unknown in western Greenland. *Cottus quadricornis* Linnaeus, Syst. Nat., ed. x, 264, 1758, Baltic Sea.**2374. Oncocottus laticeps** (Gilbert).

Alaska, from Nushagak River near its mouth; one from Herendeen Bay on the northern side of Alaska Peninsula.

Acanthocottus laticeps Gilbert, Rept. U. S. Fish Com. 1893 (1896), 422, pls. 26 and 27, Nushagak River and Herendeen Bay, Alaska.**Genus 729. TRIGLOPSIS** Girard.*Triglopsis* Girard, Proc. Bost. Soc. Nat. Hist., iv, 1851, 18 (*thompsoni*).**2375. Triglopsis thompsoni** Girard.

Deep waters of Great Lakes; known from Lakes Michigan and Ontario.

Triglopsis thompsoni Girard, Proc. Bost. Soc. Nat. Hist., iv, 1851, 19, Lake Ontario, off Oswego, New York.**Genus 730. DASYCOTTUS** Bean.*Dasycottus* Bean, Proc. U. S. Nat. Mus. 1890, 42 (*setiger*).**2376. Dasycottus setiger** Bean.

North Pacific, off Sitkalidak Island; Puget Sound.

Dasycottus setiger Bean, Proc. U. S. Nat. Mus. 1890, 42, off Sitkalidak Island, 57° N., 153° 18' W., at Albatross Station 2855, in 69 fathoms.**Genus 731. COTTUNCULUS** Collett.*Cottunculus* Collett, Norges Fiske, 20, 1875 (*microps*).**2377. Cottunculus microps** Collett.

Deep water, off coasts of Norway and Rhode Island.

Cottunculus microps Collett, Norges Fiske, 20, pl. 1, figs. 1-3, 1875, Hasvig, near Hammerfest, Norway, in 200 fathoms.**2378. Cottunculus thomsonii** (Günther).

North Atlantic, in deep water.

Cottus thomsonii Günther, Proc. Royal Soc. Edinburgh, xi, 1882, 679, Farø Channel, in 535 fathoms.**Genus 732. MALACOCOTTUS** Bean.*Malacocottus* Bean, Proc. U. S. Nat. Mus. 1890, 42 (*zonurus*).**2379. Malacocottus zonurus** Bean.

Coast of Alaska, off Trinity Islands.

Malacocottus zonurus Bean, Proc. U. S. Nat. Mus. 1890, 43, off Trinity Islands, Alaska, 56° N., 154° W., at Albatross Station 2853, in 159 fathoms.*Distinguished from *Acanthocottus* by its cavernous skeleton; associated with its deep water habitat.

Genus 733. *GYMNOCANTHUS* Swainson.*Gymnocanthus* Swainson, Classn. Fishes, etc., 271, 1839 (*ventralis*).2380. *Gymnocanthus pistilliger* (Pallas).

Coasts of Alaska; taken abundantly in Bristol Bay.

Cottus pistilliger Pallas, Zoogr. Rosso-Asiat., III, 143, 1811, Unalaska Island.2381. *Gymnocanthus tricuspis* (Reinhardt).

Arctic seas, south to Norway and Labrador; not very common on our coasts.

Cottus tricuspis Reinhardt, Vidensk. Selsk. Nat. Math., V, III.2382. *Gymnocanthus galeatus* Bean.

Aleutian Islands.

Gymnocanthus galeatus Bean, Proc. U. S. Nat. Mus. 1881, 153, Unalaska.Genus 734. *LEIOCOTTUS* Girard.*Leiocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133 (*hirundo*).2383. *Leiocottus hirundo* Girard.

Santa Barbara Islands; extremely local.

Leiocottus hirundo Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133, San Miguel Island, near Santa Barbara, California.Genus 735. *LEPTOCOTTUS* Girard.*Leptocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 130 (*armatus*).2384. *Leptocottus armatus* Girard.

Pacific Coast, from Kodiak to San Diego.

Leptocottus armatus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 131, Cape Flattery, Fort Steilacoom, Shoalwater Bay, Humboldt Bay, San Francisco, Monterey, San Pedro, Fort Point, San Diego, and Tomales Bay.Genus 736. *CLINOCOTTUS* Gill.*Clinocottus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*analis*).2385. *Clinocottus analis* (Girard).

Coast of California, from Monterey to Lower California.

Oligocottus analis Girard, Proc. Ac. Nat. Sci. Phila. 1857, 201, Monterey.Genus 737. *OLIGOCOTTUS* Girard.*Oligocottus* Girard, Proc. Ac. Nat. Sci. Phila. 1856, 133 (*maculosus*).2386. *Oligocottus maculosus* Girard. *Johnny*.

Pacific Coast, from Cape Mendocino to Point Conception.

Oligocottus maculosus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 153, Tomales Bay, San Francisco.2387. *Oligocottus borealis* Jordan & Snyder.

Pacific Coast of America from Sitka to Cape Mendocino.

Oligocottus borealis Jordan & Snyder, Proc. Cal. Ac. Sci. 1896, 225, Neah Bay and Seattle, Washington.2388. *Oligocottus acuticeps* Gilbert.

Alaska to Cape Flattery; Departure Bay, Vancouver Island.

Oligocottus acuticeps Gilbert, Rept. U. S. Fish Com. 1893 (1896), 432, Unalaska.Genus 738. *BLENNICOTTUS* Gill.*Blennicottus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 166 (*globiceps*).2389. *Blennicottus embryum* Jordan & Starks.

Pacific Coast of America, from Puget Sound to Monterey, California.

Oligocottus embryum Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 808, pl. 82, Neah Bay, Washington.2390. *Blennicottus globiceps* (Girard).

Pacific Coast, from Coronados Island northward to Cape Mendocino.

Oligocottus globiceps Girard, U. S. Pac. R. R. Surv., Fish., 58, 1858, South Farallones.

- 2390a. Blennicottus globiceps bryosus** Jordan & Starks.
Puget Sound.
Blennicottus globiceps bryosus Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 808, Neah Bay, Washington.
- Genus 739. **HISTIOCOTTUS** Gill.
Histiocottus Gill, Proc. U. S. Nat. Mus. 1888, 573 (*bilobus*).
- 2391. Histiocottus bilobus** (Cuvier & Valenciennes).
Coast of Alaska and Kamchatka.
Blepsias bilobus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 379, 1829, no locality; somewhere in Kamchatka.
- Genus 740. **BLEPSIAS** Cuvier.
Blepsias Cuvier, Règne Animal, ed. 2, II, 167, 1829 (*cirrhosus*).
- 2392. Blepsias cirrhosus** (Pallas).
Alaska to San Francisco; common at Unalaska, but not often south of Puget Sound.
Trachinus cirrhosus Pallas, Zoogr. Rosso-Asiat., III, 237, 1811, Bering Sea.
- Genus 741. **NAUTICHTHYS** Girard.
Nautichthys Girard, Pac. R. R. Surv., Fishes, 74, 1858 (*oculofasciatus*).
- 2393. Nautichthys oculofasciatus** (Girard).
Pacific Coast, Alaska to San Francisco, chiefly northward; common in Bristol Bay and about Unalaska.
Blepsias oculofasciatus Girard, Proc. Ac. Nat. Sci. Phila. 1857, 202, Fort Steilacoom, Washington.
- Genus 742. **ULCA** Jordan & Evermann.
Ulca Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 227 (*marmoratus*).
- 2394. Ulca marmorata** (Bean).
Alaska, off Sitkalidak Island.
Hemitripteris marmoratus Bean, Proc. U. S. Nat. Mus. 1890, 43, off Sitkalidak Island.
- Genus 743. **HEMITRIPTERUS** Cuvier.
Hemitripteris Cuvier, Règne Animal, ed. 2, II, 164, 1829 (*americanus*).
- 2395. Hemitripteris americanus** (Gmelin). *Sea-raven*.
Atlantic Coast of America, chiefly northward, from Cape Cod to Labrador.
Scorpana americana Gmelin, Syst. Nat., ed. XIV, 1220, 1788, no locality given.
- 2396. Hemitripteris cavifrons** Lockington.
Coast of Alaska.
Hemitripteris cavifrons Lockington, Proc. Ac. Nat. Sci. Phila. 1880, 233, Kodiak Island, Alaska.
- Genus 744. **SYNCHIRUS** Bean.
Synchirus Bean, Proc. U. S. Nat. Mus., XII, 1889, 641 (*gilli*).
- 2397. Synchirus gilli** Bean.
Barclay Sound, British Columbia.
Synchirus gilli Bean, Proc. U. S. Nat. Mus., XII, 1889, 642, Barclay Sound.
- Genus 745. **ASCELICHTHYS** Jordan & Gilbert.
Ascelichthys Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 264 (*rhodorus*).
- 2398. Ascelichthys rhodorus** Jordan & Gilbert.
Pacific Coast from Sitka to Cape Mendocino; abundant in Neah Bay.
Ascelichthys rhodorus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 264, Waadda Island, Neah Bay, near Cape Flattery.
- Genus 746. **PSYCHROLUTES** Günther.
Psychrolutes Günther, Cat., III, 516, 1861 (*paradoxus*).
- 2399. Psychrolutes paradoxus** Günther.
Gulf of Georgia, Vancouver Island.
Psychrolutes paradoxus Günther, Cat., III, 516, 1861, Gulf of Georgia.

Genus 747. *GILBERTINA* Jordan & Starks.*Gilbertina* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 811 (*sigolutes*).2400. *Gilbertina sigolutes* Jordan & Starks.

Puget Sound.

Gilbertina sigolutes Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 811, pl. 84, Port Orchard, near Seattle.

Family CLXXXI. RHAMPHOCOTTIDÆ.

Genus 748. *RHAMPHOCOTTUS* Günther.*Rhamphocottus* Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370 (*richardsoni*).2401. *Rhamphocottus richardsoni* Günther.

North Pacific, Alaska to Monterey; not infrequent in Puget Sound.

Rhamphocottus richardsoni Günther, Ann. Mag. Nat. Hist., xiv, 1874, 370, Fort Rupert, British America.

Family CLXXXII. AGONIDÆ.

Genus 749. *HIPPOCEPHALUS* Swainson.*Hippocephalus* Swainson, Nat. Hist. Fishes, etc., ii, 272, 1839 (*superciliosus*).2402. *Hippocephalus japonicus* (Pallas).

North Pacific; Kuril Islands; Gulf of Patience; Sakhalin Island; Okhotsk Sea.

Cottus japonicus Pallas, "Spicilegia Zoologia, vii, 30, pl. 5, figs. 1-3, 1772," Kuril Islands.Genus 750. *AGONOMALUS* Guichenot.*Agonomalus* Guichenot, Mém. Soc. Sci. Nat. de Cherbourg, 252, pl. 9, 1866 (*proboscidalis*).2403. *Agonomalus proboscidalis* (Valenciennes).

Port of the Emperor Nicholas, Gulf of Tartary.

Aspidophorus proboscidalis Valenciennes, Comptes Rendus de l'Academie des Sciences, XLVII, 1040, 1858, Gulf of Tartary.Genus 751. *HYPHAGONUS* Gill.*Hypsagonus* Gill, Proc. Ac. Nat. Sci. Phila. 1861, 259 (*quadricornis*).2404. *Hypsagonus quadricornis* (Cuvier & Valenciennes).

North Pacific; Kamchatka; Bering Sea and coasts of Alaska south to Bristol Bay and Puget Sound.

Aspidophorus quadricornis Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 221, 1829, Kamchatka.Genus 752. *BRACHYOPSIS* Gill.*Brachyopsis* Gill, Proc. Ac. Nat. Sci. Phila. XIII, 1861, 167, 250 (*rostratus*).2405. *Brachyopsis verrucosus* Lockington.

Coast of California, south to San Francisco.

Brachyopsis verrucosus Lockington, Proc. U. S. Nat. Mus., III, May 6, 1880, 60, Drake Bay, near San Francisco.2406. *Brachyopsis rostratus* (Tilesius).

North Pacific, from Sakhalin, Gulf of Aniva, and the Kuril Islands.

Agonus rostratus Tilesius, Mém. Ac. Petersb., iv, pl. 14, 1810, Sakhalin, Gulf of Aniva.2407. *Brachyopsis dodecædrus* (Tilesius).

North Pacific, Kamchatka, Bristol Bay, coast of Alaska.

Agonus dodecædrus Tilesius, Mém. Ac. Petersb., iv, pl. 13, 1810, Kamchatka.2408. *Brachyopsis segaliensis* (Tilesius).

Island of Sakhalin.

Syngnathus segaliensis Tilesius, Mém. Soc. Imp. Nat. de Moscow, II, 216, pl. 14, 1810, Bay of Patience, Sakhalin Island.

Genus 753. *STELLERINA** Cramer.*Stellerina* Cramer, new genus (*xyosternus*).2409. *Stellerina xyosterna* (Jordan & Gilbert).

Coast of California and Oregon.

Brachyopsis xyosternus Jordan & Gilbert, Proc. U. S. Nat. Mus., III, July 2, 1888, 152, Santa Cruz, California.Genus 754. *PALLASINA* Cramer.*Pallasina* Cramer, Proc. Cal. Ac. Sci. 1895, 815 (*barbatus*).2410. *Pallasina barbata* (Steindachner).

North Pacific, south to Japan.

Siphagonus barbatus Steindachner, Ichth. Beitr., v, 140, pl. 5, Sitzb. der K. Ac. der Wiss., LXXIV, July, 1876, Hakodate and Nagasaki, Japan.Genus 755. *LEPTAGONUS* Gill.*Leptagonus* Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, 167, 259 (*spinosissimus* = *decagonus*).2411. *Leptagonus decagonus* (Bloch & Schneider).

Arctic Ocean, south to Newfoundland and Norway.

Agonus decagonus Bloch & Schneider, Syst. Ichth., i, 105, pl. 27, 1801, erroneously recorded from the East Indies, the type from Greenland.Genus 756. *PODOTHECUS* Gill.*Podothecus* Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, 77, 259 (*peristethus* = *acipenserinus*).2412. *Podothecus accipiter* Jordan & Starks.

Robben Island.

Podothecus accipiter Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 816, pl. 88, Robben Island, Okhotsk Sea.2413. *Podothecus gilberti* (Collett).

Kamchatka.

Agonus gilberti Collett, Proc. Zool. Soc. Lond. 1894, 670, pl. 45, Kamchatka.2414. *Podothecus acipenserinus* (Tilesius). *Common Alligator-fish.*

Kamchatka to Puget Sound.

Agonus acipenserinus Tilesius, Mém. Ac. Petersb., IV, 1811, 422, pl. 11, fig. 163, Unalaska.2415. *Podothecus veterinus* Jordan & Starks.

Robben Island.

Podothecus veterinus Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 819, pl. 89, Robben Island, Okhotsk Sea.Genus 757. *STELGIS* Cramer.*Stelgis* Cramer, Proc. Cal. Ac. Sci. 1895, 821 (*vulsus*).2416. *Stelgis vulsus* (Jordan & Gilbert).

Off San Francisco.

Agonus vulsus Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 330, Point Reyes, near San Francisco.Genus 758. *AVERRUNCUS* Jordan & Starks.*Averruncus* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 824 (*emmelane*).2417. *Averruncus emmelane* Jordan & Starks.

Puget Sound, near Port Orchard.

Averruncus emmelane Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 821, pl. 91, Port Orchard, Puget Sound.

* Distinguished by the armature, especially that of the breast, which is reduced to prickles.

Genus 759. **SARRITOR** Cramer.

Sarritor Cramer, in Jordan & Evermann, Fishes North and Middle America, 1896 (*frenatus*).

2418. **Sarritor frenatus** (Gilbert).

Coast of Alaska.

Odontopyxis frenatus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 435, pl. 30, fig. 3, Alaska and Aleutian Islands, at Albatross Stations 3219, 3225, and many others, in 16 to 351 fathoms.

2419. **Sarritor leptorhynchus** (Gilbert).

Coast of Alaska.

Odontopyxis leptorhynchus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 437, north and south of the Alaskan peninsula, at Albatross Stations 3215, 3219, and others, in 32 to 59 fathoms.

Genus 760. **XYSTES** Jordan & Starks.

Xystes Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 824 (*axinophrys*).

2420. **Xystes axinophrys** Jordan & Starks.

Puget Sound.

Xystes axinophrys Jordan & Starks, Proc. Cal. Ac. Sci. 1885, 824, pl. 92, Port Orchard, Admiralty Inlet.

Genus 761. **BATHYAGONUS** Gilbert.

Bathyagonus Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 89 (*nigripinnis*).

2421. **Bathyagonus nigripinnis** Gilbert.

North Pacific, known from the Aleutian Islands, Bering Sea, south to the coast of Washington.

Bathyagonus nigripinnis Gilbert, Proc. U. S. Nat. Mus. 1890, 89, coast of Washington, at Albatross Station 3073, in 477 fathoms.

Genus 762. **XENOCHIRUS** Gilbert.

Xenochirus Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 90 (*triacanthus*).

2422. **Xenochirus pentacanthus** Gilbert.

Coast of Washington.

Xenochirus pentacanthus Gilbert, Proc. U. S. Nat. Mus. 1890, 91, coast of Washington, at Albatross Station 3076, in 178 fathoms.

2423. **Xenochirus alascanus** Gilbert.

Aleutian Islands.

Xenochirus alascanus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 438, Unimak Pass, Aleutian Islands, at Albatross Stations 3216, 3219, and others, in 35 to 138 fathoms.

2424. **Xenochirus latifrons** Gilbert.

North Pacific Coast, from Oregon to San Diego.

Xenochirus latifrons Gilbert, Proc. U. S. Nat. Mus. 1890, 92, off coast of Oregon and San Diego, at Albatross Stations 2898, 2935, etc., in 61 to 158 fathoms.

2425. **Xenochirus triacanthus** Gilbert.

Pacific Coast, from Santa Barbara to Washington.

Xenochirus triacanthus Gilbert, Proc. U. S. Nat. Mus. 1890, 91, off coast of California, Oregon, and Washington, at Albatross Stations 2893, 2973, and 3059 in 145, 68, and 77 fathoms.

Genus 763. **ODONTOPTYXIS** Lockington.

Odontopyxis Lockington, Proc. U. S. Nat. Mus., II, 1879, 328 (*trispinosus*).

2426. **Odontopyxis trispinosus** Lockington.

Pacific Coast of United States, from Puget Sound to Santa Barbara.

Odontopyxis trispinosus Lockington, Proc. U. S. Nat. Mus., II, 1879, 328, San Francisco.

Genus 764. BOTHRAGONUS Gill.*Bothragonus* Gill, in Jordan & Gilbert, Synopsis, 728, 1883 (*swanii*).**2427. Bothragonus swanii** (Steindachner).

Puget Sound.

Hypsogonus swanii Steindachner, Ichth. Beitr., v, 144, pl. 4, Sitzb. der Akad. Wiss., LXXIV, July, 1876, Port Townsend, Washington.**Genus 765. ASPIDOPHOROIDES Lacépède.***Aspidophoroides* Lacépède, Hist. Nat. Poiss., III, 228, 1802 (*tranquebar* = *monopterygius*).

Subgenus ULCINA Cramer.

Ulcina Cramer, new subgenus (*olrikii*).**2428. Aspidophoroides olrikii** Lütken.

Arctic Ocean; known from west coast of Greenland, Davis Strait, Kara Sea, Barrants Bay, and Nova Zembla.

Aspidophoroides olrikii Lütken, Forelob. Meddel. om Nord Ulkefische, Vidensk. Meddel. Naturhist., Foren. Kjob. 386, with 3 figures, 1876, Greenland.

Subgenus ASPIDOPHOROIDES Lacépède.

2429. Aspidophoroides guntheri Bean.

Coast of Alaska.

Aspidophoroides guntheri Bean, Proc. U. S. Nat. Mus. 1885, 74, Alaska.**2430. Aspidophoroides monopterygius** (Bloch)

Greenland to Cape Cod.

Cottus monopterygius Bloch, Ichth., II, 156, pl. 178, figs. 1, 2, 1786, Tranquebar; an error.**2431. Aspidophoroides bartoni** Gilbert.

Aleutian Islands.

Aspidophoroides bartoni Gilbert, Rept. U. S. F. C. 1893 (1896), 434, Aleutian Islands and Bristol Bay, Alaska, at Albatross Stations 3213, 3223, and many others, in 11½ to 121 fathoms.

Subgenus ANOPLAGONUS Gill.

Anoplagonus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 259 (*inermis*).**2432. Aspidophoroides inermis** Günther.

Coasts of Alaska, south to Vancouver Island.

Aspidophoroides inermis Günther, Cat., II, 524, 1860, Vancouver Island.**Family CLXXXIII. CYCLOPTERIDÆ. The Lump Suckers.****Genus 766. CYCLOPTERUS (Artedi) Linnæus.***Cyclopterus* Linnæus, Syst. Nat., ed. x, I, 260, 1758 (*lumpus*).**2433. Cyclopterus lumpus** Linnæus. *Lumpfish; Cock and Hen Paddle; Lump Sucker.*North Atlantic; rocky shores of both coasts, south to Cape Cod and France. *Cyclopterus lumpus* Linnæus, Syst. Nat., ed. XI, I, 260, 1766, Baltic and North Sea.**Genus 767. EUMICROTREMUS Gill.***Eumicrotremus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 190 (*spinus*).**2434. Eumicrotremus spinus** (Müller).

North Atlantic and Arctic oceans, south to Maine and Denmark; Eastport, Maine.

Cyclopterus spinus Müller, Prodr. Zool. Dan., IX, 1777, Denmark.**2435. Eumicrotremus orbis** (Günther).

Aleutian Islands.

Cyclopterus orbis Günther, Cat., III, 158, 1861, Vancouver Island.

Genus 768. **LEHOTREMUS** Gilbert.

Lethotremus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 449 (*muticus*).

2436. **Lethotremus muticus** Gilbert.

Aleutian Islands, near Unimak Pass, Alaska.

Lethotremus muticus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 449, pl. 31, Unimak Pass, Alaska, at Albatross Stations 3223 and 3258, in 56 to 70 fathoms.

2437. **Lethotremus vinolentus** Jordan & Starks.

Puget Sound, Washington.

Lethotremus vinolentus Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 827, pl. 94, Puget Sound, near Seattle, Washington.

Genus 769. **CYCLOPTEROIDES** Garman.

Cyclopteroides Garman, Mon. Discoboli, 37, 1892 (*gyrinops*).

2438. **Cyclopteroides gyrinops** Garman.

St. Paul Island, Alaska.

Cyclopteroides gyrinops Garman, Mon. Discoboli, in Memoirs Mus. Comp. Zool., 37, 1892, St. Paul Island.

Genus 770. **CYCLOPTERICHTHYS** Steindachner.

Cyclopterichthys Steindachner, Ichth. Beitr., x, 14, 1881 (*glaber* = *ventricosus*).

2439. **Cyclopterichthys ventricosus** (Pallas).

Kamchatka; Sea of Okhotsk.

Cyclopterus ventricosus Pallas, Spicilegia Zoo., VII, 15, t. 2, 1770, no locality given, somewhere about Kamchatka.

Genus 771. **LIPAROPS** Garman.

Liparops Garman, Discoboli, 42, 1892 (*stelleri*).

2440. **Liparops stelleri** Pallas.

Peter and Paul Harbor, Kamchatka.

Liparops stelleri Pallas, in Garman, Discoboli, 42, 1892, Peter and Paul Harbor, Kamchatka.

Family **CLXXXIV. LIPARIDIDÆ.** The Sea Snails.

Genus 772. **NEOLIPARIS** Steindachner.

Neoliparis Steindachner, Ichth. Beitr., III, 54, 1875 (*mucosus*).

2441. **Neoliparis montagui** (Donovan).

North Atlantic, on both coasts, south to Connecticut.

Cyclopterus montagui Donovan, Brit. Fishes, III, pl. 68, 1805, England; after *Montague's Sucker*.

2442. **Neoliparis calliodon** (Pallas).

Coasts of Alaska, north to Kamchatka and Bering Sea; recorded from St. Paul, Kamchatka, Plover Bay, Siberia, Unalaska, and Kodiak.

Cyclopterus calliodon Pallas, Zoogr. Rosso-Asiat., III, 75, 1811, Kamchatka and Aleutian Islands.

2443. **Neoliparis mucosus** (Ayres).

Coast of California.

Liparis mucosus Ayres, Proc. Cal. Ac. Sci., I, 1855, 24 San Francisco.

2444. **Neoliparis floræ** Jordan & Starks.

Pacific Coast, Puget Sound to Monterey.

Neoliparis floræ Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 830, pl. 96, fig. 1, Waadda Island, Straits of Juan de Fuca.

2445. **Neoliparis greeni** Jordan & Starks.

Puget Sound, at Victoria, British Columbia.

Liparis greeni Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 829, pl. 96, figs. 2 and 3, Victoria, British Columbia.

Genus 773. **LIPARIS** (Artedi) Scopoli. *Sea Snails*.

Liparis (Artedi) Scopoli, *Introd. Hist. Nat.*, 453, 1777 (*liparis*).

Subgenus **LIPARIS** (Artedi) Scopoli.

2446. **Liparis liparis** (Cuvier). *Sea Snail*.

North Atlantic, on both shores, south to Connecticut and France.

Cyclopterus liparis Linnaeus, *Syst. Nat.*, ed. 12, 1, 414, 1766, Northern Ocean; after Artedi and Gronow.

2447. **Liparis cyclopus** Günther.

Aleutian Islands to Puget Sound.

Liparis cyclopus Günther, *Cat.*, III, 162, 1861, Esquimault Harbor, Vancouver Island.

2448. **Liparis fucensis** Gilbert.

Straits of Fuca.

Liparis fucensis Gilbert, *Proc. Cal. Ac. Sci.* 1895, 837, and *Rept. U. S. Fish Com.* 1893 (1896), 447, Port Angeles, Straits of Juan de Fuca.

2449. **Liparis tunicata** Reinhardt.

Coast of Greenland.

Liparis tunicata Reinhardt, *Övers. Kong. Danske Vidensk. Selsk.*, VI, CXI, 1836, Greenland.

2450. **Liparis agassizii** Putnam.

Bristol Bay.

Liparis agassizii Putnam, *Proc. Amer. Assoc. Adv. Sci.* 1874, 339, Sakhalin Channel of Tartary.

2451. **Liparis dennyi** Jordan & Starks.

North Pacific, from Aleutian Islands south to Puget Sound.

Liparis dennyi Jordan & Starks, *Proc. Cal. Ac. Sci.* 1895, 835, pl. 98, Admiralty Inlet, near Seattle.

2452. **Liparis cyclostigma** Gilbert.

Bristol Bay, Alaska.

Liparis cyclostigma Gilbert, *Rept. U. S. Fish Com.* 1893 (1896), 446, Bristol Bay, Alaska, at Albatross Station 3252, in 29½ fathoms.

Subgenus **LYOLIPARIS*** Jordan & Evermann.

Lyoliparis Jordan & Evermann, new subgenus (*pulchellus*).

2453. **Liparis pulchellus** Ayres.

Point Reyes, California; northern Pacific, Alaska to Monterey.

Liparis pulchellus Ayres, *Proc. Cal. Ac. Sci.*, 1, 1855, 23, San Francisco.

Subgenus **ACTINOCHIR** Gill.

Actinochir Gill, *Proc. Ac. Nat. Sci. Phila.* 1864, 193 (*major*).

2454. **Liparis major** (Gill).

Coasts of Greenland.

Actinochir major Gill, *Proc. Ac. Nat. Sci. Phila.* 1864, 193, Greenland.

Genus 774. **BATHYPHASMA** Gilbert.

Bathyphasma Gilbert, *Rept. U. S. Fish Com.* 1893 (1896), 448 (*ovigerum*).

2455. **Bathyphasma ovigerum** Gilbert.

Off Queen Charlotte Island, British Columbia.

Bathyphasma ovigerum Gilbert, *Rept. U. S. Fish Com.* 1893 (1896), 448, Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.

* Distinguished from *Careliparis* by the greater number of vertebrae, and from *Actinochir* by the depressed cranium.

Genus 775. *CAREPROCTUS* Kroyer.*Careproctus* Kroyer, Naturh. Tidskr., 1, 257, 1862 (*reinhardtii*).

Subgenus CAREMITRA* Jordan & Evermann.

Carenitra Jordan & Evermann, new subgenus (*simus*).2456. *Careproctus simus* Gilbert.

Off Unalaska Island.

Careproctus simus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, off Unalaska, at Albatross Station 3331, in 350 fathoms.

Subgenus CAREPROCTUS Kroyer.

2457. *Careproctus colletti* Gilbert.

South of Alaska Peninsula.

Careproctus colletti Gilbert, Rept. U. S. Fish Com. 1893 (1896), 442, south of Alaska Peninsula, at Albatross Station 3338, in 625 fathoms.2458. *Careproctus phasma* Gilbert.

Bristol Bay, Alaska.

Careproctus phasma Gilbert, Rept. U. S. Fish Com. 1893 (1896), 443, Bristol Bay, Alaska, at Albatross Stations 3254 and 3256, in 46 and 49 fathoms.2459. *Careproctus spectrum* Bean.

Between Unga and Nagai islands, Alaska.

Careproctus spectrum Bean, Proc. U. S. Nat. Mus. 1890, 40, between Unga and Nagai islands, 160° 18' W., 55° 10' N., at Albatross Station 2848, in 110 fathoms.2460. *Careproctus reinhardtii* (Kroyer).

Greenland, Jan Mayen, and Beeren Island.

Liparis (*Careproctus*) *reinhardtii* Kroyer, Naturh. Tidskr., 1, 252, 1862, Greenland.2461. *Careproctus ranula* (Goode & Bean).

Off Halifax Harbor.

Liparis ranula Goode & Bean, Proc. U. S. Nat. Mus. 1880, 46, Halifax.2462. *Careproctus ostentum* Gilbert.

Unalaska Island.

Careproctus ostentum Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, north of Unalaska Island, at Albatross Stations 3324 and 3331, in 109 and 350 fathoms.2463. *Careproctus gelatinosus* (Pallas).

Peter and Paul Harbor, Kamchatka.

Cyclopterus gelatinosus Pallas, Spicilegia, VII, 19, 1769, Peter and Paul Harbor, Kamchatka.

Subgenus ALLOCHIR† Jordan & Evermann.

Allochir Jordan & Evermann, new subgenus (*melanurus*).2464. *Careproctus melanurus* Gilbert.

Off coast of California and Oregon.

Careproctus melanurus Gilbert, Proc. U. S. Nat. Mus. 1891, 560, off coasts of California and Oregon, at Albatross Stations 2840, 2891, and others, in 178 to 339 fathoms.

Subgenus ALLURUS‡ Jordan & Evermann.

Allurus Jordan & Evermann, new subgenus (*ectenes*).2465. *Careproctus ectenes* Gilbert.

Unalaska Island.

Careproctus ectenes Gilbert, Rept. U. S. Fish Com. 1893 (1896), 442, north of Unalaska, at Albatross Station 3331, in 350 fathoms.

* Distinguished by the short, deep body and blunt head.

† Distinguished by the entire pectoral fins, without trace of notch.

‡ Distinguished by the excessively elongate body and depressed snout.

Genus 776. GYRINICHTHYS Gilbert.*Gyrinichthys* Gilbert, Rept. U. S. Fish Com. (1893) 1896, 444 (*minytremus*).**2466. Gyrinichthys minytremus Gilbert.**

Off Unalaska Island.

Gyrinichthys minytremus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 444, north of Unalaska, at Albatross Station 3331, in 350 fathoms.**Genus 777. AMITRA Goode.***Amitra* Goode, Proc. U. S. Nat. Mus. 1880, 478 (*liparina*).**2467. Amitra liparina Goode.**

Atlantic Ocean, off Rhode Island.

Amitra liparina Goode, Proc. U. S. Nat. Mus. 1880, 478, off Rhode Island.**Genus 778. PARALIPARIS Collett.***Paraliparis* Collett, Vid. Selsk. Forsk. Christiania, 14, 32. 1878 (*bathybiti*).**Subgenus PARALIPARIS Collett.****2468. Paraliparis holomelas Gilbert.**

North of Unalaska Island.

Paraliparis holomelas Gilbert, Rept. U. S. Fish Com. 1893 (1896), 441, north of Unalaska, at Albatross Stations 3308 and 3332, in 406 and 1,625 fathoms.**Subgenus AMITRICHTHYS* Jordan & Evermann.***Amitrichthys* Jordan & Evermann, new subgenus (*cephalus*).**2469. Paraliparis cephalus Gilbert.**

Alaska to California.

Paraliparis cephalus Gilbert, Proc. U. S. Nat. Mus. 1891, 561, off California and Oregon, at Albatross Station 2919, in 984 fathoms.**2470. Paraliparis rosaceus Gilbert.**

Coast of Mexico.

Paraliparis rosaceus Gilbert, Proc. U. S. N. M. 1890, 93, west coast of Mexico, at Albatross Stations 2898, 2935, and others, in 61 to 158 fathoms.**2471. Paraliparis mento Gilbert.**

Coast of Oregon.

Paraliparis mento Gilbert, Proc. U. S. Nat. Mus. 1891, 562, off coast of Oregon, at Albatross Station 3071, in 685 fathoms.**2472. Paraliparis copei Goode & Bean.**

Gulf Stream.

Paraliparis copei Goode & Bean, Ocean. Ichth., 279, fig. 253, 1896, Gulf Stream, at Albatross Station 2232, 39° 12' 17" N., 72° 9' 30" W., in 520 fathoms.**2473. Paraliparis dactylosus Gilbert.**

Off Santa Cruz, California.

Paraliparis dactylosus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 469, pl. 34, fig. 2, off Santa Cruz, California, at Albatross Station 3112, in 296 fathoms.**Subgenus HILGENDORFIA Goode & Bean.***Hilgendorfia* Goode & Bean, Oceanic Ichth., 280, 1896 (*membranacea*).**2474. Paraliparis ulochir Gilbert.**

Gulf of California and Unalaska.

Paraliparis ulochir Gilbert, Rept. U. S. Fish Com. 1893 (1896), 441, Gulf of California, at Albatross Station 3010, in 1,005 fathoms.**Genus 779. RHINOLIPARIS Gilbert.***Rhinoliparis* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 445 (*barbulifer*).**2475. Rhinoliparis barbulifer Gilbert.**

Bering Sea.

Rhinoliparis barbulifer Gilbert, Rept. U. S. Fish Com. 1893 (1896), 445, north of Unalaska, Alaska, at Albatross Stations 3227, 3325, and others, in 225 to 576 fathoms.

* Distinguished by the very small gill-openings, above pectorals.

Group GOBIOIDEI. The Gobies.

Family CLXXXV. CALLIONYMIDÆ. The Dragonets.

Genus 780. CALLIONYMUS Linnaeus.

Callionymus Linnaeus, Syst. Nat., ed. x, 249, 1758 (*Iyra*).

2476. *Callionymus bairdi* Jordan.

"Snapper Banks," between Pensacola and Tampa, Florida.

Callionymus bairdi Jordan, Proc. U. S. Nat. Mus. 1887, 501, Snapper Banks, off Pensacola, Florida.

2477. *Callionymus himantophorus* Goode & Bean.

Off Barbados; off Santa Cruz.

Callionymus himantophorus Goode & Bean, Oceanic Ichth., 296, figs. 268 A and B, 1896, off Barbados, in 209 fathoms.

2478. *Callionymus calliurus* Eigenmann & Eigenmann.

Key West, Florida.

Callionymus calliurus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 76, South Beach, Key West.

2479. *Callionymus pauciradiatus* Gill.

Mantanzas, Cuba.

Callionymus pauciradiatus Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1865, 143, Mantanzas, Cuba.

Family CLXXXVI. GOBIIDÆ. The Gobies.

Genus 781. IOGLOSSUS Bean.

Ioglossus Bean, in Jordan and Gilbert, Proc. U. S. N. M. 1892, 297 (*calliurus*).

2480. *Ioglossus calliurus* Bean.

Gulf of Mexico; Snapper Banks, off Pensacola, Florida.

Ioglossus calliurus Bean, in Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 297, Pensacola, Florida.

Genus 782. PHILYPNUS Cuvier & Valenciennes.

Philypnus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 255, 1837 (*dormitor*).

2481. *Philypnus dormitor* (Lacépède). *Sleeper*; *Guarina*.

Streams of the West Indies and Atlantic shores of Central America, Mexico and Surinam.

Gobiomorus dormitor Lacépède, Hist. Nat. Poiss., II, 599, 1798, Martinique; from a drawing by Plumier.

2482. *Philypnus lateralis* Gill. *Aboma de Mar*.

Streams of Pacific Coast of Mexico and Central America, from Sonora to Panama.

Philypnus lateralis Gill, Proc. Ac. Nat. Sci. Phila. 1860, 123, Cape San Lucas.

Genus 783. DORMITATOR Gill.

Dormitator Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*gundlachi*).

2483. *Dormitator maculatus* (Bloch). *Guavina-Mapo*; *Paneca*.

Both coasts of America, ranging from South Carolina through the West Indies to Pará, Cape San Lucas, and Panama.

Soiæna maculata Bloch, Ichth., pl. 399, fig. 2, 1790, West Indies.

Genus 784. GUAVINA Bleeker.

Guavina Bleeker, Esquisse d'un Syst. Nat. Gobioid., 302, 1874 (*guavina*).

2484. *Guavina guavina* (Cuvier & Valenciennes). *Guarubaco*; *Guarina*.

East coast of tropical America, Cuba to Rio Janeiro.

Eleotris guarina Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 223, 1837, Martinique.

Genus 785. ELEOTRIS Bloch & Schneider.*Eleotris* Bloch & Schneider, Syst. Ichth., 65, 1801 (*pisonis*).**2485. *Eleotris amblyopsis* (Cope).**

Atlantic Coast of America, from Charleston, South Carolina, to Surinam; streams of West Indies.

Eleotris amblyopsis Cope, Trans. Amer. Philos. Soc. 1870, 473, Surinam.**2486. *Eleotris abacurus* Jordan & Gilbert.**

Coast of South Carolina.

Eleotris abacurus Jordan & Gilbert, Proc. Cal. Ac. Sci. 1896, 228, Charleston, South Carolina.**2487. *Eleotris pisonis* (Gmelin). *Guavina*; *Tetard*; *Sleeper*.**

Rio Almondarés, Cuba.

Gobius pisonis Gmelin, Syst. Nat., 106, 1788, Rio Almondarés, Cuba (based on *Eleotris* of Gronow).**2488. *Eleotris perniger* (Cope).**

West Indies, south to Rio Janeiro.

Culius perniger Cope, Trans. Amer. Philos. Soc. 1870, 473, St. Martins.**2489. *Eleotris pictus* Kner & Steindachner. *Guavina*.**

Streams about the Gulf of California, from Sonora south to Panama; Rio Presidio.

Eleotris pictus Kner & Steindachner, Abh. Ak. Wiss. Wien, 1864, 18, pl. 3, fig. 1, Rio Bayano, near Panama.**Genus 786. ALEXURUS Jordan.***Alexurus* Jordan, Proc. Cal. Ac. Sci. 1895, 511 (*armiger*).**2490. *Alexurus armiger* Jordan.**

La Paz, Baja California.

Alexurus armiger Jordan & Richardson, in Jordan, Proc. Cal. Ac. Sci. 1895, 511, pl. 48, La Paz, Lower California.**Genus 787. EROTELIS Poey. *Esmeraldas de Mar*.***Erotelis* Poey, Memorias, II, 273, 1861 (*valenciennesi* = *smaragdus*).**2491. *Erotelis smaragdus* (Cuvier & Valenciennes). *Esmeralda Negra*; *Esmeralda de Mar*.**

Key West and Cuba; coral shores among algae.

Eleotris smaragdus Cuv. & Val., Hist. Nat. Poiss., XII, 231, 1837, Cuba.**Genus 788. GYMNELEOTRIS Bleeker.***Gymneleotris* Bleeker, Esqu. d'un Syst. Nat. des Gobi., 304, 1874 (*seminuda*).**2492. *Gymneleotris seminuda* (Günther).**

Panama.

Eleotris seminuda Günther, Proc. Zool. Soc. Lond. 1864, 24, pl. 4, figs. 2, 2a, Panama.**Genus 789. CHRIOLEPIS Gilbert.***Chriolepis* Gilbert, Proc. U. S. Nat. Mus. 1891, 557 (*minutillus*).**2493. *Chriolepis minutillus* Gilbert.**

Gulf of California.

Chriolepis minutillus Gilbert, Proc. U. S. Nat. Mus. 1891, 558, Gulf of California, at Albatross Station 2825.**Genus 790. SICYDIUM Cuvier & Valenciennes.***Sicydium* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 168, 1837 (*plumieri*).**2494. *Sicydium plumieri* (Bloch). *Sirago*.**

Fresh waters of the West Indies.

Gobius plumieri Bloch, Ichth., 125, pl. 178, fig. 3, 1786, Martinique; on a drawing by Plumier.**2495. *Sicydium antillarum* Ogilvie-Grant.**

Barbados.

Sicydium antillarum Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 157, Barbados.

2496. *Sicydium vincente* Jordan & Evermann.

Kingston, St. Vincent Island; Haiti.

Sicydium vincente Jordan & Evermann, Fishes North and Middle America, 1896, St. Vincent Island.**Genus 791. *COTYLOPUS* Guichenot.***Cotylopus* Guichenot, in Maillard, Notes sur l'Isle de la Réunion, II, Addendum, 9, 1864 (*acutipinnis*).**Subgenus *SICYA* Jordan & Evermann.***Sicya* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*gymnogaster*).**2497. *Cotylopus gymnogaster* (Ogilvie-Grant).**

Streams about Mazatlan, Mexico.

Sicydium gymnogaster Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 158, pl. 11, fig. 2, and pl. 12, fig. 6, Mazatlan, Mexico.**2498. *Cotylopus salvini* (Ogilvie-Grant).**

Streams near Panama.

Sicydium salvini Ogilvie-Grant, Proc. Zool. Soc. Lond. 1884, 159, pl. 12, fig. 2, Panama.**Genus 792. *EVORTHODUS* Gill.***Evorthodus* Gill, Proc. Ac. Nat. Sci. Phila. 1859, 195 (*breviceps*).**2499. *Evorthodus breviceps* Gill.**

Trinidad and Surinam.

Evorthodus breviceps Gill, Proc. Ac. Nat. Sci. Phila. 1859, 195, Trinidad.**Genus 793. *LOPHOGOBIUS* Gill. *Crested Gobies*.***Lophogobius* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*crisagalli* = *cyprinoides*).**2500. *Lophogobius cyprinoides* (Pallas).**

West Indies; Cuba.

Gobius cyprinoides Pallas, Spic., Zool., VIII, 17, pl. 1, fig. 5, 1770, "Amboina."**Genus 794. *GOBIUS* (Artedi) Linnæus.***Gobius* (Artedi) Linnæus, Syst. Nat., ed. x, 262, 1758 (*niger*).**Subgenus *GOBIUS* (Artedi) Linnæus.****2501. *Gobius soporator* Cuvier & Valenciennes. *Sleeper; Mapo; Caiman*.**

Panama, Barbados, Pará, Itapuana, Cuba, Galapagos, Sambara, Bahamas, Orange Key, Bahia, Pernambuco, St. Thomas, Tortugas, Florida Keys, Martinique, Sao Matheas, Curuca, Rio de Janeiro, Rio Doce.

Gobius soporator Cuv. & Val., Hist. Nat. Poiss., XII, 56, 1837, Martinique.**Subgenus *CTENOGOBIUS* Gill.***Ctenogobius* Gill, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, 374, 430 (*fasciatus*).**2502. *Gobius nicholsi* Bean.**

Coast of British Columbia.

Gobius nicholsi Bean, Proc. U. S. Nat. Mus. 1881, 469, Departure Bay, British Columbia.**2503. *Gobius glaucofrænum* (Gill).**

Florida Keys; Tortugas (?); Washington (?).

Coryphopterus glaucofrænum Gill, Proc. Ac. Nat. Sci. Phila. 1863, 263, coast of Washington; evidently an error.**2504. *Gobius manglicola* Jordan & Starks.**

Pacific Coast of Mexico at Mazatlan.

Gobius manglicola Jordan & Starks, in Jordan, Proc. Cal. Ac. Sci. 1895, 495, Mazatlan, Mexico.**2505. *Gobius stigmaturus* Goode & Bean.**

Florida Keys.

Gobius stigmaturus Goode & Bean, Proc. U. S. Nat. Mus. 1882, 418, no type locality given, but specimens probably from Florida Keys.

- 2506. *Gobius quadriporus*** Cuvier & Valenciennes.
Surinam.
Gobius quadriporus Cuv. & Val., Hist. Nat. Poiss., XII, 87, 1837, Surinam.
- 2507. *Gobius shufeldti*** Jordan & Eigenmann.
Gulf Coast of United States.
Gobius shufeldti Jordan & Eigenmann, Proc. U. S. Nat. Mus. 1886, 495, New Orleans.
- 2508. *Gobius boleosoma*** Jordan & Gilbert.
Gulf of Mexico, Pensacola to Key West.
Gobius boleosoma Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 295, Laguna Grande, Pensacola.
- 2509. *Gobius fasciatus*** (Gill).
West Indies.
Ctenogobius fasciatus Gill, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, 376, Trinidad.
- 2510. *Gobius encæomus*** Jordan & Gilbert.
South Carolina to Key West.
Gobius encæomus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 611, Charleston, South Carolina.
- 2511. *Gobius stigmaticus*** (Poey).
Coast of North Carolina, Florida Keys, West Indies, southward to Rio Janeiro; common at Havana.
Smaragdus stigmaticus Poey, Memorias, II, 281, 1861, Cuba.
- 2512. *Gobius lyricus*** Girard.
Gulf of Mexico, from Galveston to Cuba and the Lesser Antilles.
Gobius lyricus Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Brazos Santiago, Texas.
- 2513. *Gobius garmani*** Eigenmann & Eigenmann.
Dominica; Fort de France; Martinique; St. Kitts.
Gobius garmani Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 61, Dominica, Fort de France, Martinique, and St. Kitts.
- 2514. *Gobius zebra*** Gilbert.
West coast of Mexico.
Gobius zebra Gilbert, Proc. U. S. Nat. Mus. 1890, 73, west coast of Mexico.
Subgenus EUCTENOGOBIUS Gill.
Euctenogobius Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1859, 45 (*badius*).
- 2515. *Gobius poeyi*** Steindachner.
Barbados.
Gobius poeyi Steindachner, Ichth. Notizen, VI, 44, 1867, Barbados.
- 2516. *Gobius badius*** (Gill).
Mouth of Amazon.
Euctenogobius badius Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1859, 47, Amazon.
Subgenus GOBIONELLUS Girard.
Gobionellus Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168 (*hastatus*).
- 2517. *Gobius microdon*** Gilbert.
San Juan Lagoon, west coast of Mexico.
Gobius microdon Gilbert, Proc. U. S. Nat. Mus. 1891, 554, San Juan Lagoon, north of Rio Aboné, Mexico.
- 2518. *Gobius smaragdus*** Cuvier & Valenciennes. *Esmeralda*.
West Indies, south to Rio Janeiro, north to St. Augustine, Florida, and to Charleston.
Gobius smaragdus Cuv. & Val., Hist. Nat. Poiss., XII, 120, 1837, Cuba.
- 2519. *Gobius strigatus*** (O'Shaughnessy).
Coast of Surinam.
Euctenogobius strigatus O'Shaughnessy, Ann. Mag. Nat. Hist., 15, 1875, 145, Nagasaki, Japan.

2520. *Gobius sagittula* (Günther).
Gulf of California, south to Panama.
Euctenogobius sagittula Günther, Proc. Zool. Soc. Lond. 1861, 3, west coast of Central America.
2521. *Gobius hastatus* Girard. *Emerald-fish; Sharp-tailed Goby.*
Gulf of Mexico.
Gobionellus hastatus Girard, Proc. Ac. Nat. Sci. Phila. 1858, 168, St. Joseph Island, Texas.
2522. *Gobius oceanicus* Pallas. *Esmeralda; Endormi; Emerande; Bacalhao Sabara.*
Gulf Coast of United States, southward through the West Indies.
Gobius oceanicus Pallas, Spicilegia, VIII, 4, 1769, locality, unknown; after Gronow.
Subgenus LYTHRYPNUS Jordan & Evermann.
Lythrypnus Jordan & Evermann, new subgenus (*dalli*).
2523. *Gobius dalli* Gilbert.
Catalina Harbor, California.
Gobius dalli Gilbert, Proc. U. S. Nat. Mus. 1890, 73, Catalina Harbor, California, in 35 fathoms.
- Genus 795. GARMANNIA Jordan & Evermann. *Half-naked Gobies.*
Garmannia Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 495, pl. 49 (*paradoxus*).
2524. *Garmannia paradoxa* (Günther).
Pacific Coast of Mexico, Mazatlan to Panama.
Gobius paradoxus Günther, Proc. Zool. Soc. Lond. 1861, 3, west coast of Central America.
2525. *Garmannia hemigymina* (Eigenmann & Eigenmann).
West Indies.
Gobius hemigyminus Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 66, dredged in the West Indies.
2526. *Garmannia seminuda* (Günther).
West coast of Central America.
Gobius seminudus Günther, Proc. Zool. Soc. Lond. 1861, 3, west Central America.
- Genus 796. RHINOGOBIUS Gill.
Rhinogobius Gill, Proc. Acad. Nat. Sc. Phila. 1859, 145 (*similis*).
2527. *Rhinogobius flavus* (Cuvier & Valenciennes).
Rivers of Surinam and Brazil, south to Bahia.
Gobius flavus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 60, 1837, Surinam.
2528. *Rhinogobius taiasica* (Lichtenstein).
West Indies, both coasts of Mexico, south to Brazil; common in Cuba, in Sinaloa, and about La Paz, in Lower California, thence southward to Panama.
Gobius taiasica Lichtenstein, Berl. Abhandl., 273, 1822 (not *Tajasica* Marcgrave), Brazil.
2529. *Rhinogobius mexicanus* (Günther).
Fresh-water streams of eastern slope of Mexico.
Gobius mexicanus Günther, Cat., III, 61, 1861, Mexico.
- Genus 797. BOLLMANNIA Jordan.
Bollmannia Jordan, Proc. U. S. Nat. Mus. 1889, 164 (*chlamydes*).
2530. *Bollmannia ocellata* Gilbert.
Gulf of California.
Bollmannia ocellata Gilbert, Proc. U. S. Nat. Mus. 1891, 555, northern part of Gulf of California at Albatross Stations 3031 and 3035, in 30 and 33 fathoms.
2531. *Bollmannia chlamydes* Jordan.
Pacific Ocean, off coast of Colombia.
Bollmannia chlamydes Jordan, Proc. U. S. Nat. Mus. 1889, 164, off coast of Colombia, at Albatross Stations 2800 and 2805, in 51½ fathoms.

- 2532. *Bollmannia macropoma* Gilbert.**
Gulf of California, just north of La Paz Bay.
Bollmannia macropoma Gilbert, Proc. U. S. Nat. Mus. 1891, 556, near La Paz, Gulf of California, at Albatross Station 2996, in 112 fathoms.
- 2533. *Bollmannia stigmatura* Gilbert.**
Northern part of the Gulf of California.
Bollmannia stigmatura Gilbert, Proc. U. S. Nat. Mus. 1891, 556, Gulf of California, at Albatross Stations 3016 and 3017, in 76 and 58 fathoms.
- Genus 798. *ABOMA* Jordan & Starks.**
Aboma Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 497 (*etheostoma*).
- 2534. *Aboma etheostoma* Jordan & Starks.**
Pacific Coast of Mexico.
Aboma etheostoma Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 498, pl. 50, Mazatlan, Mexico.
- 2535. *Aboma lucretiæ* (Eigenmann & Eigenmann).**
Pearl Island, Gulf of Panama.
Gobius lucretiæ Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 57, Pearl Island, Gulf of Panama.
- 2536. *Aboma chiquita* (Jenkins & Evermann).**
Gulf of California.
Gobius chiquita Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 146, Guaymas, Sonora.
- Genus 799. *MICROGOBIUS* Poey.**
Microgobius Poey, Enumeratio, 127, 1875 (*signatus*).
- 2537. *Microgobius gulosus* (Girard).**
Coast of Florida to Texas, common north to Indian River.
Gobius gulosus Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Indianola, Texas.
- 2538. *Microgobius eulepis* Eigenmann & Eigenmann.**
Fortress Monroe, Virginia.
Microgobius eulepis Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 69, Fortress Monroe, Virginia.
- 2539. *Microgobius thalassinus* Jordan & Gilbert.**
Charleston Harbor.
Gobius thalassinus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 612, Charleston Harbor, South Carolina.
- 2540. *Microgobius signatus* Poey.**
West Indies; common in Cuba.
Microgobius signatus Poey, Enumeratio, 127, pl. 5, fig. 3, 1875, Cuba.
- Genus 800. *ZALYPNUS** Jordan & Evermann.**
Zalypnus Jordan & Evermann, new genus (*emblematicus*).
- 2541. *Zalypnus cyclolepis* (Gilbert).**
Lower California.
Microgobius cyclolepis Gilbert, Proc. U. S. Nat. Mus. 1891, 74, Lower California.
- 2542. *Zalypnus emblematicus* (Jordan & Gilbert).**
Panama.
Gobius emblematicus Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 330, Bay of Panama.
- Genus 801. *EUCYCLOGOBIUS* Gill.**
Eucyclogobius Gill, Proc. Ac. Nat. Sci. Phila. 1862, 279 (*newberryi*).
- 2543. *Eucyclogobius newberryi* (Girard).**
Streams of California, in small brooks near the sea; locally common in San Luis Obispo Creek.
Gobius newberryi Girard, Proc. Ac. Nat. Sci. Phila. 1856, 136, Tomales Bay.

* Distinguished from *Microgobius* by its half-naked body.

Genus 802. **LEPIDOGOBIVS** Gill.*Lepidogobius* Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1859, 14 (*lepidus*).2544. **Lepidogobius lepidus** (Girard).

Pacific Coast of North America, from Vancouver Island to Lower California; rather deep water off San Francisco Bay.

Gobius gracilis Girard, Proc. Ac. Nat. Sci. Phila. 1854, San Francisco.Genus 803. **GILlichTHYS** Cooper.*Gillichthys* Cooper, Proc. Cal. Ac. Sci. 1863, 109 (*mirabilis*).2545. **Gillichthys mirabilis** Cooper. *Long-jawed Goby*.

Pacific Coast of North America, from San Francisco to Guaymas.

Gillichthys mirabilis Cooper, Proc. Cal. Ac. Sci. 1863, 109, San Diego Bay.2546. **Gillichthys detrusus** Gilbert & Scofield.

Horseshoe Bend, near mouth of Colorado River, in Mexico.

Gillichthys detrusus Gilbert & Scofield MS., 1896, near mouth of Colorado River.Genus 804. **QUIETULA** Jordan & Evermann.*Quietula* Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 839 (*y-cauda*).2547. **Quietula y-cauda** (Jenkins & Evermann).

Pacific Coast of North America, from Guaymas to Vancouver Island.

Gillichthys y-cauda Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 147, Guaymas, Sonora.Genus 805. **ILYPNUS*** Jordan & Evermann.*Ilypnus* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*gilberti*).2548. **Ilypnus gilberti** (Eigenmann & Eigenmann).

San Diego Bay and southward; abundant at Magdalena Bay, Conception Bay, and St. Georges Bay in the Gulf of California.

Lepidogobius gilberti Eigenmann & Eigenmann, Proc. U. S. Nat. Mus. 1888, 464, San Diego Bay, California.Genus 806. **CLEVELANDIA** Eigenmann & Eigenmann.*Clevelandia* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 73 (*longipinnis* = *rosæ*).2549. **Clevelandia ios** (Jordan & Gilbert).

Puget Sound and neighboring waters.

Gobiosoma ios Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 437, Saanich Arm, Vancouver Island.2550. **Clevelandia rosæ** Jordan & Evermann.

San Diego Bay.

Clevelandia rosæ Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 229, San Diego; after *Clevelandia longipinnis* Eigenmann & Eigenmann, not Steindachner.Genus 807. **EVERMANNIA** Jordan.*Evermannia* Jordan, Proc. Cal. Ac. Sci., IV, series 2, 1895, 592 (*zosterura*).2551. **Evermannia longipinnis** (Steindachner).

Gulf of California.

Gobiosoma longipinnis Steindachner, Ichth. Beitr., VIII, 27, 1879, Los Animas Island, Gulf of California.2552. **Evermannia zosterura** (Jordan & Gilbert).

Pacific Coast of Mexico at Mazatlan, Mexico.

Gobiosoma zosterurum Jordan & Gilbert, Proc. U. S. N. M. 1881, 361, Mazatlan.Genus 808. **GOBIOSOMA** Girard.*Gobiosoma* Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169 (*alepidotus*).2553. **Gobiosoma histrio** Jordan.

Known only from the Gulf of California, at Guaymas.

Gobiosoma histrio Jordan, Proc. U. S. Nat. Mus. 1884, 260, Guaymas, Mexico.* Distinguished from *Clevelandia* by the presence of flaps on the shoulder girdle.

- 2554. *Gobiosoma molestum* Girard.**
Gulf Coast of United States, from Key West to Texas, and south to Bahia.
Gobiosoma molestum Girard, Proc. Ac. Nat. Sci. Phila. 1858, 169, Indianola, Texas.
- 2555. *Gobiosoma bosci* (Lacépède).**
Atlantic Coast of United States, Cape Cod to Florida.
Gobius bosci Lacépède, Hist. Nat. Poiss., II, 555, pl. 16, fig. 1, 1798, Charleston, South Carolina.
- 2556. *Gobiosoma crescentale* Gilbert.**
Gulf of California.
Gobiosoma crescentalis Gilbert, Proc. U. S. Nat. Mus. 1891, 557, Gulf of California, at Albatross Station 2825.
- 2557. *Gobiosoma multifasciatum* Steindachner.**
West Indies; known from Cuba, St. Thomas, and the Lesser Antilles.
Gobiosoma multifasciatum Steindachner, Ichth. Beitr., v, 183, 1870, Lesser Antilles.
- Genus 809. BARBULIFER Eigenmann & Eigenmann.**
Barbulifer Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1888, 70 (*papillosus*).
- 2558. *Barbulifer ceuthæcus* (Jordan & Gilbert).**
About Key West, Florida.
Gobiosoma ceuthæcum Jordan & Gilbert, Proc. U. S. N. M. 1884, 29, Key West, Florida.
- Genus 810. TYPHLOGOBIUS Steindachner.**
Typhlogobius Steindachner, Ichth. Beitr., VIII, 24, 1879 (*californiensis*).
- 2559. *Typhlogobius californiensis* Steindachner.** *Blind Goby of Point Loma; Pink-fish.*
Coast of Lower California, from San Diego southward to Cerros Island; especially common at Point Loma.
Typhlogobius californiensis Steindachner, Ichth. Beitr., VIII, 24, 1879, False Bay, San Diego, California.
- Genus 811. TYNTLASTES Günther.**
Tyntlastes Günther, Proc. Zool. Soc. Lond. 1862, 193 (*sagitta*).
- 2560. *Tyntlastes brevis* (Günther).**
Panama.
Amblyopus brevis Günther, Proc. Zool. Soc. Lond. 1864, 151, Panama.
- 2561. *Tyntlastes sagitta* (Günther).**
Coast of Lower California.
Amblyopus sagitta Günther, Proc. Zool. Soc. Lond. 1862, 193, "California," probably from Lower California.
- Genus 812. GOBIOIDES Lacépède.**
Gobioides Lacépède, Hist. Nat. Poiss., II, 580, 1800 (*broussonnetii*).
- 2562. *Gobioides broussonnetii* Lacépède.**
West Indies to Brazil; once taken near New Orleans.
Gobioides broussonnetii Lacépède, Hist. Nat. Poiss., II, 280, 1798, probably from Surinam, "Given by Holland to France."
- 2563. *Gobioides peruanus* (Steindachner).**
Shores of Ecuador and Peru.
Amblyopus peruanus Steindachner, Fisch-Fauna des Cauca und Flüsse bei Guayaquil, 42, 1880, Guayaquil.
- Genus 813. CAYENNIA Sauvage.**
Cayennia Sauvage, Bull. Sci. Philom., series 7, IV, 1880, 57 (*guichenoti*).
- 2564. *Cayennia guichenoti* Sauvage.**
Cayenne, French Guiana.
Cayennia guichenoti Sauvage, Bull. Soc. Philom., series 7, IV, 1880, 57, Cayenne.

Group TRACHINOIDEI. The Trachinoid Fishes.

Family CLXXXVII. MALACANTHIDÆ. The Blanquillos.

Genus 814. MALACANTHUS Cuvier.

Malacanthus Cuvier, Règne Animal, ed. 2, II, 205, 1829 (*plumieri*).

2565. *Malacanthus plumieri* (Bloch). *Matajuelo Blanco*.

West Indies.

Coryphæna plumieri Bloch, Ichth., V, 119, pl. 175, 1787, Martinique; from a drawing by Plumier.

Genus 815. CAULOLATILUS Gill.

Caulolatilus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 240 (*chrysops*).

2566. *Caulolatilus princeps* (Jenyns). *Blanquillo; Whitefish*.

Rocky islands of the Pacific Coast, from Monterey southward to the Galapagos; abundant about Santa Barbara Islands.

Latilus princeps Jenyns, Zool. Beagle, Fishes, 52, 1840, Chatham Island, Galapagos Archipelago.

2567. *Caulolatilus microps* Goode & Bean.

Gulf of Mexico.

Caulolatilus microps Goode & Bean, Proc. U. S. Nat. Mus. 1878, 43, off Pensacola, Florida.

2568. *Caulolatilus cyanops* Poey. *Blanquillo*.

Coast of Cuba.

Caulolatilus cyanops Poey, Repertorio, 311, 1867, Cuba.

Genus 816. LOPHOLATILUS Goode & Bean.

Lopholatilus Goode & Bean, Proc. U. S. Nat. Mus. 1879, 205 (*chamaeleonticeps*).

2569. *Lopholatilus chamaeleonticeps* Goode & Bean. *Tilefish*.

Deep waters of the western Atlantic.

Lopholatilus chamaeleonticeps Goode & Bean, Proc. U. S. Nat. Mus. 1879, 205; 80 miles S. by E. of Nowan's Land, 40° N., 70° W., in 84 fathoms.

Family CLXXXVIII. OPISTHOGNATHIDÆ. The Jawfishes.

Genus 817. OPISTHOGNATHUS Cuvier.

Opisthognathus Cuvier, Règne Animal, ed. 2, II, 240, 1829 (*sonneratii*).

2570. *Opisthognathus lonchurus* Jordan & Gilbert.

Gulf of Mexico, in deep water; two specimens known, taken from the stomach of a red snapper at Pensacola, Florida.

Opisthognathus lonchurus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 290, Snapper Banks, off Pensacola, Florida.

2571. *Opisthognathus punctatum* Peters.

West Coast of Mexico, Mazatlan.

Opisthognathus punctata Peters, Berliner Monatsberichte, 1869, Mazatlan.

2572. *Opisthognathus macrognathum* Poey.

Florida Keys to Cuba.

Opisthognathus macrognathus Poey, Memorias, II, 284, 1860, Cuba.

2573. *Opisthognathus ommatum* Jenkins & Evermann.

Gulf of California at Bay of Guaymas.

Opisthognathus ommata Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 153, Guaymas, Sonora.

Genus 818. GNATHYPOPS Gill.

Gnathypops Gill, Proc. Ac. Nat. Sci. Phila. 1862, 241 (*marillosus*).

2574. *Gnathypops scopis* Jenkins & Evermann.

Gulf of California at Guaymas.

Gnathypops scopis Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 152, Guaymas, Sonora.

- 2575. *Gnathypops maxillosus* (Poey).**
Cuba, north to Garden Key, Florida.
Opisthognathus maxillosus Poey, *Memorias*, II, 286, 1860, Cuba.
- 2576. *Gnathypops macrops* (Poey).**
Coast of Cuba.
Opisthognathus macrops Poey, *Memorias*, II, 287, 1860, coast of Cuba.
- 2577. *Gnathypops cuvieri* (Valenciennes).**
Bahia.
Opisthognathus cuvieri Valenciennes, *Hist. Nat. Poiss.*, XI, 504, 1836, Bahia.
- 2578. *Gnathypops rhomaleus* (Jordan & Gilbert).**
Gulf of California.
Opisthognathus rhomaleus Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1881, 276, Santa Maria Cove, Lower California.
- 2579. *Gnathypops mystacinus* Jordan.**
Gulf of Mexico; known from the Pensacola "Snapper Banks," from stomachs of red snappers (*Neomanis aya*).
Gnathypops mystacinus Jordan, *Proc. U. S. Nat. Mus.* 1884, 37, Snapper Banks, off Pensacola, Florida.
- Genus 819. LONCHOPISTHUS Gill.**
Lonchopisthus Gill, *Proc. Ac. Nat. Sci. Phila.* 1862, 241 (*micrognathus*).
- 2580. *Lonchopisthus micrognathus* (Poey).**
Cuba.
Opisthognathus micrognathus Poey, *Memorias*, II, 287, 1860, Cuba.

Family CLXXXIX. BATHYMASTERIDÆ.

- Genus 820. BATHYMASTER Cope.**
Bathymaster Cope, *Proc. Amer. Philos. Soc.* 1873, 31 (*signatus*).
- 2581. *Bathymaster signatus* Cope.**
Shores of Alaska.
Bathymaster signatus Cope, *Proc. Amer. Phil. Soc.* 1873, 31, near Sitka, Alaska.
- Genus 821. RONQUILUS Jordan & Starks.**
Ronquilus Jordan & Starks, *Proc. Cal. Ac. Sci.* 1895, 838 (*jordani*).
- 2582. *Ronquilus jordani* (Gilbert).**
Alaska to Puget Sound.
Bathymaster jordani Gilbert, *Proc. U. S. Nat. Mus.* 1888, 554, Elliott Bay at Seattle; Alaska.
- Genus 822. RATHBUNELLA Jordan & Evermann.**
Rathbunella Jordan & Evermann, *Fishes N. and M. Amer.*, 1896 (*hypoplectus*).
- 2583. *Rathbunella hypoplecta* (Gilbert).**
Coast of California off the Santa Barbara Islands.
Bathymaster hypoplectus Gilbert, *Proc. U. S. Nat. Mus.* 1890, 97, coast of California, south of Point Conception, at Albatross Station 2944.

Family CXC. CHIASMODONTIDÆ. The Black Swallows.

- Genus 823. CHIASMODON Johnson.**
Chiasmodon Johnson, *Proc. Zool. Soc. Lond.* 1863, 408 (*niger*).
- 2584. *Chiasmodon niger* Johnson.**
Deep waters of the Atlantic; taken at Madeira and off Massachusetts coast.
Chiasmodon niger Johnson, *Proc. Zool. Soc. Lond.* 1863, 408, Madeira.

Genus 824. **PSEUDOSCOPELUS** Lütken.

Pseudoscopus Lütken, Spolia Atlantica, Scopelini, 64, 1892 (*scriptus*).

2585. **Pseudoscopus scriptus** Lütken.

Old Bahama Straits.

Pseudoscopus scriptus Lütken, Spolia Atlantica, Scopelini, 64, 1892, Old Bahama Straits.

Family CXCI. **CHÆNICHTHYIDÆ.**

Genus 825. **HYPSCOMETES** Goode.

Hypscometes Goode, Proc. U. S. Nat. Mus. 1880, 347 (*gobioides*).

2586. **Hypscometes gobioides** Goode.

Gulf Stream.

Hypscometes gobioides Goode, Proc. U. S. Nat. Mus. 1880, 348, Gulf Stream, at Albatross Station 871, 40° 2' 54" N., 70° 23' 40" W., in 115 fathoms.

Family CXCI. **TRICHODONTIDÆ.** The Sand-Fishes.

Genus 826. **TRICHODON** Steller.

Trichodon Steller, in Tilesius, Mém. Acad. St. Petersburg, IV, 1813, 468 (*trichodon*).

2587. **Trichodon trichodon** (Tilesius).

Herendeen Bay and elsewhere in Bering Sea, and south to coast of Oregon.

Trachinus trichodon Tilesius, Mém. Acad. St. Petersb. 1813, 466, Bering Sea.

Genus 827. **ARCTOSCOPIUS*** Jordan & Evermann.

Arctoscopus Jordan & Evermann, new genus (*japonicus*).

2588. **Arctoscopus japonicus** (Steindachner).

Strietok, in the Sea of Japan, and Sitka, Alaska.

Trichodon japonicus Steindachner, Ichth. Beitr., x, 4, 1881, Strietok and Sitka.

Family CXCI. **DACTYLOSCOPIDÆ.** The Sand Star-Gazers.

Genus 828. **GILLELLUS** Gilbert.

Gillellus Gilbert, Proc. U. S. Nat. Mus. 1890, 98 (*semicinctus*).

2589. **Gillellus semicinctus** Gilbert.

Gulf of California; also off the Florida coast.

Gillellus semicinctus Gilbert, Proc. U. S. N. M. 1890, 98, near mouth of Gulf of California, at Albatross Stations 2827, 24° 11' 45" N., 109° 55' W., and 2829, 22° 52' N., 109° 55' W., in 10 and 31 fathoms.

2590. **Gillellus arenicola** Gilbert.

Cape San Lucas, Lower California.

Gillellus arenicola Gilbert, Proc. U. S. Nat. Mus. 1890, 99, Cape San Lucas.

2591. **Gillellus ornatus** Gilbert.

Gulf of California.

Gillellus ornatus Gilbert, Proc. U. S. Nat. Mus. 1891, 558, Gulf of California.

Genus 829. **DACTYLOSCOPUS** Gill.

Dactyloscopus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 132 (*tridigitatus*).

Subgenus **DACTYLOSCOPUS** GILL.

2592. **Dactyloscopus pectoralis** Gill.

Cape San Lucas, Lower California.

Dactyloscopus pectoralis Gill, Proc. Ac. Nat. Sci. Phila. 1861, 267, Cape San Lucas, Lower California.

* Distinguished from *Trichodon* by the short spinous dorsal.

- 2593. *Dactyloscopus tridigitatus* Gill.**
West Indies, north to Key West.
Dactyloscopus tridigitatus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 132, Barbados.
- 2594. *Dactyloscopus poeyi* Gill.**
Cuba.
Dactyloscopus poeyi Gill, Proc. Ac. Nat. Sci. Phila. 1861, 266, Cuba.
- 2595. *Dactyloscopus lunaticus* Gilbert.**
Gulf of California.
Dactyloscopus lunaticus Gilbert, Proc. U. S. N. M. 1890, 99, Gulf of California.

SUBGENUS *ESLOSCOPUS* Jordan & Evermann.

Esloscopus Jordan & Evermann, new subgenus (*zelotes*).

- 2596. *Dactyloscopus zelotes* Jordan & Gilbert.**
Panama.
Dactyloscopus zelotes Jordan & Gilbert new species, Panama.
- Genus 830. *DACTYLAGNUS* Gill.**
Dactylagnus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 505 (*mundus*).
- 2597. *Dactylagnus mundus* Gill.**
Carmen Island, Gulf of California.
Dactylagnus mundus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 505, Carmen Island, Gulf of California.

Genus 831. *MYXODAGNUS* Gill.

Myxodagnus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 269 (*opercularis*)

- 2598. *Myxodagnus opercularis* Gill.**
Cape San Lucas, Lower California.
Myxodagnus opercularis Gill, Proc. Ac. Nat. Sci. Phila. 1861, 270, Cape San Lucas, Lower California.

Family CXIV. URANOSCOPIDÆ. The Star-Gazers.

Genus 832. *ASTROSCOPUS* (Brevoort) Gill. *Star-gazers*.

Astroscopus (Brevoort) Gill, Proc. Ac. Nat. Sci. Phila. 1860, 20 (*anoplus*).

- 2599. *Astroscopus y-græcum* (Cuvier & Valenciennes).**
South Atlantic Coast, from Cape Hatteras to the Caribbean Sea.
Uranoscopus y-græcum Cuvier & Valenciennes, Hist. Nat. Poiss., III, 308, 1829, origin unknown.
- 2600. *Astroscopus zephyrius* Gilbert & Starks.**
Magdalena Bay, Lower California.
Astroscopus zephyrius Jordan & Starks, Proc. U. S. Nat. Mus. 1896, Magdalena Bay, Lower California.
- 2601. *Astroscopus guttatus* Abbott.**
Atlantic Coast of the United States, from Long Island to Virginia; not known south of Cape Hatteras.
Astroscopus guttatus Abbott, Proc. Ac. Nat. Sci. Phila. 1860, 365, Cape May, New Jersey.

Genus 833. *KATHETOSTOMA* Günther.

Kathetostoma Günther, Cat., II, 231, 1860 (*lave*).

- 2602. *Kathetostoma averruncus* Jordan & Bollman.**
Pacific Ocean, off coast of Colombia.
Kathetostoma averruncus Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 163; off coast of Colombia, 8° 57' N., 79° 31' 30" W., at Albatross Station 2800, in 7 fathoms.

*Subgenus and species based on description of *Dactyloscopus* sp. nov., Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 628; not *D. mundus* Gill, Proc. Ac. Nat. Sci. 1862, 505.

2603. *Kathetostoma albigutta* Bean.

Gulf of Mexico.

Kathetostoma albigutta Bean, Proc. U. S. Nat. Mus. 1892, 121, Gulf of Mexico, at Albatross Station 2403, 28° 42' 30" N., 85° 29' W.

Family CXCIV. **BATRACHOIDIDÆ** The Toadfishes.

Genus 834. **BATRACHOIDES** Lacépède.

Batrachoides Lacépède, Hist. Nat. Poiss., II, 451, 1800 ("tau" Lacépède = *surinamensis*).

2604. *Batrachoides surinamensis* (Bloch & Schneider).

Coast of Guiana and Brazil.

Batrachus surinamensis Bloch & Schneider, Syst. Ichth., 43, 1801, Surinam, from a specimen in the museum of Paris.

2605. *Batrachoides pacifici* (Günther).

Panama.

Batrachus pacifici Günther, Cat., III, 173, 1861, Panama.

Genus 835. **OPSANUS** Rafinesque. *Toadfishes*.

Opsanus Rafinesque, Amer. Monthly Mag. 1817, 203 (*cerapalus*).

2606. *Opsanus tau* (Linnaeus). *Toadfish*.

Atlantic Coast from Massachusetts to the West Indies.

Gadus tau Linnaeus, Syst. Nat., ed. XII, 439, 1766, Charleston, South Carolina.

2607. *Opsanus pardus* (Goode & Bean). *Sargo*.

Gulf of Mexico.

Batrachus tau pardus Goode & Bean, Proc. U. S. Nat. Mus. 1879, 336, Pensacola Snapper Banks.

Genus 836. **PORICHTHYS** Girard. *Midshipmen*.

Porichthys Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141 (*notatus*).

2608. *Porichthys porosissimus* Cuvier & Valenciennes. *Bagre Sapo*.

South Carolina to Montevideo; Pensacola.

Batrachus porosissimus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 501, 1837, Surinam, Cayenne, Rio Janeiro, and St. Catherine.

2609. *Porichthys notatus* Girard. *Singing-fish; Midshipman; Cabezon; Sapo*.

Pacific Coast from Puget Sound to Panama.

Porichthys notatus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141, San Francisco.

2610. *Porichthys margaritatus* (Richardson).

Pacific Coast of tropical America.

Batrachus margaritatus Richardson, Voyage of the Sulphur, Fishes, 1845-1867, Pacific Coast of Central America.

Genus 837. **THALASSOPHRYNE** Günther. *Poison Toadfishes*.

Thalassophryne Günther, Cat., III, 174, 1861 (*maculosa*).

2611. *Thalassophryne maculosa* Günther.

Caribbean Sea.

Thalassophryne maculosa Günther, Cat., III, 175, 1861, Puerto Cabello, near Aspinwall.

2612. *Thalassophryne reticulata* (Günther).

Panama.

Thalassophryne reticulata Günther, Proc. Zool. Soc. Lond. 1864, 150, 155, Panama.

2613. *Thalassophryne dowi* Jordan & Gilbert.

Pacific Coast of North America, from Punta Arenas to Panama.

Thalassophryne dowi Jordan & Gilbert, Proc. U. S. Nat. Mus. 1887, 388, Punta Arenas.

Group **BLENNIOIDEI**. The Blennioid Fishes.Family **CXCVI**. **BLENNIDÆ**. The Blennies.Genus 838. **ENNEANECTES** Jordan & Evermann.

Enneanectes Jordan & Evermann, Proc. Cal. Ac. Sci. 1895, 501 (*carminale*).

2614. Enneanectes carminalis (Jordan & Gilbert).

Mazatlan, Mexico.

Tripterygium carminale Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 362, Mazatlan.

Genus 839. **HETEROSTICHUS** Girard.

Heterostichus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143 (*rostratus*).

2615. Heterostichus rostratus Girard.

Coast of California from San Francisco to San Diego.

Heterostichus rostratus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 143, San Diego, California.

Genus 840. **GIBBONSIA** Cooper.

Gibbonsia Cooper, Proc. Cal. Ac. Sci., III, 1864, 109 (*elegans*).

2616. Gibbonsia evides (Jordan & Gilbert). *Kelpfish*; *Senorita*.

Coast of California, south to Point Conception.

Clinus evides Jordan & Gilbert, Synopsis, 763, 1883, Monterey, California.

2617. Gibbonsia elegans (Cooper).

Coast of southern California; Point Conception to Todos Santos.

Myxodes elegans Cooper, Proc. Cal. Ac. Sci., III, 1864, 109, San Diego; Santa Barbara.

Genus 841. **NEOCLINUS** Girard.

Neoclinus Girard, U. S. Pac. R. R. Surv., Fish., x, 114, 1858 (*blanchardi*).

Subgenus **NEOCLINUS** Girard.**2618. Neoclinus blanchardi** Girard.

Coast of California, Monterey to San Diego.

Neoclinus blanchardi Girard, U. S. Pac. R. R. Surv., Fish., 114, 1858, off San Diego, California.

Subgenus **PTEROGNATHUS** Girard.

Pterognathus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 57 (*satiricus*).

2619. Neoclinus satiricus Girard.

Coast of California, from Monterey to Santa Barbara.

Neoclinus satiricus Girard, Proc. Ac. Nat. Sci. Phila. 1859, 57, Monterey Bay.

Genus 842. **MALACOTENUS** Gill.

Malacotenus Gill, Proc. Ac. Nat. Sci. Phila. 1860, 103 (*delalandi*).

2620. Malacotenus ocellatus (Steindachner).

Bahama Islands.

Clinus ocellatus Steindachner, Ichth. Beitr., v, 182, 1876, Bahama Islands.

2621. Malacotenus varius (Poey).

Cuba.

Myxodes varius Poey, Enumeratio, 1, 132, 5, fig. 2, 1875, Havana.

2622. Malacotenus macropus (Poey).

Cuba.

Myxodes macropus Poey, Synopsis, III, 99, 1868, Havana.

2623. Malacotenus lugubris (Poey).

Cuba.

Myxodes lugubris Poey, Enumeratio, 131, 1875, Cuba.

2624. Malacotenus gilli (Steindachner).

Barbados.

Clinus gilli Steindachner, Ichth. Notizen, VI, 46, 1867, Barbados.

- 2625. *Malacoctenus bimaculatus*** (Steindachner).
Small rocky islands north of Cuba.
Clinus bimaculatus Steindachner, Ichth. Beitr., v, 180, 1876, islands off Cuba.
- 2626. *Malacoctenus delalandi*** (Cuvier & Valenciennes).
Coast of Brazil and the west coast of Mexico.
Clinus delalandi Cuvier & Valenciennes, Hist. Nat. Poiss., 378, 1836, Brazil.
- 2627. *Malacoctenus versicolor*** (Poey).
Cuba.
Myzodes versicolor Poey, Enumeratio, I, 131, 5, fig. 1, 1875, Cuba.
- 2628. *Malacoctenus biguttatus*** (Cope).
New Providence, Bahamas.
Labrisomus biguttatus Cope, Trans. Amer. Philos. Soc. Phila. 1873, 473, New Providence, Bahamas.
- Genus 843. *LABRISOMUS*** Swainson.
Labrisomus Swainson, Nat. Hist. Classn. Fishes, II, 277, 1839 (*peotinifer*).
- 2629. *Labrisomus herminier*** (LeSueur).
St. Bartholomew; West Indies.
Blennius herminier LeSueur, Jour. Ac. Nat. Sci. Phila., IV, 1824, 361, St. Bartholomew.
- 2630. *Labrisomus nuchipinnis*** (Quoy & Gaimard).
West Indies; South Atlantic Coast.
Clinus nuchipinnis Quoy & Gaimard, Voy. Urania, Zool., 1824, Brazil.
- 2631. *Labrisomus xanti*** Gill.
La Paz, Lower California.
Labrosomus xanti Gill, Proc. Ac. Nat. Sci. Phila. 1860, 107, Cerro Blanco, Cape San Lucas.
- 2632. *Labrisomus bucciferus*** Poey.
Cuba.
Labrisomus bucciferus Poey, Synopsis, 399, 1868, Cuba.
- 2633. *Labrisomus microlepidotus*** Poey.
Cuba.
Labrisomus microlepidotus Poey, Anal. Soc. Eps. Hist. Nat., XIX?, 246, I, 8, fig. 2, 1880, Cuba.
- Genus 844. *MNIERPES**** Jordan & Evermann.
Mnierpes Jordan & Evermann, new genus (*macrocephalus*).
- 2634. *Mnierpes macrocephalus*** (Günther).
Pacific Coast of Central America; Panama.
Clinus macrocephalus Günther, Cat., III, 267, 1861, Pacific Coast of Central America.
- Genus 845. *GOBIOCLINUS*** Gill.
Gobioclinus Gill, Proc. Ac. Nat. Sci. Phila. 1860, 102 (*gobio*).
- 2635. *Gobioclinus gobio*** (Cuvier & Valenciennes).
Lesser Antilles.
Clinus gobio Cuvier & Valenciennes, Hist. Nat. Poiss., XI, 395, 1836, Lesser Antilles.
- Genus 846. *STARKSIA*** Jordan & Evermann.
Starksia Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 231 (*cremnobates*).
- 2636. *Starksia cremnobates*** (Gilbert).
Gulf of California.
Labrosomus cremnobates Gilbert, Proc. U. S. N. M. 1890, 100, Gulf of California.

* Distinguished from *Labrisomus* by the elongate form.

Genus 847. CRYPTOTREMA Gilbert.*Cryptotrema* Gilbert, Proc. U. S. Nat. Mus. 1890, 101 (*corallinum*).**2637. Cryptotrema corallinum** Gilbert.

Coast of California, south of Point Conception.

Cryptotrema corallinum Gilbert, Proc. U. S. Nat. Mus. 1890, 101, coast of California, south of Point Conception.**Genus 848. EXERPES** Jordan & Evermann.*Exerpes* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 232 (*asper*).**2638. Exerpes asper** (Jenkins & Evermann).

Guaymas, Mexico.

Auchenopterus asper Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 154, Guaymas, Mexico.**Genus 849. AUCHENOPTERUS** Günther.*Auchenopterus* Günther, Cat., III, 275, 1861 (*monophthalmus*).**2639. Auchenopterus altivelis** (Lockington).

La Paz, Lower California.

Cremnobates altivelis Lockington, Proc. Ac. Nat. Sci. Phila. 1881, 116, La Paz, Lower California.**2640. Auchenopterus marmoratus** (Steindachner).

Florida Keys to Cuba; Key West.

Cremnobates marmoratus Steindachner, Ichth. Beitr., v, 174, pl. 12, fig. 6, 1876, near Cuba.**2641. Auchenopterus affinis** (Steindachner).

West Indies; Key West; St. Thomas.

Cremnobates affinis Steindachner, Ichth. Beitr., v, 178, 1876, St. Thomas.**2642. Auchenopterus monophthalmus** Günther.

Gulf of California to Panama.

Auchenopterus monophthalmus Günther, Cat., III, 275, 1861, Panama.**2643. Auchenopterus integripinnis** (Rosa Smith).

Coast of California, and southward to Todos Santos.

Cremnobates integripinnis Rosa Smith, Proc. U. S. Nat. Mus. 1880, 147, La Jolla, near San Diego.**2644. Auchenopterus nigripinnis** (Steindachner).

Barbados.

Clinus nigripinnis Steindachner, Ichth. Notizen, VI, 46, 1867, Barbados.**2645. Auchenopterus fasciatus** (Steindachner).

Florida Straits; north to Key West.

Cremnobates fasciatus Steindachner, Ichth. Beitr., v, 176, 1876, Florida Straits.**2646. Auchenopterus nox** (Jordan & Gilbert).

Key West.

Cremnobates nox Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 30, Key West.**Genus 850. PARACLINUS** Mocquard.*Paraclinus* Mocquard, Bull. Soc. Philom. Paris 1886, 41 (*chaperi*).**2647. Paraclinus chaperi** Mocquard.

Bay of Quanta, near Barcelona, in Venezuela.

Paraclinus chaperi Mocquard, Bull. Soc. Philom. Paris 1886, 41, Bay of Quanta, Venezuela.**Genus 851. BLENNIUS** (Artedi) Linnæus. *Blennies*.*Blennius* (Artedi) Linnæus, Syst. Nat., ed. x, 256, 1758 (*galerita*).**Subgenus LIPOPHRYS** Gill.*Lipophrys* Gill, Amer. Nat., June, 1896, 498 (*pholis*).**2648. Blennius carolinus** (Cuvier & Valenciennes).

South Carolina.

Pholis carolinus Cuv. & Val., Hist. Nat. Poiss., XI, 276, 1836, Carolina.

Subgenus **BLENNIUS** (Arted) Linnæus.

- 2649. *Blennius fucorum*** Cuvier & Valenciennes.
Off the Azores; also off New York.
Blennius fucorum Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 263, 1836,
240 miles south of the Azores.
- 2650. *Blennius stearnsi*** Jordan & Gilbert.
Gulf of Mexico.
Blennius stearnsi Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 300, Pensa-
cola Snapper Banks.
- 2651. *Blennius favosus*** Goode & Bean.
Gulf of Mexico; Garden Key, Florida.
Blennius favosus Goode & Bean, Proc. U. S. Nat. Mus. 1882, 416, Garden
Key, Florida.
- 2652. *Blennius marmoreus*** Poey.
Cuba.
Blennius marmoreus Poey, Enumeratio, 130, 1875, Cuba.
- 2653. *Blennius truncatus*** (Poey).
Cuba.
Blennius truncatus Poey, Memorias, II, 424, 1861, Cuba.
- 2654. *Blennius vinctus*** Poey.
Cuba.
Blennius vinctus Poey, Repertorio, 243, 1867, Havana.
- 2655. *Blennius cristatus*** Linnæus.
Tropical parts of the Atlantic.
Blennius cristatus Linnæus, Syst. Nat., ed. x, 256, 1758, Indies; after Gronow.
Genus 852. **SCARTELLA** Jordan.
Scartella Jordan, Proc. U. S. Nat. Mus. 1886, 50 (*microstoma*).
- 2656. *Scartella microstoma*** (Jordan).
Cuba.
Blennius microstomus Poey, Memorias, II, 288, 1860, Cuba.
Genus 853. **HYPLEUROCHILUS** Gill.
Hypleurochilus Gill, Proc. Ac. Nat. Sci. Phila. 1861, 168 (*geminatus*).
- 2657. *Hypleurochilus geminatus*** (Wood).
South Atlantic and Gulf coasts of United States.
Blennius geminatus Wood, Jour. Ac. Nat. Sci. Phila., IV, 1824, 278, Charleston,
South Carolina.
Genus 854. **HYPSOBLENNIUS** Gill.
Hypsoblennius Gill, Cat. Fishes East Coast U. S., 20, 1861 (*hentzi*).
- 2658. *Hypsoblennius gilberti*** (Jordan).
California, from Point Conception southward to Todos Santos.
Isestes gilberti Jordan, Proc. U. S. Nat. Mus. 1882, 349, Santa Barbara, Cal.
- 2659. *Hypsoblennius gentilis*** (Girard).
Coast of California from Monterey to Cape San Lucas.
Blennius gentilis Girard, Proc. Ac. Nat. Sci. Phila. 1854, 149, Monterey, Cal.
- 2660. *Hypsoblennius striatus*** (Steindachner).
Panama.
Blennius striatus Steindachner, Ichth. Beitr., v, 15, 1876, Panama.
- 2661. *Hypsoblennius ionthas*** (Jordan & Gilbert).
Pensacola, Florida.
Isestes ionthas Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 299, Pensacola.
- 2662. *Hypsoblennius scrutator*** Jordan & Gilbert.
South Carolina to Texas.
Isestes scrutator Jordan & Gilbert, Proc. U. S. N. M. 1882, 300, Pensacola, Fla.

- 2663. *Hypsoblennius punctatus* (Wood).**
Coast of North and South Carolina.
Blennius punctatus Wood, Jour. Ac. Nat. Sci. Phila., iv, 1824, 279, Charleston, South Carolina.
- 2664. *Hypsoblennius brevipinnis* (Günther).**
Pacific Coast of Mexico, from Mazatlan to Panama.
Blennius brevipinnis Günther, Cat., III, 226, 1861, west coast Central America.
- Genus 855. CHASMODES Cuvier & Valenciennes.**
Chasmodes Cuv. & Val., Hist. Nat. Poiss., xi, 295, 1836 (*bosquianus*).
- 2665. *Chasmodes jenkinsi* Jordan & Evermann.**
Gulf of California.
Chasmodes jenkinsi Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, Bay of Guaymas, Sonora.
- 2666. *Chasmodes saburræ* Jordan & Gilbert.**
Pensacola Bay, Florida.
Chasmodes saburræ Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 298, Pensacola, Florida.
- 2667. *Chasmodes bosquianus* (Lacépède).**
New York to Florida.
Blennius bosquianus Lacépède, Hist. Nat. Poiss., II, 493, 1800, South Carolina.
- 2668. *Chasmodes quadrifasciatus* (Wood).**
Probably South Atlantic Coast of United States.
Pholis quadrifasciatus Wood, Jour. Ac. Nat. Sci. Phila., iv, 1824, 282, locality unknown, probably South Carolina.
- Genus 856. ATOPOCLINUS Vaillant.**
Atopoclinus Vaillant, Bull. Soc. Philom. 1894, 73 (*ringens*).
- 2669. *Atopoclinus ringens* Vaillant.**
Gulf of California.
Atopoclinus ringens Vaillant, Bull. Soc. Philom. 1894, 74, Gulf of California.
- Genus 857. RUNULA Jordan & Bollman.**
Runula Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 171 (*azalea*).
- 2670. *Runula azalea* Jordan & Bollman.**
Galapagos Archipelago.
Runula azalea Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 171, Indefatigable Island, Galapagos Archipelago.
- Genus 858. SCARTES* Jordan & Evermann.**
Scartes Jordan & Evermann, new genus (*rubropunctatus*).
- 2671. *Scartes rubropunctatus* (Cuvier & Valenciennes).**
Coast of Peru and Chile, north to Panama.
Salarias rubropunctatus Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 348, 1836, Juan Fernandez.
- Genus 859. RUPISCARTES Swainson.**
Rupiscartes Swainson, Classn. Fishes, II, 275, 1839 (*atlanticus*).
- 2672. *Rupiscartes atlanticus* (Cuvier & Valenciennes).**
Tropical America, on both coasts, north to West Indies and to Todos Santos.
Salarias atlanticus Cuvier & Valenciennes, Hist. Nat. Poiss., xi, 321, 1836, Atlantic Ocean.
- Genus 860. ENTOMACRODUS Gill.**
Entomacrodus Gill, Proc. Ac. Nat. Sci. Phila. 1859, 168 (*nigricans*).
- 2673. *Entomacrodus chiostrictus* (Jordan & Gilbert).**
Pacific Coast of Mexico.
Salarias chiostrictus Jordan & Gilbert, Synopsis, 363, 1883, Mazatlan, Mexico.

* Differs from *Salarias* (*quadripinnis*) in the continuous dorsal; no posterior canines.

2674. *Entomacrodus margaritaceus* (Poey).
Cuba.
Salarias margaritaceus Poey, *Memorias*, II, 289, 1861, Cuba.
2675. *Entomacrodus decoratus* Poey.
Cuba.
Entomacrodus decoratus Poey, *Synopsis*, 398, 1868, Cuba.
2676. *Entomacrodus nigricans* Gill.
West Indies.
Entomacrodus nigricans (Gill, *Proc. Ac. Nat. Sci. Phila.* 1859, 168, Barbados.
- Genus 861. **SALARIICHTHYS** Guichenot.
Salariichthys Guichenot, *Mém. Soc. Sci. Nat. Cher.*, XIII, 1867, 96 (*textilis*).
2677. *Salariichthys textilis* Quoy & Gaimard.
West Indies, from Bermudas to Brazil.
Salarias textilis Quoy & Gaimard, in Cuvier & Valenciennes, *Hist. Nat. Poiss.*, XI, 307, 1836, Ascension Island.
- Genus 862. **OPHIOBLENNIUS** Gill.
Ophioblennius Gill, *Proc. Ac. Nat. Sci. Phila.* 1860, 103 (*webbii*), substitute for *Blennophis Valenciennes (webbii)*, not *Blennophis Swainson*, a genus of *Clinidæ*.
2678. *Ophioblennius webbii* (Valenciennes).
West Indies and Canary Islands.
Blennophis webbii Valenciennes, in Webb & Berthelot, *Iles Canaries*, 1836, Canary Islands.
2679. *Ophioblennius steindachneri* Jordan & Evermann.
West coast of Mexico.
Ophioblennius steindachneri Jordan & Evermann, *Fishes North and Middle America*, 1896, Mazatlan.

Family CXCVII. **CHÆNOPSIDÆ.**

- Genus 863. **EMBLEMARIA** Jordan & Gilbert.
Emblemaria Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1883, 627 (*nivipes*).
2680. *Emblemaria atlantica* Jordan & Evermann.
Gulf of Mexico; Snapper Banks off Pensacola.
Emblemaria atlantica Jordan & Evermann, *Fishes North and Middle America*, 1896, Gulf of Mexico.
2681. *Emblemaria nivipes* Jordan & Gilbert.
Pearl Island, near Panama.
Emblemaria nivipes Jordan & Gilbert, *Proc. U. S. Nat. Mus.* 1883, 627, Pearl Island, near Panama.
- Genus 864. **LUCIOBLENNIUS** Gilbert.
Lucioblennius Gilbert, *Proc. U. S. Nat. Mus.* 1890, 103 (*alepidotus*).
2682. *Lucioblennius alepidotus* Gilbert.
Gulf of California,
Lucioblennius alepidotus Gilbert, *Proc. U. S. N. M.* 1890, 103, Lower California.
- Genus 865. **PHOLIDICHTHYS** Bleeker.
Pholidichthys Bleeker, *Boeroe*, 406, 1857 (*leucotania*).
2683. *Pholidichthys anguilliformis* Lockington.
Gulf of California.
Pholidichthys anguilliformis Lockington, *Proc. Ac. Nat. Sci. Phila.* 1881, 118, San Jose Island, Lower California.
- Genus 866. **PÆDNOBLENNIUS** Jenkins & Evermann.
Pædnoblennius Jenkins & Evermann, *Proc. U. S. N. M.* 1888, 156 (*hypacanthus*).
2684. *Pædnoblennius hypacanthus* Jenkins & Evermann.
Guaymas, Sonora.
Pædnoblennius hypacanthus Jenkins & Evermann, *Proc. U. S. Nat. Mus.* 1888, 156, Guaymas, Mexico.

Genus 867. **CHÆNOPSIS** Gill.*Chænopsis* Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1865, 141, pl. 3, fig. 3 (*ocellatus*).2685. **Chænopsis ocellatus** Poey.

Matanzas, Cuba.

Chænopsis ocellatus Poey, in Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1867, 143, Matanzas, Cuba.Family CXCVIII. **XIPHIDIIDÆ.**Genus 868. **STATHMONOTUS** Bean.*Stathmonotus* Bean, Proc. U. S. Nat. Mus. 1888, 191 (*hemphillii*).2686. **Stathmonotus hemphillii** Bean.

Key West, Florida.

Stathmonotus hemphillii Bean, Proc. U. S. Nat. Mus. 1888, 191, pl. 13, Key West, Florida.Genus 869. **BRYOSTEMMA** Jordan & Williams.*Bryostemma* Jordan & Williams, in Jordan & Evermann, Fishes North and Middle America, 1896 (*nugator*).2687. **Bryostemma polyactocephalum** (Pallas).

Kamchatka to Puget Sound.

Blennius polyactocephalus Pallas, Zool. Rosso-Asiat., III, 179, 1811, Kamchatka.2688. **Bryostemma nugator** Jordan & Williams.

Near Seattle, Washington.

Bryostemma nugator Jordan & Williams, in Jordan & Evermann, Fishes North and Middle America, 1896, Puget Sound.Genus 870. **BLENNIOPHIDIUM** Boulenger.*Blenniophidium* Boulenger, Proc. Zool. Soc. Lond. 1892, 583 (*petropauli*).2689. **Blenniophidium petropauli** Boulenger.

Kamchatka.

Blenniophidium petropauli Boulenger, Proc. Zool. Soc. Lond. 1892, 584, Petropaulovski Harbor, Kamchatka.Genus 871. **APODICHTHYS** Girard.*Apodichthys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 150 (*flavidus*).2690. **Apodichthys flavidus** Girard.

Point Conception to Vancouver Island.

Apodichthys flavidus Girard, Proc. Ac. Nat. Sci. 1854, 150, Presidio (San Francisco), California.2691. **Apodichthys univittatus** Lockington.

Gulf of California.

Apodichthys univittatus Lockington, Proc. Ac. Nat. Sci. Phila. 1881, 118, Gulf of California.Genus 872. **XERERPES** Jordan & Gilbert.*Xererpes* Jordan & Gilbert, Proc. Cal. Ac. Sci. 1895, 846 (*fucorum*).2692. **Xererpes fucorum** (Jordan & Gilbert).

Coast of California.

Apodichthys fucorum Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 139, Los Pinos Point, near Monterey, California.Genus 873. **ULVICOLA** Gilbert & Starks.*Ulvicola* Gilbert & Starks, Proc. U. S. Nat. Mus. 1896 (*sancta-rosa*).2693. **Ulvicola sanctæ-rosæ** Gilbert & Starks.

Santa Rosa Island, coast of California.

Ulvicola sanctæ-rosæ Gilbert & Starks, Proc. U. S. Nat. Mus. 1896, Santa Rosa Island, California.

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Genus 874. **PHOLIS** (Gronow) Scopoli.

Pholis (Gronow) Scopoli, *Introductio* Hist. Nat. 456, 1777 (*gunnellus*).

2694. **Pholis gunnellus** (Linnaeus). *Gunnell*; *Butter-fish*.

North Atlantic, south to Cape Cod.

Blennius gunnellus Linnaeus, *Syst. Nat.*, ed. xii, i, 443, 1766, Atlantic Ocean.

2695. **Pholis fasciatus** (Bloch & Schneider).

Greenland to Alaska.

Centronotus fasciatus Bloch & Schneider, 165, pl. 37, fig. 1, 1801.

2696. **Pholis ornatus** (Girard).

San Francisco to Alaska.

Gunnellus ornatus Girard, *Proc. Ac. Nat. Sci. Phila.* 1854, 149, Presidio (San Francisco), California.

2697. **Pholis maxillaris** (Bean).

St. Paul Island, Alaska.

Muraenoides maxillaris Bean, *Proc. U. S. Nat. Mus.* 1881, 147, St. Paul Island, Alaska.

Genus 875. **RHODYMENICHTHYS** Jordan & Evermann.

Rhodymenichthys Jordan & Evermann, new genus (*ruberrimus*).

2698. **Rhodymenichthys dolichogaster** (Pallas).

Kamchatka and Aleutian Islands.

Blennius dolichogaster Pallas, *Zoogr. Rosso-Asiat.*, iii, 175, 1811, Kamchatka.

2699. **Rhodymenichthys ruberrimus** (Cuvier & Valenciennes).

Bering Sea and neighboring waters; Kuril Islands and Robben Island; also from Copper and Bering islands.

Gunnellus ruberrimus Cuvier & Valenciennes, *Hist. Nat. Poiss.*, xiv, 440, Kuril Islands (after Pallas).

2700. **Rhodymenichthys tænia** (Pallas).

Kuril Islands.

Blennius tænia Pallas, *Zoogr. Rosso-Asiat.*, iii, 178, 1811, Kuril Islands.

Genus 876. **GUNNELLOPS** Bleeker.

Gunnellops Bleeker, 1874 (*rosceus*).

2701. **Gunnellops roseus** (Pallas).

Kuril Islands.

Blennius roseus Pallas, *Zoogr. Rosso-Asiat.*, iii, 178, 1811, Kuril Islands.

Genus 877. **ASTERNOPTERYX** Ruppell.

Asternoptyryx Ruppell, in Günther, *Cat.*, iii, 288, 1861 (*gunnelliformis*).

2702. **Asternoptyryx gunnelliformis** Ruppell.

Greenland.

Asternoptyryx gunnelliformis Ruppell, in Günther, *Cat.*, iii, 288, 1861, probably from Greenland; type in Senchenberg Museum.

2703. **Asternoptyryx ocellatus** (Tilesius).

Kamchatka.

Ophidium ocellatus Tilesius, *Mém. Ac. St. Petersb.*, ii, 237, 1811, Kamchatka.

Genus 878. **ANOPLARCHUS** Gill.

Anoplarchus Gill, *Proc. Ac. Nat. Sci. Phila.* 1861, 261 (*atropurpureus*).

2704. **Anoplarchus atropurpureus** (Kittlitz).

Alaska to San Francisco.

Ophidium atropurpureum Kittlitz, *Denkwürd. einer Reise Russ.-Amer.*, i, 225, 1858.

2705. **Anoplarchus alectrolophus** (Pallas).

Island of Talek, Gulf of Peshin.

Blennius alectrolophus Pallas, *Zoogr. Rosso-Asiat.*, iii, 174, 1811, island of Talek.

Genus 879. **XIPHISTES** Jordan & Starks.*Xiphistes* Jordan & Starks, Proc. Cal. Ac. Sci. 1895, 846 (*chirus*).2706. **Xiphistes ulvæ** Jordan & Starks.

Waadda Island, Neah Bay.

Xiphistes ulvæ Jordan & Starks, Fishes Puget Sound, in Proc. Cal. Ac. Sci. 1895, 847, pl. 102, Waadda Island, Neah Bay.2707. **Xiphistes chirus** (Jordan & Gilbert).

Monterey to Alaska.

Xiphistes chirus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 135, Los Pinos Point, near Monterey, California.Genus 880. **XIPHIDIION** Girard.*Xiphidion* Girard, Pac. R. R. Surv., x, 119, 1858 (*mucosum*).2708. **Xiphidion mucosum** Girard.

Monterey to Alaska.

Xiphidion mucosum Girard, Pac. R. R. Surv., 119, 1858, South Farallone Island, off California.2709. **Xiphidion rupestre** (Jordan & Gilbert).

Pacific Coast, from Alaska to Monterey.

Xiphistes rupestris Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 137, Monterey, California.Genus 881. **CEBEDICHTHYS** Ayres.*Cebedichthys* Ayres, Proc. Cal. Ac. Sci., 1, 1855, 59 (*violaceus*).2710. **Cebedichthys violaceus** (Girard).

San Francisco to Point Conception.

Apodichthys violaceus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 150, Monterey, California.Genus 882. **PLAGIOGRAMMUS** Bean.*Plagiogrammus* Bean, Proc. U. S. Nat. Mus. 1893, 699 (*hopkinsi*).2711. **Plagiogrammus hopkinsi** Bean.

Monterey, California.

Plagiogrammus hopkinsi Bean, Proc. U. S. Nat. Mus. 1893, 699, plate, Monterey Bay, California.Family **CXCIX. STICHÆIDÆ.**Genus 883. **EUMESOGRAMMUS** Gill.*Eumesogrammus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 210 (*præcisus*).2712. **Eumesogrammus præcisus** (Krøyer).

Greenland.

Clinus præcisus Krøyer, Naturh. Tidsskr., 1, 25, 1836, Greenland.Genus 884. **ULVARIA*** Jordan & Evermann.*Ulvaria* Jordan & Evermann, new genus (*subbifurcata*).2713. **Ulvaria subbifurcata** (Storer).

North Atlantic, south to Cape Cod.

Pholis subbifurcatus Storer, Rept. Fish. Mass., 63, 1839 (Massachusetts).Genus 885. **STICHÆUS** Reinhardt.*Stichæus* Reinhardt, Dansk. Vidensk. Natur. og Math. Afhandl. 1837, 109 (*punctatus*).2714. **Stichæus punctatus** (Fabricius).

Polar seas, south to Cape Cod and Alaska.

Blennius punctatus Fabricius, Fauna Græn., 153, 1870, Greenland.* Distinguished from *Eumesogrammus* by the lateral line, which forks into two.

Genus 886. **LEPTOCLINUS** Gill.*Leptoclinus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 209 (*maculatus*).2715. **Leptoclinus maculatus** (Fries).

Greenland to Spitzbergen.

Clinus maculatus Fries, Kgl. Vet. Ak. Handl. 1837, 49, Greenland.Genus 887. **POROCLINUS** Bean.*Poroclinus* Bean, Proc. U. S. Nat. Mus. 1890, 40 (*rothroeki*).2716. **Poroclinus rothroeki** Bean.

Between Nagia and Big Koniushi islands, Alaska.

Poroclinus rothroeki Bean, Proc. U. S. Nat. Mus. 1890, 40, Albatross Station
2852, latitude 55° 15' N., longitude 159° 37' W., in 58 fathoms.Genus 888. **ANISARCHUS** Gill.*Anisarchus* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 209 (*medius*).2717. **Anisarchus medius** (Reinhardt).

Greenland to Norway and Spitzbergen.

Clinus medius Reinhardt, Dansk. Vidensk. Afh. 1838, 114, Greenland.Genus 889. **LUMPENUS** Reinhardt.*Lumpenus* Reinhardt, Dansk. Vidensk. Selsk. Natur. 1837, 110 (*lumpenus*).2718. **Lumpenus anguillaris** (Pallas).

San Francisco to Alaska.

Blennius anguillaris Pallas, Zoogr. Rosso-Asiat., III, 176, 1811, about Kam-
chatka; no definite locality.2719. **Lumpenus lumpenus** (Fabricius).

Greenland.

Blennius lumpenus Fabricius, Fauna Grænl., 151, 1870, Greenland.2720. **Lumpenus mackayi** (Gilbert).

Nushagak River, Alaska.

Leptoblennius mackayi Gilbert, Rept. U. S. Fish Com. 1893 (1896), 450, pl. 32,
Nushagak River, Alaska.Genus 890. **LEPTOBLENNIUS** Gill.*Leptoblennius* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 21 (*serpentinus*).Subgenus **LEPTOBLENNIUS** Gill.2721. **Leptoblennius serpentinus** (Storer).

Cape Cod to Greenland.

Blennius serpentinus Storer, Proc. Bost. Soc. Nat. Hist., III, 1848, 30, no
locality.2722. **Leptoblennius lampetræformis** (Walbaum).

Greenland to Norway and Spitzbergen.

Blennius lampetræformis Walbaum, Artdi Piscium, 184, 1792, no locality.Subgenus **CENTROBLENNIUS** Gill.*Centroblennius* Gill, Proc. Ac. Nat. Sci. Phila. 1860, 21 (*nubilus*).2723. **Leptoblennius nubilus** (Richardson).

Wellington Sound.

Lumpenus nubilus Richardson, Last Arctic Voyage, Fish., 13, pl. 28, 1854,
Wellington Sound.Genus 891. **PLECTOBANCHUS** Gilbert.*Plectobanchus* Gilbert, Proc. U. S. Nat. Mus. 1890, 102 (*evides*).2724. **Plectobanchus evides** Gilbert.

Coast of Oregon and Washington.

Plectobanchus evides Gilbert, Proc. U. S. Nat. Mus. 1890, 102, coast of Oregon
and Washington.

Family CC. CRYPTACANTHODIDÆ. The Wry-mouths.

Genus 892. DELOLEPIS Bean.

Delolepis Bean, Proc. U. S. Nat. Mus. 1881, 465 (*virgatus*).

2725. *Delolepis virgatus* Bean.

Coasts of British Columbia and southern Alaska, south to Puget Sound.
Delolepis virgatus Bean, Proc. U. S. Nat. Mus. 1881, 466, Kingcombe Inlet,
British Columbia, and Port Wrangel, Alaska.

Genus 893. CRYPTACANTHODES Storer.

Cryptacanthodes Storer, Rept. Fishes Massachusetts, 28, 1839 (*maculatus*).

2726. *Cryptacanthodes maculatus* Storer.

North Atlantic, south to Cape Cod.
Cryptacanthodes maculatus Storer, Rept. Fish. Mass., 28, 1839, Massachusetts.

Genus 894. LYCONECTES Gilbert.

Lyconectes Gilbert, Rept. U. S. Fish Com. 1893 (1896), 446 (*aleutensis*).

2727. *Lyconectes aleutensis* Gilbert.

Alutian Islands.
Lyconectes aleutensis Gilbert, Rept. U. S. Fish Com. 1893 (1896), 446, pl. 34,
near Unalaska.

Family CCI. ANARHICHADIDÆ. The Wolf-Fishes.

Genus 895. ANARHICHAS (Artedi) Linnæus.

Anarhichas (Artedi) Linnæus, Syst. Nat., ed. x, 247, 1758 (*lupus*).

Subgenus ANARHICHAS Linnæus.

2728. *Anarhichas lupus* Linnæus. *Wolf-fish*.

North Atlantic, south to Cape Cod and France; rather common in America
and Europe.
Anarhichas lupus Linnæus, Syst. Nat., ed. x, 247, 1758, no definite locality.

2729. *Anarhichas minor* Olafsen.

North Atlantic, on both coasts, chiefly north of the Arctic Circle.
Anarhichas minor Olafsen, Reise in Island, 592, 1772, Iceland.

2730. *Anarhichas lepturus* Bean.

Alaska.
Anarhichas lepturus Bean, Proc. U. S. Nat. Mus., 11, 1879, 212, St. Michaels,
Alaska.

2731. *Anarhichas orientalis* Pallas.

Alaska.
Anarhichas orientalis Pallas, Zoogr. Rosso-Asiat., III, 77, 1811, Alaska.

Subgenus LYCICHTHYS Gill.

Lycichthys Gill, Ann. Record Sci. Indus. 1876 (1877), p. clxvii (*latifrons*).

2732. *Anarhichas latifrons* Steenstrup & Hallgrímsson.

North Atlantic, on both coasts; chiefly north of the Arctic Circle (Europe).
Anarhichas latifrons Steenstrup & Hallgrímsson, Forh. Skand. Naturf., 3
die Mote, 1842, 647.

Genus 896. ANARRHICHTHYS Ayres.

Anarrhichthys Ayres, Proc. Cal. Ac. Sci., 1, 1855, 32 (*ocellatus*).

2733. *Anarrhichthys ocellatus* Ayres.

Pacific Coast, from Monterey north to Puget Sound.
Anarrhichthys ocellatus Ayres, Proc. Cal. Ac. Sci., 1, 1855, 31, San Francisco.

Family CCII. CERDALIDÆ.

Genus 897. CERDALE Jordan & Gilbert.

Cerdale Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 332 (*ionthas*).2734. *Cerdale ionthas* Jordan & Gilbert.

Panama.

Cerdale ionthas Jordan & Gilbert, Bull. U. S. Fish Com. 1881, 332, Panama.

Genus 898. MICRODESMUS Günther.

Microdesmus Günther, Proc. Zool. Soc. Lond. 1864, 26 (*dipus*).2735. *Microdesmus dipus* Günther.

Pacific Coast of tropical America.

Microdesmus dipus Günther, Proc. Zool. Soc. Lond., January 26, 1864, 4, pl. 3, fig. 2, Central America.2736. *Microdesmus retropinnis* Jordan & Gilbert.

Panama.

Microdesmus retropinnis Jordan & Gilbert, Bull. U. S. F. C. 1881, 331, Panama.

Family CCIII. PTILICHTHYIDÆ. The Quill-Fishes.

Genus 899. PTILICHTHYS Bean.

Ptilichthys Bean, Proc. U. S. Nat. Mus., IV, 1881, 157 (*goodei*).2737. *Ptilichthys goodei* Bean.

Aleutian Islands.

Ptilichthys goodei Bean, Proc. U. S. Nat. Mus., IV, 1881, 157, Port Levasheff, Unalaska.

Group OPHIDIOIDEI. The Eel-Pouts.

Family CCIV. ZOARCIDÆ.

Genus 900. ZOARCES Cuvier.

Zoarces Cuvier, Règne Animal, ed. 2, II, 240, 1829 (*viviparus*).

Subgenus MACROZOARCES.

Macrozoarces Gill, Proc. Ac. Nat. Sc. Phila. 1863, 258 (*anguillaris*).2738. *Zoarces anguillaris* (Peck).

Delaware to Labrador; rather common northward.

Blennius anguillaris Peck, Mem. Amer. Ac. Sci., II, 1804, 46, New Hampshire.

Genus 901. LYCODOPSIS Collett.

Lycodopsis Collett, Proc. Zool. Soc. Lond. 1879, 381 (*pacificus*).2739. *Lycodopsis pacificus* Collett.

San Francisco to Puget Sound.

Lycodes (*Lycodopsis*) *pacificus* Collett, Proc. Zool. Soc. Lond. 1879, 381, said to be from Japan; doubtless an error.2740. *Lycodopsis crotalinus* Gilbert.

Northern Pacific and off Santa Barbara Islands.

Lycodopsis crotalinus Gilbert, Proc. U. S. Nat. Mus. 1890, 105, off Santa Barbara Islands, at Albatross Station 2980, in 603 fathoms.2741. *Lycodopsis crassilabris* Gilbert.

Coast of southern California.

Lycodopsis crassilabris Gilbert, Proc. U. S. Nat. Mus. 1890, 106, off southern California, at Albatross Station 2839.

Genus 902. APRODON Gilbert.

Aprodon Gilbert, Proc. U. S. Nat. Mus. 1890, 106 (*corteziana*).2742. *Aprodon corteziana* Gilbert.

Cortez Banks, near San Diego, California.

Aprodon corteziana Gilbert, Proc. U. S. Nat. Mus. 1890, 107, Cortez Banks, off San Diego, at Albatross Stations 2925 and 2948, in 339 and 266 fathoms.

Genus 903. LYCODES Reinhardt.

Lycodes Reinhardt, Königl. Dansk. Vidensk. Selsk. Naturv., Math. Afh., VII, 1838, 153 (*vahli*).

Subgenus LYCODES Reinhardt.**2743. *Lycodes vahli* Reinhardt.**

Coast of Greenland.

Lycodes vahli Reinhardt, Kön. Dan. Vidensk. Selsk. Nat. Math. Afh., VII, 1838, 153, pl. 5, Greenland.

2744. *Lycodes esmarki* Collett.

North Atlantic; Gulf Stream, in about latitude 40°, to Finmark and Spitzbergen.

Lycodes esmarki Collett, Norges Fiske, 95, 1874, American specimens, from the Gulf Stream in about latitude 40°.

2745. *Lycodes zoarchus* Goode & Bean.

Atlantic Ocean, off Nova Scotia.

Lycopodes zoarchus Goode & Bean, Ocean. Ichth., 308, 1896, off Nova Scotia, in 130 fathoms.

2746. *Lycodes reticulatus* Reinhardt.

North Atlantic, from Greenland south to Narragansett Bay; also northern Europe.

Lycodes reticulatus Reinhardt, Kön. Dan. Vid. Selsk., 1838, 153, Greenland.

2747. *Lycodes perspicillum* Kröyer.

Off southern Newfoundland.

Lycodes perspicillum Kröyer, Dansk. Vidensk. Selsk. Afhandl., XI, 1845.

2748. *Lycodes frigidus* Collett.

Atlantic, off New England Coast.

Lycodes frigidus Collett, Forh. Vid. Selsk. Christ. 1878, Nos. 14, 45, near Spitzbergen.

2749. *Lycodes palearis* Gilbert.

Bristol Bay, Alaska.

Lycodes palearis Gilbert, Rept. U. S. Fish Com. 1893 (1896), 454, Bristol Bay, Alaska, at Albatross Stations 3253 and 3254, in 36 and 46 fathoms.

2750. *Lycodes brevipes* Bean.

Aleutian Islands.

Lycodes brevipes Bean, Proc. U. S. Nat. Mus. 1890, 38, between Unga and Nagai islands, in 110 fathoms.

2751. *Lycodes coccineus* Bean.

Big Diomed Island, Bering Strait.

Lycodes coccineus Bean, Proc. U. S. Nat. Mus., IV, 1881, 144, Big Diomed Island, Bering Strait.

2752. *Lycodes nebulosus* Kröyer.

Greenland.

Lycodes nebulosus Kröyer, Kön. Dan. Vidensk. Sel. 1814, 140, Greenland.

2753. *Lycodes seminudus* Reinhardt.

North Atlantic, from Greenland to Spitzbergen.

Lycodes seminudus Reinhardt, König. Dansk. Selsk. etc., 1838, 233, Owenah, Greenland.

Genus 904. LYCENCHELYS Gill.

Lycenchelys Gill, Proc. Ac. Nat. Sci. Phila. 1884, 180 (*muræna*).

Subgenus LYCENCHELYS GILL.**2754. *Lycenchelys verrillii* (Goode & Bean).**

Coast of Massachusetts and northward.

Lycodes verrillii Goode & Bean, Am. Jour. Sci. Arts, XIV, 1878, 474, 27 miles south and west of Chebucto Head, near Halifax.

2755. *Lycenchelys paxillus* (Goode & Bean).

Gulf Stream.

Lycodes paxillus Goode & Bean, Proc. U. S. Nat. Mus. 1879, 44, between Lo Have and Sable Island Banks.**2756. *Lycenchelys porifer* (Gilbert).**

Off Lower California.

Lycodes porifer Gilbert, Proc. U. S. Nat. Mus. 1890, 104, off Lower California, at Albatross Station 3009, in 857 fathoms.Subgenus **FURCELLA** Jordan & Evermann.*Furcella* Jordan & Evermann, Fishes N. and M. Amer., 1896 (*diapterus*).**2757. *Lycenchelys diapterus* (Gilbert).**

Coasts of California and Oregon.

Lycodes diapterus Gilbert, Proc. U. S. N. M. 1891, 564, off coast of Oregon, at Albatross Stations 2892, 2896, and others, in 82 to 376 fathoms.Genus 905. **LYCODONUS** Goode & Bean.*Lycodonus* Goode & Bean, Bull. M. C. Z., x, No. 5, 208, 1883 (*mirabilis*).**2758. *Lycodonus mirabilis* Goode & Bean.**

Off the New England Coast.

Lycodonus mirabilis Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 208, 1883, latitude 38° 20' 8" N., longitude 73° 23' 20" W., in 740 fathoms.Genus 906. **LYCODALEPIS** Bleeker.*Lycodalepis* Bleeker, Verh. Akad. Amst., ed. II, VIII, 369 (*mucosus*).**2759. *Lycodalepis mucosus* (Richardson).**

Arctic seas.

Lycodes mucosus Richardson, Last Arctic Voyage, 362, pl. 26, 1855, Northumberland Sound.**2760. *Lycodalepis turneri* (Bean).**

Northern Alaska.

Lycodes turneri Bean, Proc. U. S. Nat. Mus. 1878, 464, St. Michaels, Alaska.**2761. *Lycodalepis polaris* (Sabine).**

Coast of north Georgia.

Blennius polaris Sabine, Parry's Jour., Voyage 1819-20, Supp., 212, North Georgia.Genus 907. **LYCONEMA** Gilbert.*Lyconema* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 471 (*barbatum*).**2762. *Lyconema barbatum* Gilbert.**

Coast of Alaska.

Lyconema barbatum Gilbert, Rept. U. S. Fish. Com. 1893 (1896), 471, pl. 35, coast of Alaska, at Albatross Station 3129, in 204 fathoms.Genus 908. **MAYNEA** Cunningham.*Maynea* Cunningham, Trans. Linn. Soc., XXVII, 471, 1871 (*patagonica*).**2763. *Maynea pusilla* Bean.**

Coast of Alaska, north of Unalaska.

Maynea pusilla Bean, Proc. U. S. Nat. Mus. 1890, 39, Aleutian Islands, latitude 55° 10' N., longitude 160° 18' W., in 110 fathoms.**2764. *Maynea brunnea* Bean.**

North Pacific, Unalaska; southern California.

Maynea brunnea Bean, Proc. U. S. Nat. Mus. 1890, 39, latitude 33° 08' N., longitude 118° 40' W., off San Clemente Island, southern California, in 414 fathoms.**2765. *Maynea stigma* (Lay & Bennett).**

Kotzebue Sound.

Ophidium stigma Lay & Bennett, Zool. Beechey's Voy., 67, 1839, Kotzebue Sound.

Genus 909. BOTHROCARA Bean.*Bothrocara* Bean, Proc. U. S. Nat. Mus. 1890, 38 (*mollis*).**2766. Bothrocara mollis Bean.**

Coast of British Columbia.

Bothrocara mollis Bean, Proc. U. S. Nat. Mus. 1890, 39, off Queen Charlotte Islands, in 876 fathoms.**Genus 910. GYMNELIS Reinhardt.***Gymnelis* Reinhardt, Dansk. Vidensk. Selsk. Afhandl., VII, 1838, 131 (*viride*).**2767. Gymnelis viridis Reinhardt.**

Arctic seas, south to Alaska and Nova Scotia.

Gymnelis viridis Reinhardt, Dansk. Vidensk. Selsk. Afh., VII, 1838, 131, Greenland.**Genus 911. LYCOCARA Gill.***Lycocara* Gill, Proc. Ac. Nat. Sci. Phila. 1884, 180 (*parrii*).**2768. Lycocara parrii (Ross).**

Baffins Bay.

Ophidium parrii Ross, Parry's Third Voyage, App. 109, 1826, Baffins Bay.**Genus 912. MELANOSTIGMA Günther.***Melanostigma* Günther, Proc. Zool. Soc. Lond. 1881, 21 (*gelatinosum*).**2769. Melanostigma gelatinosum Günther.**

Deep waters of the western Atlantic; originally known from the Straits of Magellan, but since obtained in various localities from Cape Cod to the West Indies.

Melanostigma gelatinosum Günther, Proc. Zool. Soc. Lond. 1881, 21, pl. 2, fig. A, Straits of Magellan.**2770. Melanostigma pammelas Gilbert.**

Coast of Alaska.

Melanostigma pammelas Gilbert, Rept. U. S. Fish Com. 1893 (1896), 472, pl. 35, coast of Alaska, at Albatross Station 3202, latitude 36° 46' 10" N., longitude 121° 58' 45" W., in 382 fathoms.**Family CCV. SCYTALINIDÆ.****Genus 913. SCYTALINA Jordan & Gilbert.***Scytalina* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 266 (*cerdale*).**2771. Scytalina cerdale Jordan & Gilbert.**

Straits of Juan de Fuca, Waadda Island, near Cape Flattery.

Scytalina cerdale Jordan & Gilbert, Proc. U. S. Nat. Mus., III, 1880, 266, Waadda Island, Neah Bay.**Family CCVI. DEREPODICHTHYIDÆ.****Genus 914. DEREPODICHTHYS Gilbert.***Derepodichthys* Gilbert, Rept. U. S. Fish Com. 1893 (1896), 456 (*alepidotus*).**2772. Derepodichthys alepidotus Gilbert.**

Coast of British Columbia, off Queen Charlotte Island.

Derepodichthys alepidotus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 456, Queen Charlotte Island, at Albatross Station 3342, in 1,588 fathoms.**Family CCVII. OPHIDIIDÆ.****Genus 915. LEPOPHIDIUM Gill.***Lepophidium* Gill, An. Nat., XXIX, 1895, 167, substitute for *Leptophidium* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 210 (*profundorum*); preoccupied in Serpents by *Leptophidium* Hallowell, 1860.**2773. Lepophidium marmoratum (Goode & Bean).**

Gulf Stream.

Leptophidium marmoratum Goode & Bean, Proc. U. S. Nat. Mus. 1885, 423, latitude 23° 10' 39" N., longitude 82° 20' 21" W., in 213 fathoms.

2774. *Lepophidium emmelas* (Gilbert).
Coast of Lower California.
Leptophidium emmelas Gilbert, Proc. U. S. Nat. Mus. 1890, 110, coast of Lower California, at Albatross Stations 3007 and 3008, in 362 and 306 fathoms.
2775. *Lepophidium stigmatistium* (Gilbert).
Coast of Lower California.
Leptophidium stigmatistium Gilbert, Proc. U. S. Nat. Mus. 1890, 109, off Lower California, at Albatross Station 2996, in 112 fathoms.
2776. *Lepophidium profundorum* (Gill).
Gulf Stream, off the coast of Florida.
Leptophidium profundorum Gill, Proc. Ac. Nat. Sci. Phila. 1863, 211, Gulf Stream, off the coast of Florida.
2777. *Lepophidium cervinum* (Goode & Bean).
Gulf Stream.
Leptophidium cervinum Goode & Bean, Proc. U. S. Nat. Mus. 1885, 422, 40° 01' N., 69° 56' W., depth 76 fathoms.
2778. *Lepophidium prorates* (Jordan & Bollman).
Panama, and south of Panama.
Leptophidium prorates Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 172, Panama, and south of Panama.
2779. *Lepophidium brevibarbe* (Cuvier).
West Indies and Brazil.
Ophidium brevibarbe Cuvier, Règne Animal, ed. 2, II, 358, 1828 (Brazil).
2780. *Lepophidium pardale* (Gilbert).
Lower California.
Leptophidium pardale Gilbert, Proc. U. S. N. M. 1890, 108, off Lower California.
2781. *Lepophidium microlepis* (Gilbert).
Lower California.
Leptophidium microlepis Gilbert, Proc. U. S. Nat. Mus. 1890, 109, off Lower California.
- Genus 916. *OPHIDIION* (Artedi) Linnæus. *Cusk-eels*.
Ophidion (Artedi) Linnæus, Syst. Nat., ed. x, 259, 1758 (*barbatum*).
2782. *Ophidion beani* Jordan & Gilbert.
Gulf of Mexico; Snapper Banks off Pensacola, Florida.
Ophidion beani Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 43, Snapper Banks off Pensacola.
2783. *Ophidion holbrookii* (Putnam).
Key West, Florida; Gulf of Mexico.
Ophidion holbrookii Putnam, Proc. Bost. Soc. Nat. Hist. 1874, 342, Key West, Florida.
2784. *Ophidion grællsi* Poey.
Cuba.
Ophidion grællsi Poey, Memorias, II, 425, 1861, Havana.
- Genus 917. *CHILARA* * Jordan & Evermann.
Chilara Jordan & Evermann, new genus (*taylori*).
2785. *Chilara taylori* (Girard).
Coast of California, from Monterey to San Diego.
Ophidion taylori Girard, Pac. R. R. Surv., x, 138, 1858, Monterey, California.

* Distinguished from *Ophidion* by the spine on the opercle. The air bladder is ovate, not contracted, and without foramen, as in *Ophidion*.

Genus 918. *RISSOLA** Jordan & Evermann.*Rissola* Jordan & Evermann, new genus (*marginatum*).2786. *Rissola marginata* (DeKay).South Atlantic Coast of United States, from New York south to Pensacola.
Ophidium marginatum DeKay, New York Fauna: Fishes, 315, 1842, New York Harbor.Genus 919 *OTOPHIDIUM* Gill.*Otophidium* Gill, in Jordan, Cat. Fish. N. A., 126, 1885 (*omostigma*).2787. *Otophidium omostigma* (Jordan & Gilbert).Gulf of Mexico, Pensacola Snapper Banks.
Geuypertus omostigma Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 301, Pensacola Snapper Banks.2788. *Otophidium indefatigabile* Jordan & Bollman.Indefatigable Island, Galapagos Archipelago.
Otophidium indefatigabile Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 172, Indefatigable Island in the Galapagos Archipelago.2789. *Otophidium galeoides* Gilbert.Coast of Lower California.
Ophidion galeoides Gilbert, Proc. U.S.N.M. 1890, 110, off Lower California.Family CCVIII. *LYCODAPODIDÆ*.Genus 920. *LYCODAPUS* Gilbert.*Lycodapus* Gilbert, Proc. U. S. Nat. Mus. 1890, 107 (*fierasfer*).2790. *Lycodapus dermatinus* Gilbert.Coast of California, in deep water.
Lycodapus dermatinus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 471, pl. 35, coast of California, at Albatross Station 3162, 37° 54' 10" N., 123° 30' W., in 552 fathoms.2791. *Lycodapus fierasfer* Gilbert.Pacific Coast of America, Lower California to Washington, in deep water.
Lycodapus fierasfer Gilbert, Proc. U. S. Nat. Mus. 1890, 108, off Lower California and Washington, at Albatross Stations 2980, 3010, and 3072, in 610 to 1,005 fathoms.2792. *Lycodapus parviceps* Gilbert.Bering Sea, north of Unalaska Island.
Lycodapus parviceps Gilbert, Rept. U. S. Fish Com. 1893 (1896), 455, Bering Sea, north of Unalaska Island, at Albatross Station 3324 in 109 fathoms.2793. *Lycodapus extensus* Gilbert.Bering Sea, north of Unalaska Island.
Lycodapus extensus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 455, Bering Sea, north of Unalaska Island, at Albatross Station 3324, in 109 fathoms.Family CCIX. *FIERASFERIDÆ*.Genus 921. *FIERASFER* Cuvier.*Fierasfer* Cuvier, Règne Animal, ed. 1, II, 239, 1817 (*imberbis*).2794. *Fierasfer dubius* Putnam. *Pearl-fish*.Lower California to Panama; especially common about the Pearl Islands, off Panama.
Fierasfer dubius Putnam, Proc. Bost. Soc. Nat. Hist. 1874, 344, Pearl Islands.2795. *Fierasfer arenicola* Jordan & Gilbert.Pacific Coast of Mexico.
Fierasfer arenicola Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 363, Mazatlan, Mexico.* Distinguished from *Otophidium* by the absence of the opercular spine, and from *Ophidion* by the broad air bladder with a foramen behind.

2796. *Fierasfer bermudensis* (Jones).

West Indies, recorded from Bermuda, Havana, Key West, and St. Thomas.
Lefroyia bermudensis Jones, Zoologist, January, 1874, 3838, Bermuda.

Family CCX. BROTULIDÆ.

Genus 922. BROTULA Cuvier.

Brotula Cuvier, Règne Animal, ed. 2, II, 335, 1829 (*barbatus*).

2797. *Brotula barbata* (Bloch & Schneider).

West Indies.

Enchelyopus barbatus Bloch & Schneider, Syst. Ichth., 52, 1801, Havana; after Parra.

Genus 923. DINEMATICHTHYS Bleeker.

Dinematichthys Bleeker, Bataaf, 318, 1855 (*iluocatoides*).

2798. *Dinematichthys ventralis* (Gill).

Lower California, about Cape San Lucas.

Brosomphycis ventralis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 253, Cape San Lucas.

Genus 924. BROSMOPHYCIS Gill.

Brosomphycis Gill, Proc. Ac. Nat. Sci. Phila. 1863, 253 (*marginatus*).

2799. *Brosomphycis marginatus* (Ayres).

San Francisco, California.

Brosomphycis marginatus Ayres, Proc. Cal. Ac. Sci., I, 1854, 13, Bay of San Francisco.

Genus 925. BYTHITES Reinhardt.

Bythites Reinhardt, Dansk. Vidensk. Selsk. Afhandl., VII, 1838, 178 (*fuscus*).

2800. *Bythites fuscus* Reinhardt.

The only specimen known, now in the museum at Copenhagen, was obtained in Greenland half a century ago.

Bythites fuscus Reinhardt, Dansk. Vidensk. Selsk. Afh. 1838, 178, Greenland

Genus 926. CATÆTYX Günther.

Catætyx Günther, Challenger Report, XXII, 104, 1887 (*messieri*).

2801. *Catætyx rubrirostris* Gilbert.

Coast of California south of Point Conception, in deep water.

Catætyx rubrirostris Gilbert, Proc. U. S. Nat. Mus. 1890, 111, coast of California, at Albatross Stations 2909, 2925, and 2936, in 205 to 356 fathoms.

Genus 927. BARATHRODEMUS Goode & Bean.

Barathrodemus Goode & Bean, Bull. M. C. Z., x, No. 5, 200, 1883 (*manatinus*).

2802. *Barathrodemus manatinus* Goode & Bean.

Gulf Stream, north of Bermudas.

Barathrodemus manatinus Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 200, 1883, 33° 51' 20" N., 76° W., in 647 fathoms.

Genus 928. DICROLENE Goode & Bean.

Dicrolene Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 202, 1883 (*intronigra*).

2803. *Dicrolene intronigra* Goode & Bean.

Gulf Stream, from latitude 15° to 40° north.

Dicrolene intronigra Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 202, 1883, Gulf Stream, latitude 34°.

Genus 929. DICROMITA Goode & Bean.

Dicromita Goode & Bean, Ocean. Ichth., 319, 1896 (*agassizii*).

2804. *Dicromita agassizii* Goode & Bean.

Off Granada.

Dicromita agassizii Goode & Bean, Ocean. Ichth., 319, 1896, off Granada, in 291 fathoms.

Genus 930. BARATHRONUS Goode & Bean.*Barathronus* Goode & Bean, Bull. Mus. Comp. Zool., XII, 164, 1883 (*bicolor*).**2805. Barathronus bicolor** Goode & Bean.

Off Guadaloupe Island, in deep water.

Barathronus bicolor Goode & Bean, Bull. Mus. Comp. Zool., XII, 164, 1883, off Guadaloupe, at Blake Station 71, in 769 fathoms.**Genus 931. MIXONUS** Günther.*Mixonus* Günther, Challenger Report, XXII, 108, 1887 (*laticeps*).**2806. Mixonus laticeps** (Günther).

Mid-Atlantic, in deep water.

Bathynectes laticeps Günther, Ann. Mag. Nat. Hist., II, 1878, 20, mid-Atlantic, at Challenger Station 104; in 2,500 fathoms.**Genus 932. BATHYONUS** Goode & Bean.*Bathyonus* Goode & Bean, Proc. U. S. Nat. Mus., VIII, 1885, 603 (*catena*).**2807. Bathyonus compressus** (Günther).

Challenger Stations 184, off Raine Island; 205 off Philippino Islands, and 107 in mid-Atlantic.

Bathyneclus compressus Günther, Ann. Mag. Nat. Hist., II, 1878, 20, mid-Atlantic, at Challenger Station 107, in 1,500 fathoms.**2808. Bathyonus catena** Goode & Bean.

Gulf Stream, at Albatross Station 2379, latitude 28° 00' 15" N., longitude, 87° 42' W., in 1,467 fathoms.

Bathyonus catena Proc. U. S. Nat. Mus., VIII, 1885, 603, Gulf Stream.**Genus 933. PENOPUS** Goode & Bean.*Penopus* Goode & Bean, Ocean. Ichth., 335, 1896 (*macdonaldi*).**2809. Penopus macdonaldi** Goode & Bean.

Gulf Stream.

Penopus macdonaldi Goode & Bean, Oceanic Ichth., 336, fig. 293, 1896, Gulf Stream, at Albatross Station 2716, 38° 29' 30" N., 70° 57' W., in 1,631 fathoms.**Genus 934. BASSOGIGAS** Gill.*Bassogigas* Gill, in Goode & Bean, Ocean. Ichth., 328, 1896 (*gillii*).**2810. Bassogigas gillii** Goode & Bean.

Off Cape Henlopen, Delaware.

Bassogigas gillii Goode & Bean, Ocean. Ichth., 328, fig. 291, 1896, off Cape Henlopen, Delaware, at Albatross Station 2684, in 1,106 fathoms.**Genus 935. NEOBYTHITES** Goode & Bean.*Neobythites* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 600 (*gillii*).**2811. Neobythites stelliferoides** Gilbert.

Gulf of California.

Neobythites stelliferoides Gilbert, Proc. U. S. Nat. Mus. 1890, 112, Gulf of California, at Albatross Station 2996, 24° 30' 15" N., 110° 29' W., in 112 fathoms.**2812. Neobythites gillii** Goode & Bean.

Gulf of Mexico.

Neobythites gillii Goode & Bean, Proc. U. S. Nat. Mus. 1885, 601, Gulf of Mexico, at Albatross Station 2402, 28° 36' N., 85° 33' W., in 111 fathoms.**2813. Neobythites marginatus** Goode & Bean.

Off Barbados.

Neobythites marginatus Goode & Bean, Bull. Mus. Comp. Zool., XII, 162, 1883, off Barbados, in 209 fathoms.

Genus 936. **BENTHOCOMETES** Goode & Bean.*Benthocometes* Goode & Bean, Ocean. Ichth., 327, 1896 (*robustus*).**2814. Benthocometes robustus** (Goode & Bean).

West Indies, to latitude 39° N., in Gulf Stream.

Neobythites robustus Goode & Bean, Bull. Mus. Comp. Zool., XII, 161, 1883, off Moro Castle, Cuba.Genus 937. **POROGADUS** Goode & Bean.*Porogadus* Goode & Bean, Proc. U. S. Nat. Mus. 1885, 602 (*miles*).**2815. Porogadus miles** Goode & Bean.

Atlantic Coast off Delaware Bay, in deep water.

Porogadus miles Goode & Bean, Proc. U. S. Nat. Mus. 1885, 602, at Albatross Station 2230, 38° 27' N., 73° 2' W., in 1,168 fathoms.Genus 938. **BASSOZETUS** Gill.*Bassozetus* Gill, Proc. U. S. Nat. Mus. 1883, 259 (*normalis*).**2816. Bassozetus catena** Goode & Bean.

Gulf of Mexico, in deep water.

Bassozetus catena Goode & Bean, Proc. U. S. Nat. Mus. 1885, 603, at Albatross Station 2379, 28° 00' 15" N., 87° 42' W., in 1,467 fathoms.**2817. Bassozetus normalis** Gill.

West Indies, off Dominica to 40° north latitude, in region of Gulf Stream.

Bassozetus normalis Gill, Proc. U. S. Nat. Mus. 1883, 259, Gulf Stream, at Albatross Station 2042, 39° 33' N., 68° 26' 45" W., in 1,555 fathoms.**2818. Bassozetus compressus** Goode & Bean.

Gulf of Mexico, in deep water.

Bassozetus compressus Goode & Bean, Ocean. Ichth., 322, 1896, 28° 00' 15" N., 87° 42' W., in 1,467 fathoms. (Günther, Ann. and Mag. Nat. Hist., II, 1878, 20, seems to be the original description.)Genus 939. **NEMATONUS** Günther.*Nematonus* Günther, Challenger Report, XXII, 114, 1887 (*pectoralis*).**2819. Nematonus pectoralis** (Goode & Bean).

Gulf of Mexico, and off Dominica.

Bathyonus pectoralis Goode & Bean, Proc. U. S. Nat. Mus. 1885, 604, Albatross Station 2380, 28° 02' 30" N., 87° 43' 45" W., in 1,430 fathoms.Genus 940. **APHYONUS** Günther.*Aphyonus* Günther, Ann. Mag. Nat. Hist., II, 1878, 22 (*gelatinosus*).**2820. Aphyonus mollis** Goode & Bean.

Gulf of Mexico, in deep water.

Aphyonus mollis Goode & Bean, Bull. Mus. Comp. Zool., XII, 163, 1883, Gulf of Mexico, at Blake Station 221, 24° 36' N., 84° 5' W., in 955 fathoms.Genus 941. **LUCIFUGA** Poey.*Lucifuga* Poey, Memorias, II, 95, 1860 (*subterraneus*).**2821. Lucifuga subterranea** Poey. *Pez Ciego*.

Cuba.

Lucifuga subterraneus Poey, Memorias, II, 96, 1860, Caves of San Antonio in southern Cuba.Genus 942. **STYGICOLA** Gill.*Stygicola* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 252 (*dentata*).**2822. Stygicola dentata** Poey.

Caves in southern Cuba.

Lucifuga dentatus Poey, Memorias, II, 102, 1860, cave of Cajío, Cuba.

Suborder CRANIOMI.

Family CCXI. TRIGLIDÆ. The Gurnards.

Genus 943. PRIONOTUS Lacépède. *Gurnards*.

Prionotus Lacépède, Hist. Nat. Poiss., III, 37, 1802 (*erolans*).

2823. *Prionotus birostratus* Richardson.

Gulf of Fonseca, west coast of Central America.

Prionotus birostratus Richardson, Voy. Sulphur, Ichthyology, pt. II, 81, April, 1845, Gulf of Fonseca, west coast of Central America.

2824. *Prionotus gymnostethus* Gilbert.

Gulf of California.

Prionotus gymnostethus Gilbert, Proc. U. S. Nat. Mus. 1891, 559, Gulf of California, in shallow water.

2825. *Prionotus xenisma* Jordan & Bollman.

Pacific Ocean, off coast of Colombia.

Prionotus xenisma Jordan & Bollman, Proc. U. S. N. M. 1889, 169, Pacific Coast of Colombia.

2826. *Prionotus loxias* Jordan.

Pacific Coast of Central America.

Prionotus loxias Jordan, Proc. U. S. Nat. Mus. 1895, Pacific Ocean, south of Panama.

2827. *Prionotus egretta* Goode & Bean.

Barbados.

Prionotus egretta Goode & Bean, Oceanic Ichth., 465, 1896, off Barbados.

2828. *Prionotus carolinus* (Linnaeus). *Common Gurnard*.

Cape Ann to South Carolina, chiefly northward.

Trigla carolina Linnaeus, "Mantissa 176 ¶ 528" Carolina.

2829. *Prionotus scitulus* Jordan.

South Atlantic coast of United States, Beaufort to St. Augustine.

Prionotus scitulus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 288, Beaufort.

2830. *Prionotus roseus* Jordan & Evermann.

Gulf of Mexico; Tampa Bay; Pensacola.

Prionotus roseus Jordan & Evermann, Proc. U. S. Nat. Mus. 1886, 470, off Tampa Bay, Florida.

2831. *Prionotus alatus* Goode & Bean.

Off Charleston, South Carolina.

Prionotus alatus Goode & Bean, Bull. Mus. Comp. Zool., x, 210, 1883, deep sea off Charleston, South Carolina.

2832. *Prionotus miles* Jenyns.

Galapagos Islands.

Prionotus miles Jenyns, Zool. Beagle, Fishes, 29, pl. 6, 1842, Chatham Island, of the Galapagos Archipelago.

2833. *Prionotus stephanophrys* Lockington,

Deep water, off San Francisco, Point Reyes, and Monterey.

Prionotus stephanophrys Lockington, Proc. U. S. Nat. Mus. 1880, 529, Point Reyes, near San Francisco.

2834. *Prionotus quiescens* Jordan & Bollman.

Pacific Ocean, off the coast of Colombia; Gulf of California.

Prionotus quiescens Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 166, off Pacific Coast of Colombia.

2835. *Prionotus albirostris* Jordan & Bollman.

Pacific Ocean, off the coast of tropical America.

Prionotus albirostris Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 168, Pacific Ocean, off the coast of Colombia.

2836. *Prionotus rubio* Jordan. *Rubio Volador*.
West Indies.
Prionotus rubio Jordan, Proc. U. S. Nat. Mus. 1886, 50, Havana.
2837. *Prionotus ophryas* Jordan & Swain.
Gulf of Mexico, Snapper Banks, near Pensacola, Florida.
Prionotus ophryas Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 542, Snapper Banks, off Pensacola, Florida.
2838. *Prionotus stearnsi* Jordan & Swain.
Gulf of Mexico.
Prionotus stearnsi Jordan & Swain, Proc. U. S. Nat. Mus. 1884, 541, Pensacola
2839. *Prionotus strigatus* Cuvier & Valenciennes. *Red-winged Gurnard*.
Atlantic Coast of the Northern States, Cape Cod to Virginia.
Prionotus strigatus Cuv. & Val., Hist. Nat. Poiss., iv, 86, 1829, New York.
2840. *Prionotus evolans* Linnæus. *Striped Gurnard*.
South Atlantic Coast of United States.
Prionotus evolans Gill, Cat. Fish. East Coast N. Am., 21, 1861, name only.
2841. *Prionotus punctatus* Bloch.
West Indies and coast of South America.
Prionotus punctatus Bloch, Ichth., pl. 353, 1793, Martinique; on a drawing by Plumier.
2842. *Prionotus beanii* Goode.
Off Trinidad.
Prionotus beanii Goode, in Goode & Bean, Oceanic Ichth., 468, 1896, off Trinidad.
2843. *Prionotus tribulus* Cuvier & Valenciennes. *Big-headed Gurnard*.
South Atlantic Coast, from Long Island to Brazos.
Prionotus tribulus Cuvier & Valenciennes, Hist. Nat. Poiss., iv, 98, pl. 74, 1829, New York; Carolina.
2844. *Prionotus horrens* Richardson.
Pacific Coast of tropical America.
Prionotus horrens Richardson, Voy. Sulph., Ichth., 79, pl. 42, figs. 1-3, 1843, Gulf of Fonseca.
- Genus 944. *BELLATOR** Jordan & Evermann.
Bellator Jordan & Evermann, new genus (*militaris*).
2845. *Bellator militaris* (Goode & Bean).
Off Cape Catoche, Yucatan; Gulf of Mexico.
Prionotus militaris Goode & Bean, Ocean. Ichth., 464, figs. 380 and 384, 1896, off Cape Catoche, Yucatan.
- Genus 945. *CHELIDONICHTHYS* Kaup.
Kaup, Archiv f. Naturgeschichte 1873, 87 (*hirundo*).
2846. *Chelidonichthys pictipinnis* (Kaup).
Barbados.
Chelidonichthys pictipinnis Kaup,† Archiv f. Naturg. 1873, 87, Barbados (†).
- Genus 946. *TRIGLA* (Artedi) Linnæus. *Plated Gurnards*.
Trigla (Artedi) Linnæus, Syst. Nat., ed. x, 300, 1758 (*cuculus*).
2847. *Trigla cuculus* Linnæus. *Red Gurnard*.
Southern Europe. Said by Cuvier to have been brought once from New York by Milbert; record probably erroneous.
Trigla cuculus Linnæus, Syst. Nat., ed. x, 301, 1758, Mediterranean, in the open sea.

* Distinguished by its greatly elongate dorsal spines.

† The type of this species examined by us seems to be inseparable from *Chelidonichthys kumu* of the South Pacific. It probably is not American.

Family CXXII. PERISTEDIIDÆ. The Deep-water Gurnards.

Genus 947. PERISTEDION Lacépède.

Peristedion Lacépède, Hist. Nat. Poiss., III, 368, 1802 (*malarimat* = *cataphracta*).

2848. *Peristedion miniatum* Goode.

Gulf Stream.

Peristedion miniatum Goode, Proc. U. S. Nat. Mus. 1880, 349, Gulf Stream, off Rhode Island.

2849. *Peristedion longispatha* Goode & Bean.

West Indies, off Cuba and Barbados.

Peristedion longispatha Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 166, 1886, off Havana.

2850. *Peristedion gracile* Goode & Bean.

Gulf of Mexico.

Peristedion gracile Goode & Bean, Ocean. Ichth., 473, 1896, Gulf of Mexico.

2851. *Peristedion platycephalum* Goode & Bean.

West Indies; Barbados.

Peristedion platycephalum Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 167, 1886, off Barbados.

Genus 948. VULSICULUS* Jordan & Evermann.

Vulsiculus Jordan & Evermann, new genus (*imberbis*).

2852. *Vulsiculus imberbis* (Poey).

Gulf of Mexico.

Prionotus imberbe Poey, Memorias, II, 367, 1861, Cuba.

Family CXXIII. CEPHALACANTHIDÆ. The Flying-Fish.

Genus 949. CEPHALACANTHUS Lacépède.

Cephalacanthus Lacépède, Hist. Nat. Poiss., III, 223, 1802 (*spinarella*).

2853. *Cephalacanthus volitans* (Linnæus). *Flying-robin*; *Mucielago*; *Volador*; *Batfish*.

Atlantic Ocean, on both coasts; also Gulf coasts.

Trigla volitans Linnæus, Syst. Nat., ed. x, 1, 302, 1758; after Artedi.

Suborder DISCOCEPHALI.

Family CXXIV. ECHENEIDIDÆ. The Remoras.

Genus 950. PHTHEIRICHTHYS Gill.

Phtheirichthys Gill, Proc. Ac. Nat. Sci. Phila. 1862, 239 (*lineata*).

2854. *Phtheirichthys lineatus* (Menzies).

Tropical seas, ranging north to South Carolina and Pensacola.

Echeneis lineata Menzies, Trans. Linn. Soc. Lond. 1791, 1, 187, pl. 17, fig. 1, Pacific Ocean, between the Tropics.

Genus 951. ECHENEIS (Artedi) Linnæus.

Echeneis (Artedi) Linnæus, Syst. Nat., ed. x, 260, 1758 (*naucrates*).

2855. *Echeneis naucrates* Linnæus. *Shark-sucker*; *Pega*; *Pegador*; *Sucking-fish*.

Warm seas, universally distributed; common north to Cape Cod and San Francisco.

Echeneis naucrates (misprint for *naucrates*) Linnæus, Syst. Nat., ed. x, 261, 1758, Pelago Indico.

2856. *Echeneis naucrateoides* Zuieww.

Cape Cod to West Indies; common on our South Atlantic Coast.

Echeneis naucrateoides Zuieww, Nova Acta Ac. Sci. Imp. Petropol., IV, 279.

* Distinguished by its very minute barbel, easily overlooked.

Genus 952. REMILEGIA Gill.*Remilegia* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 61 (*australis*).**2857. Remilegia australis (Bennett).**

Tropical seas; recorded by Dr. Lütken, from 10° N., 39° W.

Echeneis australis Bennett, Nar. Whaling Voyage, II, 273, pls. 24-26, 1840.**Genus 953. REMORA Gill.***Remora* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 239 (*remora*).

Subgenus REMORA Gill.

2858. Remora remora (Linnæus). Remora.

Warm seas, north to New York and San Francisco.

Echeneis remora Linnæus, Syst. Nat., ed. x, 260, 1758, Pelago Indico.

Subgenus REMORINA* Jordan & Evermann.

Remorina, Jordan & Evermann, new subgenus (*albescens*).**2859. Remora albescens (Temminck & Schlegel).**

Tropical Pacific, straying to America; a specimen taken at La Paz, Gulf of California.

Echeneis albescens Temminck & Schlegel, Fauna Japonica, Poiss., 272, pl. 120, fig. 3, 1842, Japan, no definite locality.

Subgenus REMOROPSIS GILL.

Remoropsis Gill, Proc. Ac. Nat. Sci. Phila. 1864, 60 (*brachyptera*).**2860. Remora brachyptera (Lowe).**

Warm seas, occasionally north to Cape Cod.

Echeneis brachyptera Lowe, Proc. Zool. Soc. Lond. 1839, 89, Madeira.**Genus 954. RHOMBOCHIR'S GILL.***Rhombochirus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 88 (*osteoichir*).**2861. Rhombochirus osteoichir (Cuvier).**

West Indies, north to Cape Cod.

Echeneis osteoichir Cuvier, Règne Animal, ed. 2, II, 348, 1829, no locality given.**Suborder TÆNIOSOMI. The Ribbon-Fishes.****Family CCKV. TRACHYPTERIDÆ. The King of the Herrings.****Genus 955. TRACHYPTERUS Gouan.***Trachypterus* Gouan, Hist. Nat. Poiss., 104, 1770 (*trachyrhynchus*).**2862. Trachypterus rex-salmonorum Jordan & Gilbert.**

Off coast of California.

Trachypterus rex-salmonorum Jordan & Gilbert, Proc. Cal. Ac. Sci. 1894, 145, pl. 9, open sea, outside Bay of San Francisco.**Family CCKVI. REGALECIDÆ.****Genus 956. REGALECUS Ascanius.***Regalecus* Ascanius, Icones Rerum Naturalium, pl. 11, 1772 (*glesne*).**2863. Regalecus glesne Ascanius.**

Sea off Bergen, Norway.

Regalecus glesne Ascanius, Icones Rerum Nat., 2d Cayer, pl. 11, 1772, sea off Bergen, Norway.**Family CCKVII. STYLEPHORIDÆ.****Genus 957. STYLEPHORUS Shaw.***Stylephorus* Shaw, Trans. Linn. Soc. Lond., I, 1791, 90 (*chordatus*).**2864. Stylephorus chordatus Shaw.**

Atlantic, between Cuba and Martinique.

Stylephorus chordatus Shaw, Trans. Linnean Soc., I, 1791, 92, pl. 6, Atlantic, between Cuba and Martinique.

* Distinguished by the fin rays.

Suborder XENOPTERYGII. The Cling-Fishes.

Family CCKVIII. GOBIESOCIDÆ. Cling-Fishes.

Genus 958. CAULARCHUS Gill.

Caularchus Gill, Proc. Ac. Nat. Sci. Phila. 1862, 330 (*mæandricus*).

2865. *Caularchus mæandricus* (Girard). *Suckfish*.

Pacific Coast of United States, from Vancouver Island to Monterey.

Lepidogaster mæandricus Girard, Pac. R. R. Surv., x, 130, 1858, San Luis Obispo, California, and the Farallones.

Genus 959. BRYSSETÆRES Jordan & Evermann.

Bryssetæres Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 230 (*pinniger*).

2866. *Bryssetæres pinniger* (Gilbert).

Gulf of California; known from Puerto Refugio (Angel Island), San Luis Gonzales Bay, and La Paz.

Gobiesox pinniger Gilbert, Proc. U. S. Nat. Mus. 1890, 94, Puerto Refugio, Gulf of California.

Genus 960. GOBIESOX Lacépède. *Clingfishes*.

Gobiesox Lacépède, Hist. Nat. Poiss., II, 595, 1799 (*cephalus*).

Subgenus CAULISTIUS Jordan & Evermann.

Caulistius Jordan & Evermann, new subgenus (*papillifer*).

2867. *Gobiesox papillifer* Gilbert.

Magdalena Bay, Lower California.

Gobiesox papillifer Gilbert, Proc. U. S. Nat. Mus. 1890, 96, Magdalena Bay, Lower California.

Subgenus GOBIESOX Lacépède.

2868. *Gobiesox gyrinus* Jordan & Evermann.

West Indies.

Gobiesox gyrinus Jordan & Evermann, Fishes North and Middle America, 1896, Cordova.

2869. *Gobiesox nigripinnis* Peters.

Puerto Cabello, near Aspinwall.

Gobiesox nigripinnis Peters, Berliner Monatsber. 1859, 412, Puerto Cabello, near Aspinwall.

2870. *Gobiesox cephalus* Lacépède. *Tétard; Testar*.

West Indies.

Gobiesox cephalus Lacépède, Hist. Nat. Poiss., II, 595, 1798, Martinique.

2871. *Gobiesox strumosus* Cope.

South Atlantic Coast, South Carolina to Florida.

Gobiesox strumosus Cope, Proc. Ac. Nat. Sci. Phila. 1870, 121, Hilton Head, South Carolina.

2872. *Gobiesox virgatulus* Jordan & Gilbert.

From Pensacola Bay north to Charleston, South Carolina.

Gobiesox virgatulus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 293, Pensacola, Florida.

2873. *Gobiesox adustus* Jordan & Gilbert.

Pacific coast of Mexico at Mazatlan.

Gobiesox adustus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 360, Mazatlan, Mexico.

2874. *Gobiesox funebris* Gilbert.

Gulf of California; Puerto Refugio (Angel Island) and La Paz.

Gobiesox funebris Gilbert, Proc. U. S. Nat. Mus. 1890, 95, Puerto Refugio, Gulf of California.

2875. *Gobiesox pœcilophthalmus* Jenyns.

Chatham Island, Galapagos Archipelago.

Gobiesox pœcilophthalmus Jenyns, Voy. Beagle, Fishes, 141, 1842, Chatham Island.

2876. *Gobiesox rhodospilus* Günther.

Panama.

Gobiesox rhodospilus Günther, Proc. Zool. Soc. Lond. 1864, 25, Panama.**2877. *Gobiesox macrophthalmus* Günther.**

Probably West Indies.

Gobiesox macrophthalmus Günther, Cat., III, 502, 1861, locality unknown.**2878. *Gobiesox cerasinus* Cope.**

St. Martins, West Indies.

Gobiesox cerasinus Cope, Trans. Amer. Philos. Soc., XIV, 1871, 473, St. Martins, West Indies.Subgenus *SICYASES* Müller & Troschel.*Sicyases* Müller & Troschel.**2879. *Gobiesox erythrops* Jordan & Gilbert.**

Mazatlan; also Tres Marias Islands.

Gobiesox erythrops Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 360, Mazatlan, Mexico.**2880. *Gobiesox rubiginosus* (Poey).**

Matanzas, Cuba.

Licejosus rubiginosus Poey, Synopsis, 391, 1868, wharves of Palmasola, Matanzas, Cuba.**2881. *Gobiesox carneus* (Poey).**

Matanzas, Cuba.

Sicyases carneus Poey, Syn., 392, 1868, wharf of Palmasola, Matanzas, Cuba.**2882. *Gobiesox hæres* Jordan & Bollman.**

Green Turtle Cay, Bahamas.

Gobiesox hæres Jordan & Bollman, Proc. U. S. Nat. Mus. 1888, 552, Green Turtle Cay, Bahamas.**2883. *Gobiesox punctulatus* (Poey).**

Cuba.

Sicyases punctulatus Poey, Enumeratio, 124, 1875, Havana.**2884. *Gobiesox fasciatus* (Peters).**

Puerto Cabello, near Aspinwall.

Sicyases fasciatus Peters, Monatsber. Berl. Ac. 1859, 412, Puerto Cabello.Genus 961. *RIMICOLA* Jordan & Evermann.*Rimicola* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 231 (*muscarum*).**2885. *Rimicola muscarum* (Meek & Pierson).**

Monterey Bay, California.

Gobiesox muscarum Meek & Pierson, Proc. Cal. Ac. Sci. 1895, 571, pl. 71, Monterey Bay, California.**2886. *Rimicola eigenmanni* (Gilbert).**

Point Loma, near San Diego, California.

Gobiesox eigenmanni Gilbert, Proc. U. S. Nat. Mus. 1890, 96, Point Loma, near San Diego, California.Genus 962. *ARBACIOSA* Jordan & Evermann.*Arbaciosa* Jordan & Evermann, Proc. Cal. Ac. Sci. 1896, 290 (*zebra*).**2887. *Arbaciosa rhesodon* (Rosa Smith).**

San Diego to the northern part of the Gulf of California.

Gobiesox rhesodon Rosa Smith, Proc. U. S. Nat. Mus. 1881, 140, San Diego, California.**2888. *Arbaciosa humeralis* (Gilbert).**

Gulf of California; Puerto Refugio, Angel Island; La Paz.

Gobiesox humeralis Gilbert, Proc. U. S. Nat. Mus. 1890, 95, Puerto Refugio, Gulf of California.**2889. *Arbaciosa rupestris* (Poey).**

Coral reefs of Cuba.

Gobiesox rupestris Poey, Memorias, II, 283, 1861, Cuba.

2890. *Arbaciola zebra* (Jordan & Gilbert).
Mazatlan, Mexico.
Gobiesox zebra Jordan & Gilbert, Proc. U. S. N. M. 1881, 395, Mazatlan, Mexico.
2891. *Arbaciola eos* (Jordan & Gilbert).
Pacific Coast of Mexico.
Gobiesox eos Jordan & Gilbert, Proc. U. S. N. M. 1881, 360, Mazatlan, Mexico.

Suborder ANACANTHINI. The Jugular Fishes.

Family CCXIX. MERLUCCIIDÆ. The Hakes.

Genus 963. MERLUCCIUS Rafinesque.

Merluccius Rafinesque, Carrat. di Alc. Nuovi Gen., etc., 25, 1810 (*emiridus*).

2892. *Merluccius bilinearis* (Mitchill).
Coast of New England and northward.
Stomodon bilinearis Mitchill, Rept. Fish. N. Y., 7, 1814, New York.
2893. *Merluccius merluccius* (Linnaeus).
Coasts of Europe, straying to Greenland.
Gadus merluccius Linnaeus, Syst. Nat., ed. x, 254, 1758, no locality.
2894. *Merluccius productus* (Ayres).
Pacific Coast, from Santa Barbara northward.
Merlangus productus Ayres, Proc. Cal. Ac. Sci. 1855, 64, no locality given;
types from San Francisco market, probably from San Francisco Bay.

Family CCXX. GADIDÆ.

Genus 964. BOREOGADUS Günther.

Boreogadus Günther, Cat., iv, 336, 1862 (*fabricii*).

2895. *Boreogadus saida* (Lepechin).
Arctic seas, Greenland to Alaska and northern Russia; common in the far North.
Gadus saida Lepechin, Nov. Comm. Ac. Scient. Petrop. 1774, 512.

Genus 965. POLLACHIUS Nilsson. Pollacks.

Pollachius Nilsson, in Bonaparte, Cat. Met. Pesci Europ., 45, 1846 (*pollachius*).

2896. *Pollachius chalcogrammus* (Pallas).
North Pacific, south to Sitka.
Gadus chalcogrammus Pallas, Zoogr. Rosso-Asiat., III, 198, 1811, Kamchatka.
2897. *Pollachius fucensis* Jordan & Gilbert.
Puget Sound.
Pollachius fucensis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1883, 315, Puget Sound at Tacoma, Washington.
2898. *Pollachius virens* (Linnaeus). *Pollack*; *Coalfish*; *Green-cod*.
North Atlantic; common northward on both coasts, south to Cape Cod.
Gadus virens Linnaeus, Syst. Nat., ed. x, 253, 1758, ocean, off Europe.

Genus 966. ELEGINUS Fischer.

Eleginus Fischer, Mém. Soc. Nat. Moscow, v, 4, 2d ed., 252-257, 1813 (*navaga*).

2899. *Eleginus navaga* Kölreuter.
Gadus navaga Kölreuter, Nov. Comm. Acad. Petrop., xiv, 1770, 484, pl. 12,
coast of northern Russia.

Genus 967. MICROGADUS Gill. Tomcods.

Microgadus Gill, Proc. Ac. Nat. Sci. Phila. 1865, 69 (*proximus*).

2900. *Microgadus proximus* (Girard). *California Tomcod*.
West coast of North America, from Monterey to Alaska.
Gadus proximus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 141, San Francisco.
2901. *Microgadus tomcod* (Walbaum). *Tomcod*; *Frostfish*.
East coast of North America, from Virginia to Labrador.
Gadus tomcod Walbaum, Artdi Pisc., 133, 1792, Long Island; after Schöpf.

Genus 968. GADUS (Artemi) Linnæus. Codfishes.*Gadus* (Artemi) Linnæus, Syst. Nat., ed. x, 251, 1758 (*callarias*).**2902. *Gadus ogac* Richardson.**

Godhavn, Greenland.

Gadus ogac Richardson, Faun. Bor.-Amer., III, 246, 1836, no locality.**2903. *Gadus callarias* Linnæus. Common Codfish.**

North Atlantic, south to Virginia.

Gadus callarias Linnæus, Syst. Nat., ed. x, 252, 1758, Baltic Sea and ocean off Europe.**2904. *Gadus macrocephalus* Tilesius. Pacific Cod.**

Bering Sea, south to coast of Oregon.

Gadus macrocephalus Tilesius, Mém. Ac. Sci. St. Petro., II, 1810, 360, Bering Sea.**Genus 969. MELANOGRAMMUS Gill. Haddock.***Melanogrammus* Gill, Proc. Ac. Nat. Sci. Phila. 1862, 280 (*æglifinus*).**2905. *Melanogrammus æglifinus* (Linnæus).**

North Atlantic, on both coasts.

Gadus æglifinus Linnæus, Syst. Nat., ed. x, 251, 1758, and ed. XII, 435, 1766, ocean off Europe.**Genus 970. LEPIDION Swainson.***Lepidion* Swainson, Nat. Hist. Class. Fishes, II, 1839.**2906. *Lepidion verecundum* Jordan & Cramer.**

Off coast of Lower California.

Lepidion verecundum Jordan & Cramer, Proc. U. S. Nat. Mus. 1896, Clarion Island, Mexico.**Genus 971. ANTIMORA Günther.***Antimora* Günther, Ann. Mag. Nat. Hist. 1876, 2 (*rostrata*).**2907. *Antimora viola* (Goode & Bean).**

Banks of Newfoundland and southward.

Haloporphyrus viola Goode & Bean, Proc. U. S. Nat. Mus. 1878, 256, Lo Have Bank, in 400 fathoms.**2908. *Antimora microlepis* Bean.**

Pacific Ocean, off Queen Charlotte Islands.

Antimora microlepis Bean, Proc. U. S. Nat. Mus. 1890, 38, latitude 51° 00' 23" N., longitude 130° 34' W., off Cape St. James, Queen Charlotte Islands, in 875 fathoms.**Genus 972. PHYSICULUS Kaup.***Physiculus* Kaup, Wiegmann's Archiv 1858, 88 (*dalwigkii*).**2909. *Physiculus fulvus* Bean.**

Caribbean Sea and north in the Gulf Stream to latitude 35°.

Physiculus fulvus Bean, Proc. U. S. Nat. Mus. 1884, 240, 40° 1' N., 69° 56' W., 79 fathoms.**Genus 973. LOTELLA Kaup.***Lotella* Kaup, Wiegmann's Archiv, I, 1858, 88 (*schlegeli*).**2910. *Lotella maxillaris* Bean.**

Gulf Stream.

Lotella maxillaris Bean, Proc. U. S. Nat. Mus. 1884, 241, latitude 39° 55' N., longitude 70° 28' W., in 396 fathoms.**2911. *Lotella nematopus* (Gilbert).**

On both coasts of Lower California, in deep water.

Physiculus nematopus Gilbert, Proc. U. S. Nat. Mus. 1890, 114, on both coasts of Lower California, at Albatross Stations 2997, 3011, 3015, and 3016, in 71 to 221 fathoms.**2912. *Lotella kaupi* (Poey.)**

Cuba.

Physicula kaupi Poey, Repertorio, I, 186, 1865, Matanzas, Cuba.

2913. *Lotella rastrelliger* (Gilbert).

On both coasts of Lower California, in deep water.

Physiculus rastrelliger Gilbert, Proc. U. S. Nat. Mus. 1890, 113, on both coasts of Lower California, at Albatross Stations 2987 and 3045, in 171 and 184 fathoms.

Genus 974. *URALEPTUS* Costa.

Uraleptus Costa, Wiegmann's Archiv 1858, 87 (*maraldi*).

2914. *Uraleptus maraldi* (Risso).

Nice; Madeira; Naples and Catania; also off island of Nevis, in the West Indies.

Gadus maraldi Risso, Ichth. Nice, 123, 1810, pl. 6, fig. 13, Nico.

Genus 975. *LOTA* Cuvier. *Burbots*.

Lota Cuvier, Règne Animal, ed. 1, II, 215, 1817 (*lota*).

2915. *Lota maculosa* (LeSueur). *Burbot*; *Lake Lawyer*; *Ling*; *Alekey Trout*.

New England and Great Lakes region, north to the Arctic seas, and west to the upper Missouri and Columbia River basins.

Gadus maculosus LeSueur, Jour. Ac. Nat. Sci. Phila., I, 83.

Genus 976. *MOLVA* Nilsson. *Lings*.

Molva Nilsson, Skandinav. Fauna, IV, 573, 1832 (*molva*).

2916. *Molva molva* (Linnaeus).

Spitzbergen to Gulf of Gascon; Arcachou; San Juan de Luz; Iceland, Greenland; Farøe Islands.

Gadus molva Linnaeus, Syst. Nat., ed. x, 254, 1758, and ed. XII, 439, 1766, no locality.

Genus 977. *PHYCIS* Bloch & Schneider. *Codlings*.

Phycis Bloch & Schneider, Syst. Ichth., 56, 1801 (*tinca*).

2917. *Phycis regius* (Walbaum).

North Atlantic, south to Cape Fear.

Blennius regius Walbaum, Artedi Pisc., 186, 1792, no locality.

2918. *Phycis cirratus* Goode & Bean.

Deep waters of the Gulf of Mexico.

Phycis cirratus Goode & Bean, Ocean. Ichth., 358, 1896, Gulf of Mexico, at 29° 03' 15" N., 88° 16' W.

2919. *Phycis floridanus* Bean & Dresel.

Pensacola, Florida.

Phycis floridanus Bean & Dresel, Proc. Biol. Soc. Wash. 1884, 100, Pensacola.

2920. *Phycis earlli* Bean.

Charleston, South Carolina.

Phycis earlli Bean, Proc. U. S. Nat. Mus., III, 1880, 69, Charleston, S. C.

2921. *Phycis tenuis* (Mitchill).

North Atlantic, south to Virginia; abundant northward.

Gadus tenuis Mitchill, Trans. Lit. and Phil. Soc. N. Y., I, 1815, 371, New York.

2922. *Phycis chuss* (Walbaum).

Atlantic Coast, chiefly northward.

Blennius chuss Walbaum, Artedi Pisc., 186, 1792, no locality.

2923. *Phycis chesteri* Goode & Bean.

Off Massachusetts, in deep water.

Phycis chesteri Goode & Bean, Proc. U. S. Nat. Mus. 1878, 256, off Cape Ann, in 140 fathoms.

Genus 978. *LÆMONEMA* Günther.

Læmonema Günther, Cat., IV, 356, 1862 (*yarrellii*).

2924. *Læmonema barbatulum* Goode & Bean.

Gulf Stream.

Læmonema barbatula Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 204, 1883, Gulf Stream, in 32° 43' 25" N., 77° 20' 30" W., in 230 fathoms, and 28° 35' N., 73° 13' W.

2925. *Læmonema melanurum* Goode & Bean.

Caribbean Sea, north to New York.

Læmonema melanurum Goode & Bean, Ocean. Ichth., 363, 1896, 30° 44' N., 79° 26' W., in 440 fathoms.Genus 979. *GAIDROPSARUS* Rafinesque. *Rocklings*.*Gaidropsarus* Rafinesque, Indice d'Itt. Sic., 11, 1810 (*mustellaris* = *mediterraneus*).2926. *Gaidropsarus reinhardti* (Krøyer).

Greenland and east coast of United States.

Motella reinhardti Krøyer (ms.), 1852, Greenland.2927. *Gaidropsarus ensis* (Reinhardt).

New York to Greenland.

Motella ensis Reinhardt, Dansk. Vidensk. Selsk. Afh., VII, 15, 1838, Greenland.2928. *Gaidropsarus septentrionalis* (Collett).

Coasts of Norway and Greenland.

Motella septentrionalis Collett, Ann. Mag. Nat. Hist., 15, 82, 1874, Florø, Bergen, coast of Norway.Genus 980. *RHINONEMUS* Gill.*Rhinonemus* Gill, Proc. Ac. Nat. Sci. Phila. 1863, 241 (*cimbrius*).2929. *Rhinonemus cimbrius* (Linnæus).*Gadus cimbrius* Linnæus, Syst. Nat., ed. XII, 440, 1766, no locality.Genus 981. *BROSMIUS* Cuvier.*Brosmius* Cuvier, Règne Animal, ed. 1, II, 222, 1817 (*brosme*).2930. *Brosmius brosmæ* (Müller).

Polar regions, south to Cape Cod.

Gadus brosmæ Müller, Prodr. Zool. Dan., 41, 1776, no locality.Family CCXXI. *MACRURIDÆ*. The Grenadiers.Genus 982. *LIONURUS* Günther.*Lionurus* Günther, Challenger Rept., XXII, 141, 1887 (*filicauda*).2931. *Lionurus filicauda* Günther.

Antarctic Ocean and deep sea, off both coasts of South America.

Coryphanoides filicauda Günther, Ann. Mag. Nat. Hist. 1878, 27, Antarctic Ocean at Challenger Stations 157, 299, and 325.2932. *Lionurus hiolepis* Gilbert.

Off coast of southern California, in deep water.

Macrurus (Lionurus) hiolepis Gilbert, Proc. U. S. Nat. Mus., XIII, 1890, 117, coast of California, at Albatross Station 2980, 33° 49' 45" N., 119° 24' 30" W., in 600 fathoms.Genus 983. *HYMENOCEPHALUS* Giglioli.*Hymenocephalus* Giglioli, Pelagos, Genoa, 228, 1884 (*italicus*).2933. *Hymenocephalus cavernosus* (Goode & Bean).

Gulf of Mexico, in deep water.

Bathygadus cavernosus Goode & Bean, Proc. U. S. N. M. 1885, 598, Albatross Station 2398, at lat. 28° 45' N., long. 86° 26' W., in 227 fathoms.2934. *Hymenocephalus goodii* (Günther).

Gulf Stream, south of New England, in deep water.

Macrurus goodii Günther, Challenger Rept., XXII, 136, 1887, between latitude 40° and 41° N. and longitude 65° and 68° W., in 304 to 1,242 fathoms.Genus 984. *BATHYGADUS* Günther.*Bathygadus* Günther, Ann. Mag. Nat. Hist. 1878, 23 (*cottoides*).2935. *Bathygadus favosus* Goode & Bean.

Off Martinique, in deep water.

Bathygadus favosus Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 160, 1886, off Martinique, at Blake Station 80, in 472 fathoms.

2936. *Bathygadus arcuatus* Goode & Bean.
Gulf of Mexico, in deep water.
Bathygadus arcuatus Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 158, 1886, off Martinique, in 334 fathoms.
2937. *Bathygadus longifilis* Goode & Bean.
Deep waters of the Gulf of Mexico.
Bathygadus longifilis Goode & Bean, Proc. U. S. Nat. Mus. 1885, 599, Gulf of Mexico, at Albatross Station 2392, latitude 28° 47' 30" N., longitude 87° 27' W., in 724 fathoms.
2938. *Bathygadus macrops* Goode & Bean.
Deep waters of the Gulf of Mexico.
Bathygadus macrops Goode & Bean, Proc. U. S. N. M. 1885, 598, at Albatross Station 2396, in latitude 28° 34' N., longitude 86° 48' W., in 335 fathoms.
- Genus 985. **MACROURUS** Bloch.
Macrourus Bloch, Ichth., v, 152, 1787 (*rupestris*).
2939. *Macrourus berglax* Lacépède.
Massachusetts to Greenland and Norway.
Macrourus berglax Lacépède, Hist. Nat. Poiss., III, 170, 1800, Greenland.
2940. *Macrourus acrolepis* Bean.
Straits of Juan de Fuca.
Macrourus acrolepis Bean, Proc. U. S. N. M. 1883, 362, Straits of Juan de Fuca.
2941. *Macrourus bairdi* Goode & Bean.
West Indies to Massachusetts Bay.
Macrourus bairdi Goode & Bean, Amer. Jour. Sci. Arts. 1877, 471, Massachusetts Bay.
2942. *Macrourus stelgidolepis* Gilbert.
Pacific Ocean, off Point Conception.
Macrurus (*Macrurus*) *stelgidolepis* Gilbert, Proc. U. S. Nat. Mus. 1890, 116, Albatross Station 2960, 34° 10' 45" N., 120° 16' 45" W., in 267 fathoms.
2943. *Macrourus cinereus* Gilbert.
North Pacific and Bering Sea
Macrourus cinereus Gilbert, Rept. U. S. Fish Com. 1893 (1896), 457, at Albatross Stations 3307, 3329, and 3340, latitude 51° to 55° N. and longitude 155° to 171° W., in 399 to 1033 fathoms.
- Genus 986. **MALACOCEPHALUS** Günther.
Malacocephalus Günther, Cat., IV, 396, 1862 (*lavis*).
2944. *Malacocephalus pectoralis* Gilbert.
Off the coast of Oregon.
Macrourus (*Malacocephalus*) *pectoralis* Gilbert, Proc. U. S. Nat. Mus. 1891, 563, off the coast of Oregon, at Albatross Stations 3071, 3074, and 3075, in 685 to 877 fathoms.
- Genus 987. **CÆLORHYNCHUS** Giorna.
Cælorhynchus Giorna, Mém. Ac. Sci. Turin, XVI, 1803, 178, pl. 1, figs. 3 and 4 (*La Ville* L., *Cælorhynchus* Risso).
2945. *Cælorhynchus carminatus* (Goode).
Caribbean Sea, north in the Gulf Stream to Long Island.
Macrourus carminatus Goode, Proc. U. S. Nat. Mus. 1880, 346, Gulf Stream, 40° 02' 54" N., 70° 23' 40" W., in 115 fathoms.
2946. *Cælorhynchus occa* (Goode & Bean).
Gulf of Mexico, in deep water.
Macrourus occa Goode & Bean, Proc. U. S. Nat. Mus. 1885, 595, Gulf of Mexico, 28° 34' N., 86° 48' W., in 335 fathoms.
2947. *Cælorhynchus caribbeus* (Goode & Bean).
West Indies, to northern part of Gulf of Mexico.
Macrourus caribbeus Goode & Bean, Proc. U. S. Nat. Mus. 1885, 594, northern part of Gulf of Mexico, in 210 fathoms.

2948. *Cælorhynchus scaphopsis* Gilbert.

Gulf of California, in deep water.

Macrurus (Cælorhynchus) scaphopsis Gilbert, Proc. U. S. Nat. Mus. 1890, 115, Gulf of California, at Albatross Station 3015, latitude 29° 19' N., longitude 112° 50' W., in 145 fathoms.**Genus 988. TRACHYRHYNCHUS Giorna.***Trachyrhynchus* Giorna, Mém. Ac. Sci. Turin, xvi, 1803, 178.**2949. *Trachyrhynchus helolepis* Gilbert.**

Off the coast of Central America.

Trachyrhynchus helolepis Gilbert, Proc. U. S. Nat. Mus. 1891, 562, west coast of Central America, at Albatross Station 2818, in deep water.**Genus 989. CORYPHÆNOIDES Gunner.***Coryphænoides* Gunner, Trondhj. Selsk. Skrift., III, 50, 1765 (*rupestris*).**2950. *Coryphænoides rupestris* Gunner.**

Banks of Newfoundland to Norway.

Coryphænoides rupestris Gunner, Trondhj. Selsk. Skrift., III, 50, 1765.**2951. *Coryphænoides carapinus* Goode & Bean.**

Gulf Stream.

Coryphænoides carapinus Goode & Bean, Bull. Mus. Comp. Zool., vol. x, No. 5, 197, 1883, Gulf Stream, latitude 40°, in deep water.**Genus 990. CHALINURA Goode & Bean.***Chalinura* Goode & Bean, Bull. Mus. Comp. Zool., vol. x, No. 5, 198, 1883 (*simula*).**2952. *Chalinura simula* Goode & Bean.**

Gulf Stream.

Chalinura simula Goode & Bean, Bull. Mus. Comp. Zool. x, No. 5, 199, 1883, Gulf Stream, about latitude 40°.**2953. *Chalinura serrula* Bean.**

East of Prince of Wales Island, in deep water.

Chalinura serrula Bean, Proc. U. S. Nat. Mus. 1890, 37, east of Prince of Wales Island, at Albatross Station 2859, in 1,569 fathoms.**2954. *Chalinura filifera* Gilbert.**

Off Queen Charlotte Island, in deep water.

Chalinura filifera Gilbert, Rept. U. S. Fish Com. 1893 (1896), 458, off Queen Charlotte Island, at Albatross Station 3342.**Genus 991. NEMATONURUS Günther.***Nematonurus* Günther, Challenger Report, xxii, 124 and 150, 1887 (*armatus*).**2955. *Nematonurus gigas* (Vaillant).**

Atlantic and Pacific oceans.

Coryphænoides gigas Vaillant, Expd. Sci. Travailleur et Talisman, 232, pl. xx, fig. 2, 1888, off the Azores in 2,000 fathoms.**Family CCXXII. BREGMACEROTIDÆ.****Genus 992. BREGMACEROS (Cantor) Thompson.***Bregmaceros* (Cantor) Thompson, in Charlesworth's Mag. Nat. Hist. 1840, 184 (*macclellandii*).**2956. *Bregmaceros macclellandii* Cantor.**

South Pacific and Indian oceans; also off coast of Panama.

Bregmaceros macclellandii Cantor MS., Thompson, in Charlesworth's Mag Nat. Hist. 1840, figure 185, India.**2957. *Bregmaceros atlanticus* Goode & Bean.**

Blake Stations 99 off Granada, and 113 off Nevis; also Station 185.

Bregmaceros atlanticus Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 165-1886, off Nevis.

Order CC. HETEROSOMATA. The Flatfishes.

Family CCXXIII. PLEURONECTIDÆ. The Flounders.

Genus 993. ATHERESTHES Jordan & Gilbert.

Atheresthes Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 51 (*stomias*).

2958. *Atheresthes stomias* (Jordan & Gilbert). *Arrow-Toothed Halibut*.

San Francisco to Alaska.

Platysomatichthys stomias Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 301, off San Francisco.

Genus 994. REINHARDTIUS Gill.

Reinhardtius Gill, Cat. E. C. Fishes, 50, 1861 (*hippoglossoides*).

2959. *Reinhardtius hippoglossoides* (Walbaum). *Greenland Halibut*.

Arctic parts of the Atlantic, south to Finland and Grand Banks.

Pleuronectes cynoglossus Fabricius, Fauna Grœnlandica, 163, 1780, Greenland; not of Linnæus.

Genus 995. HIPPOGLOSSUS Cuvier.

Hippoglossus Cuvier, Règne Animal, ed. 1, II, 221, 1817 (*hippoglossus*).

2960. *Hippoglossus hippoglossus* (Linnæus). *Halibut*.

All northern seas, southward in deep waters to France, Sandy Hook, and San Francisco.

Pleuronectes hippoglossus Linnæus, Syst. Nat., ed. x, 269, 1758, European Ocean.

Genus 996. LYOPSETTA Jordan & Goss.

Lyopsetta Jordan & Goss, in Jordan, Cat. Fish. N. A., 135, 1885 (*exilis*).

2961. *Lyopsetta exilis* (Jordan & Gilbert).

North Pacific, in rather deep water; San Francisco to Alaska.

Hippoglossoides exilis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 154, off San Francisco, between the Golden Gate and Point Reyes.

Genus 997. EOPSETTA Jordan & Goss.

Eopsetta Jordan & Goss, in Jordan, Cat., 135, 1885 (*jordani*).

2962. *Eopsetta jordani* (Lockington). *California Sole*.

West coast of United States, from Puget Sound to Monterey.

Hippoglossoides jordani Lockington, Proc. U. S. Nat. Mus. 1879, 73, San Francisco.

Genus 998. HIPPOGLOSSOIDEES Gottsche.

Hippoglossoides Gottsche, Wiegmann's Archiv 1835, 164 ("*lamanda*"=*platessoides*).

2963. *Hippoglossoides platessoides* (Fabricius).

North Atlantic, south to Cape Cod, and coasts of England and Scandinavia.

Pleuronectes platessoides Fabricius, Fauna Grœnlandica, 164, 1780, Greenland.

2964. *Hippoglossoides elassodon* Jordan & Gilbert.

Puget Sound and northward.

Hippoglossoides elassodon Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 278, Puget Sound, at Seattle and Tacoma, Washington.

Genus 999. PÆTTICHTHYS Girard.

Pættichthys Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140 (*melanostictus*).

2965. *Pættichthys melanostictus* Girard.

Pacific Coast of North America, from Alaska south to Monterey.

Pættichthys melanostictus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140, San Francisco; Astoria, Oregon.

Genus 1000. **HIPPOGLOSSINA** Steindachner.*Hippoglossina* Steindachner, Ichth. Beitr., v, 13, 1876 (*macrops*).2966. **Hippoglossina macrops** Steindachner.

Pacific Coast of Mexico, Mazatlan.

Hippoglossina macrops Steindachner, Ichth. Beitr., v, 13, pl. 3, 1876, Mazatlan.2967. **Hippoglossina stomata** Eigenmann & Eigenmann.

Off San Diego, California.

Hippoglossina stomata Eigenmann & Eigenmann, Proc. Cal. Ac. Sci. 1890, 22, San Diego.2968. **Hippoglossina bollmani** Gilbert.

Pacific Coast, off coast of Colombia.

Hippoglossina bollmani Gilbert, Proc. U. S. Nat. Mus. 1890, 122, off coast of Colombia at Albatross Station 2805, 7° 56' N., 79° 41' 30" W., in 51½ fathoms.Genus 1001. **XYSTREURYS** Jordan & Gilbert.*Xystreurus* Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 34 (*liolepis*).2969. **Xystreurus liolepis** Jordan & Gilbert.

Coast of California, from Point Conception southward.

Xystreurus liolepis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, p. 34, Santa Barbara, California.Genus 1002. **PARALICHTHYS** Girard.*Paralichthys* Girard, U. S. Pac. R. R. Surv., x, 146, 1858 (*californicus*).2970. **Paralichthys californicus** (Ayres). *Bastard Halibut*; *Monterey Halibut*.

Coast of California, Tomales Bay to San Diego.

Hippoglossus californicus Ayres, Proc. Cal. Ac. Sci. 1859, 29, and 1860, fig. 10, San Francisco.2971. **Paralichthys brasiliensis** (Ranzani).

South America, said to range northward to Guatemala.

Hippoglossus brasiliensis Ranzani, Nov. Spec. Pisc., 10, tab. III, 1840, Brazil.2972. **Paralichthys adspersus** (Steindachner).

Pacific Coast of tropical America; Cape San Lucas to Peru.

Pseudorhombus adspersus Steindachner, Ichth. Notizen, v, 1867, 9, pl. 2, Chin-chas Islands.2973. **Paralichthys woolmani** Jordan & Williams.

Galapagos Islands.

Paralichthys woolmani Jordan & Williams, Proc. U. S. Nat. Mus. 1896, Galapagos Islands.2974. **Paralichthys dentatus** (Linnæus). *Summer Flounder*.

Atlantic Coast of United States from Cape Cod to Florida.

Pleuronectes dentatus Linnæus, Syst. Nat., ed. XII, 1, 458, 1766, and of numerous copyists.2975. **Paralichthys lethostigma** Jordan & Gilbert. *Southern Flounder*.

South Atlantic and Gulf coasts of United States, north to New York.

Paralichthys lethostigma Jordan & Gilbert, Proc. U. S. Nat. Mus. 1884, 237, Jacksonville, Florida.2976. **Paralichthys squamilentus** Jordan & Gilbert.

South Atlantic and Gulf coasts of United States.

Paralichthys squamilentus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, p. 303, Pensacola, Florida.2977. **Paralichthys albigutta** Jordan & Gilbert.

South Atlantic and Gulf coasts of United States.

Paralichthys albigutta Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 302, Pensacola; Beaufort.

- 2978. *Paralichthys oblongus* (Mitchill). Four-spotted Flounder.**
Coasts of New England and New York.
Pleuronectes oblongus Mitchill, Trans. Lit. and Philos. Soc., 1, 1815, 391, New York.
- 2979. *Paralichthys æstuarium* Gilbert & Scofield.**
Upper part of Gulf of California.
Paralichthys æstuarium Gilbert & Scofield ms., 1896, near mouth of Colorado River.
- Genus 1003. ANCYLOPSETTA Gill.**
Ancylopsetta Gill, Proc. Ac. Nat. Sci. Phila. 1864, 224 (*quadrocellata*).
- 2980. *Ancylopsetta dendritica* Gilbert.**
Gulf of California.
Ancylopsetta dendritica Gilbert, Proc. U. S. Nat. Mus. 1890, 121, Gulf of California, at Albatross Station 3022, 30° 58' 30" N., 113° 17' 15" W., in 11 fathoms.
- 2981. *Ancylopsetta quadrocellata* Gill.**
South Atlantic and Gulf coasts of United States.
Ancylopsetta quadrocellata Gill, Proc. Ac. Nat. Sci. Phila. 1864, 224, Pensacola (not *Platessa quadrocellata* Storer).
- Genus 1004. NOTOSEMA Goode & Bean.**
Notosema Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 193, 1883 (*dilecta*).
- 2982. *Notosema dilectum* (Goode & Bean).**
Gulf Stream.
Notosema dilecta Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 193, 1883, Gulf Stream, off coast of South Carolina.
- Genus 1005. GASTROPSETTA B. A. Bean.**
Gastropsetta B. A. Bean, Proc. U. S. Nat. Mus. 1894, 633 (*frontalis*).
- 2983. *Gastropsetta frontalis* B. A. Bean.**
Key West and Apalachicola, Florida.
Gastropsetta frontalis B. A. Bean, Proc. U. S. Nat. Mus. 1894, 633, Key West and Apalachicola, at Albatross Stations 2317 and 2373, in 45 fathoms.
- Genus 1006. BOTHUS Rafinesque.**
Bothus Rafinesque, Carratteri di Alcuni Nuovi Gen., 23, 1810 (*Bothus rumolo* Rafinesque=*Pleuronectes rhombus* Linnaeus).
- Subgenus LOPHOPSETTA Gill.**
Lophopsetta Gill, Proc. U. S. Nat. Mus. 1888, 603 (*maculatus*).
- 2984. *Bothus maculatus* (Mitchill).**
Atlantic Coast of United States, from Cape Cod to South Carolina.
Pleuronectes maculatus Mitchill, Rept. Fish. N. Y., 9, 1814, New York.
- Genus 1007. TRICHOPSETTA Gill.**
Trichopsetta Gill, Proc. U. S. Nat. Mus. 1888, 603 (*ventralis*).
- 2985. *Trichopsetta ventralis* (Goode & Bean).**
Gulf of Mexico, in deep water.
Citharichthys ventralis Goode & Bean, Proc. U. S. Nat. Mus. 1885, 592, Gulf of Mexico, at Albatross Station 2386, 29° 15' N., 88° 6' W., in 60 fathoms.
- Genus 1008. ENGYOPHRYS Jordan & Bollman.**
Engyophrys Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 176 (*sancti-laurentii*).
- 2986. *Engyophrys sancti-laurentii* Jordan & Bollman.**
Pacific Ocean, off coast of Colombia.
Engyophrys sancti-laurentii Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 176, Pacific Coast, off coast of Colombia, at Albatross Stations 2795, 7° 57' N., 78° 55' W., and 2805, 7° 56' N., 79° 41' 30" W., in 33 and 51 fathoms.

Genus 1009. LIOGLOSSINA Gilbert.*Lioglossina* Gilbert, Proc. U. S. Nat. Mus. 1890, 122 (*tetrophthalmus*).**2987. Lioglossina tetrophthalmus Gilbert.**

Gulf of California.

Lioglossina tetrophthalmus Gilbert, Proc. U. S. Nat. Mus. 1890, 122, Gulf of California, at Albatross Stations 3014 and 3016, in 29 and 76 fathoms.**Genus 1010. AZEVIA Jordan & Goss.***Azevia* Jordan & Goss, Review Flounders and Soles, Rept. U. S. Fish Com. 1886 (1889), 271 (*panamensis*).**2988. Azevia panamensis (Steindachner).**

Pacific Coast of Central America.

Citharichthys panamensis Steindachner, Ichth. Beitr., III, 62, 1875, Panama.**2989. Azevia querna Jordan & Bollman.**

Pacific Coast of America, off coast of Colombia.

Azevia querna Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 174, off Colombia, at Albatross Stations 2800, 8° 51' N., 79° 31' 30" W., in 7 fathoms, and 2802, 8° 38' N., 79° 31' 30" W., in 16 fathoms.**Genus 1011. CYCLOPSETTA Gill.***Cyclopssetta* Gill, Proc. U. S. Nat. Mus. 1888, 601 (*fimbriata*).**2990. Cyclopssetta chittendeni B. A. Bean.**

Trinidad Island.

Cyclopssetta chittendeni B. A. Bean, Proc. U. S. Nat. Mus. 1894, 635, fig. 2, Trinidad Island.**2991. Cyclopssetta fimbriata (Goode & Bean.)**

Deep waters of the Gulf of Mexico.

Hemirhombus fimbriata Goode & Bean, Proc. U. S. Nat. Mus. 1885, 591, deep waters of Gulf of Mexico.**Genus 1012. CITHARICHTHYS Bleeker.***Citharichthys* Bleeker, Comptes Rendus Acad. Sci. Amsterd., XIII, Pleuron., 6, 1862 (*cayennensis* = *spilopterus*).**2992. Citharichthys sordidus (Girard).**

Pacific Coast of North America, in water of moderate depth from British Columbia to Lower California.

Pactichthys sordidus Girard, Proc. Ac. Nat. Sci. Phila., VII, 1854, 142, San Francisco.**2993. Citharichthys fragilis Gilbert.**

Gulf of California.

Citharichthys fragilis Gilbert, Proc. U. S. Nat. Mus. 1890, 120, Gulf of California, at Albatross Stations 3011, 3016, 3017, and 3033, in 18 to 76 fathoms.**2994. Citharichthys xanthostigma Gilbert.**

Magdalena Bay, west coast of Lower California, and in Gulf of California.

Citharichthys xanthostigma Gilbert, Proc. U. S. Nat. Mus. 1890, 120, west coast of Lower California in Magdalena Bay, and in the Gulf of California, at Albatross Stations 3039, 3043, and 3044, in 47 to 74 fathoms.**2995. Citharichthys stigmæus Jordan & Gilbert.**

Coast of southern California.

Citharichthys stigmæus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1882, 410, 411, Santa Barbara, California.**2996. Citharichthys dinoceros Goode & Bean.**

Deep waters of Gulf of Mexico.

Citharichthys dinoceros Goode & Bean, Bull. Mus. Comp. Zool., XII, No. 5, 157, 1886, off Martinique, St. Lucie, and Barbados.**2997. Citharichthys arctifrons Goode.**

Deep waters of Gulf Stream.

Citharichthys arctifrons Goode, Proc. U. S. Nat. Mus. 1880, 341, 472, Gulf Stream, off southern New England Coast.

2998. *Citharichthys unicornis* Goode.
Deep waters of the Gulf Stream.
Citharichthys unicornis Goode, Proc. U. S. Nat. Mus. 1880, 342, Gulf Stream, southeast of New England.
2999. *Citharichthys macrops* Dresel.
South Atlantic and Gulf coasts of United States.
Citharichthys macrops Dresel, Proc. U. S. N. M. 1884, 539, Pensacola, Florida.
3000. *Citharichthys uhleri* Jordan & Evermann.
West Indies.
Citharichthys uhleri Jordan & Evermann, Fishes North and Middle America, 1896, West Indies.
3001. *Citharichthys spilopterus* Günther.
Both coasts of tropical America, north to New Jersey and Mazatlan.
Citharichthys spilopterus Günther, Cat., IV, 1862, 421, Bahia; New Orleans; San Domingo; Jamaica.
3002. *Citharichthys gilberti* Jenkins & Evermann.
Pacific Coast of tropical America, from Gulf of California to Panama.
Citharichthys gilberti Jenkins & Evermann, Proc. U. S. Nat. Mus. 1888, 157, Guaymas, Mexico.
3003. *Citharichthys microstomus* Gill.
Gulf of Mexico.
Citharichthys microstomus Gill, Proc. Ac. Nat. Sci. Phila. 1864, 223, Beesley Point, New Jersey.
- Genus 1013. *ETROPUS* Jordan & Gilbert.
Etropus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 364 (*crossotus*).
3004. *Etropus crossotus* Jordan & Gilbert.
Tropical America, on both coasts, north to Guaymas, Mexico, and Cape Hatteras, North Carolina.
Etropus crossotus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 364, Mazatlan.
3005. *Etropus rimosus* Goode & Bean.
Gulf of Mexico.
Etropus rimosus Goode & Bean, Proc. U. S. Nat. Mus., VIII, 1885, 593, Gulf of Mexico, at Albatross Station 2408, 28° 28' N., 81° 25' W., in 210 fathoms.
- Genus 1014. *MONOLENE* Goode.
Monolene Goode, Proc. U. S. Nat. Mus. 1880, 338 (*sessilicauda*).
3006. *Monolene sessilicauda* Goode.
Deep waters of the Gulf Stream.
Monolene sessilicauda Goode, Proc. U. S. Nat. Mus. 1880, pp. 337, 338, deep water south of New England.
3007. *Monolene atrimana* Goode & Bean.
Deep water of the Caribbean Sea.
Monolene atrimana Goode & Bean, Bull. Mus. Comp. Zool., XII, 155, 1886, deep water off Barbados.
- Genus 1015. *PLEURONICHTHYS* Girard.
Pleuronichthys Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139 (*canosus*).
3008. *Pleuronichthys decurrens* Jordan & Gilbert.
Pacific Coast of United States, south to Monterey.
Pleuronichthys decurrens Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 453, San Francisco; Monterey Bay.
3009. *Pleuronichthys verticalis* Jordan & Gilbert.
Coast of California, in deep water.
Pleuronichthys verticalis Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 49, San Francisco.
3010. *Pleuronichthys canosus* Girard.
Alaska, southward to San Diego; most common about Puget Sound.
Pleuronichthys canosus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139, San Francisco.

Genus 1016. **HYPSOPSETTA** Gill.*Hypsopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 195 (*guttulatus*).3011. **Hypsopsetta guttulata** (Girard). *Diamond Flounder*.

Coast of California, Cape Mendocino to Magdalena Bay.

Pleuronichthys guttulatus Girard, Proc. Ac. Nat. Sci. Phila. 1856, 137, probably Tomales Bay, California.Genus 1017. **PAROPHRYNS** Girard.*Parophrys* Girard, Proc. Ac. Nat. Sci. Phila. 1854, 139 (*vetulus*).3012. **Parophrys vetulus** Girard.

Pacific Coast of North America, Alaska to Santa Barbara.

Parophrys vetulus Girard, Proc. Ac. Nat. Sci. Phila. 1854, 140, California.Genus 1018. **INOPSETTA** Jordan & Goss.*Inopsetta* Jordan & Goss, in Jordan, Cat. Fishes N. A., 136, 1885 (*ischyrus*).3013. **Inopsetta ischyra** (Jordan & Gilbert).

Puget Sound, probably northward to Alaska.

Parophrys ischyrus Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 276 and 453, Puget Sound.Genus 1019. **ISOPSETTA** Lockington.*Isopsetta* Lockington, in Jordan & Gilbert, Synopsis, 832, 1883 (*isolepis*).3014. **Isopsetta isolepis** (Lockington).

Puget Sound to Point Conception, in rather deep water.

Lepidopsetta isolepis Lockington, Proc. U. S. N. M. 1880, 325, San Francisco.Genus 1020. **LEPIDOPSETTA** Gill.*Lepidopsetta* Gill, Proc. Ac. Nat. Sci. Phila. 1864, 195 (*umbrosus*).3015. **Lepidopsetta bilineata** (Ayres).

Pacific Coast of North America, Alaska to Monterey.

Platessa bilineata Ayres, Proc. Cal. Ac. Sci. 1855, 40, San Francisco.Genus 1021. **LIMANDA** Gottsche.*Limanda* Gottsche, Wiegmann's Archiv 1835, 100 (*limanda*).3016. **Limanda ferruginea** (Storer).

Atlantic Coast of North America, Labrador to New York.

Platessa ferruginea Storer, Fishes Massachusetts, 141, pl. 2, 1839, Cape Ann.3017. **Limanda proboscidea** Gilbert.

Bristol and Herendeen bays, Alaska.

Limanda proboscidea Gilbert, Rept. U. S. F. C. 1893 (1896), 460, Bristol Bay, Alaska, at Albatross Stations 3239, 3240, and 3248, in 11 to 21 fathoms.3018. **Limanda aspera** Pallas.

Coasts of Alaska and Kamchatka.

Pleuronectes asper Pallas, Zoogr. Rosso-Asiat., III, 425, 1811, east coast of Siberia.3019. **Limanda beani** Goode.

Deep water, off coast of New England.

Limanda beani Goode, Proc. U. S. Nat. Mus. 1880, 473, southern coast of New England.Genus 1022. **PSEUDOPLEURONECTES** Bleeker.*Pseudopleuronectes* Bleeker, Compt. Rend. Ac. Amst., Pleur., 7, 1862 (*planus*).3020. **Pseudopleuronectes americanus** (Walbaum). *Common Flatfish or Winter Flounder*.

Atlantic Coast of North America, from Labrador to Cape Lookout.

Pleuronectes americanus Walbaum, Artdi Piscium, 113, 1792, Long Island; based on the "Flounder" of Schöpf.3021. **Pseudopleuronectes pinnifasciatus** (Kner).

Sea of Kamchatka, Decastris Bay.

Pleuronectes pinnifasciatus Kner, in Steindachner, Ueber einige Pleuronectiden, etc., aus Decastris Bay, 2, pl. 1, fig. 1, 1870, Decastris Bay.

Genus 1023. PLEURONECTES (Artdi) Linnæus.

Pleuronectes (Artdi) Linnæus, Syst. Nat., ed. x, 268, 1758 (includes all flounders).

3022. *Pleuronectes quadrituberculatus* Pallas.

Coasts of Alaska and Kamchatka.

Pleuronectes quadrituberculatus Pallas, Zoogr. Rosso-Asiat., III, 423, 1811, sea between Kamchatka and Alaska.

Genus 1024. LIOPSETTA Gill.

Liopsetta Gill, Proc. Ac. Nat. Sci. Phila. 1864, 217 (*glaber*).

3023. *Liopsetta putnami* (Gill).

Atlantic Coast of North America, from Cape Cod northward to Labrador and beyond.

Euchalorodus putnami Gill, Proc. Ac. Nat. Sci. Phila. 1864, 216-221, Salem, Massachusetts.

3024. *Liopsetta glacialis* (Pallas).

Arctic Ocean, south to St. Michaels.

Pleuronectes glacialis Pallas, Itin., III, App., 706, 1776, mouth of river Obi.

Genus 1025. PLATOPHRYS Swainson.

Platophrys Swainson, Nat. Hist. Classn. Fishes, etc., II, 302, 1839 (*ocellatus*).

3025. *Platophrys spinosus* (Poey).

West Indies.

Rhomboidichthys spinosus Poey, Synopsis, 409, 1868, Cuba.

3026. *Platophrys tæniopterus* Gilbert.

Gulf of California and western coast of Lower California.

Platophrys tæniopterus Gilbert, Proc. U. S. Nat. Mus. 1890, 118, Gulf of California and coast of Lower California.

3027. *Platophrys constellatus* Jordan & Evermann.

Galapagos Archipelago.

Platophrys constellatus Jordan & Evermann, Fishes North and Middle America, 1896, Galapagos Islands.

3028. *Platophrys ocellatus* Swainson.

Tropical America; sandy shores from Long Island to Rio Janeiro.

Platophrys ocellatus Swainson, Nat. Hist. Classn. Fishes, II, 302, 1839, no locality given.

3029. *Platophrys maculifer* (Poey).

West Indies.

Pleuronectes maculiferus Poey, Memorias, II, 316, 1860, Cienfuegos, Cuba.

3030. *Platophrys ellipticus* (Poey).

West Indies.

Pleuronectes ellipticus Poey, Memorias, II, 315, 1860, Cuba.

3031. *Platophrys lunatus* (Linnæus).

West Indies.

Pleuronectes lunatus Linnæus, Syst. Nat., ed. x, 269, 1758; based on Catesby, and of the various copyists.

3032. *Platophrys leopardinus* (Günther).

Gulf of California.

Rhomboidichthys leopardinus Günther, Cat., IV, 434, 1862, locality unknown.

Genus 1026. SYACIUM Ranzani.

Syacium Ranzani, Nov. Spec. Pisc., Dis. Sec. 1840, 20 (*micrurum*).

3033. *Syacium papillosum* (Linnæus).

West Indies.

Pleuronectes papillosus Linnæus, Syst. Nat., ed. x, 271, 1758; based on Marco-grave, and of the earlier copyists.

3034. *Syacium latifrons* (Jordan & Gilbert).
Pacific Coast of tropical America; Panama.
Citharichthys latifrons Jordan & Gilbert, Bull. U. S. F. C. 1881, 334, Panama.

3035. *Syacium ovale* (Günther).
Pacific Coast of Tropical America, Mazatlan to Panama.
Hemirhombus ovalis Günther, Proc. Zool. Soc. Lond. 1864, 154, Panama.

3036. *Syacium micrurum* Ranzani.
West Indies; Key West to Rio Janeiro.
Syacium micrurum Ranzani, Nov. Spec. Pisc. Disc. Sec., 1840, 20, pl. 5, Brazil.

Genus 1027. **PLATICHTHYS** Girard.
Platichthys Girard, Proc. Ac. Nat. Sci. Phila. 1854, 136 (*rugosus* = *stellatus*).

3037. *Platichthys stellatus* Pallas. *California Flounder*.
Pacific Coast of America, from Point Conception to the Arctic Ocean, and south to Sakhalin.
Pleuronectes stellatus Pallas, Zoogr. Rosso-Asiat., III, 416, 1811, Alaska.

Genus 1028. **EMBASSICHTHYS** Jordan & Evermann.
Embassichthys Jordan & Evermann, Fishes N. and M. Amer., 1896 (*bathybius*).

3038. *Embassichthys bathybius* (Gilbert).
Coast of California south of Point Conception.
Cynicoglossus bathybius Gilbert, Proc. U. S. Nat. Mus. 1890, 123, Santa Barbara Channel, at Albatross Station 2980, in 603 fathoms.

Genus 1029. **MICROSTOMUS** Gottsche.
Microstomus Gottsche, Wiegmann's Archiv 1835, 150 (*latidens*); not *Microstoma* Risso, 1826.

3039. *Microstomus kitt* (Walbaum). *Smear Dab*.
Arctic Europe, west to the sea between Greenland and Iceland.
Pleuronectes kitt Walbaum, Artdi Piscium, III, 120, 1792, after Ray; the description in part confused with that of *Lepidorhombus*.

3040. *Microstomus pacificus* (Lockington).
Pacific Coast of North America, Monterey to Vancouver Island, and probably northward.
Glyptocephalus pacificus Lockington, Rept. Cal. Com. Fisheries 1878-79, 43, off Point Reyes, California.

Genus 1030. **GLYPTOCEPHALUS** Gottsche.
Glyptocephalus Gottsche, Wiegmann's Arch. 1835, 156 (*saxicola* = *cynoglossus*).

3041. *Glyptocephalus cynoglossus* (Linnæus).
North Atlantic, chiefly in deep water, south to Cape Cod and France.
Pleuronectes cynoglossus Linnæus, Syst. Nat., ed. x, 269, 1758; after Gronow.

3042. *Glyptocephalus zachirus* Lockington.
Deep waters of the Northern Pacific; thus far known only from about San Francisco.
Glyptocephalus zachirus Lockington, Proc. U. S. Nat. Mus. 1879, 88, San Francisco.

Family CCXXIV. **SOLEIDÆ**. The Soles.

Genus 1031. **ACHIRUS** Lacépède.
Achirus Lacépède, Hist. Nat. Poiss., IV, 659, 1803 (*fasciatus*, etc.).

3043. *Achirus achirus* (Linnæus).
Atlantic coasts of tropical America.
Pleuronectes achirus Linnæus, Sys. Nat., ed. x, 268, 1758; based on Gronow.

3044. *Achirus inscriptus* Gosse.
West Indies, north to Key West.
Achirus inscriptus Gosse, Nat. Sojourn Jamaica, 52, pl. 1, fig. 4, 1851, Jamaica.

3045. *Achirus klunzingeri* (Steindachner).
Pacific Coast of tropical America, Panama to Guayaquil.
Solea klunzingeri Steindachner, Zur Fische des Cauca und der Flusse bei Guayaquil, 44, 1879, Guayaquil, Ecuador.
3046. *Achirus lineatus* (Linnæus).
West Indies, Key West and Egmont Key to Uruguay.
Pleuronectes lineatus Linnæus, Syst. Nat., ed. x, 268, 1758; based on Brown & Sloane; not of ed. xii, which is *Achirus fasciatus*.
3047. *Achirus mazatlanus* (Steindachner). *Mexican Sole; Teipalcate*.
Pacific Coast of tropical America.
Solea mazatlanana Steindachner, Ichth. Notizen, ix, 23, 1869, Mazatlan.
3048. *Achirus fonsecensis* (Günther).
Pacific Coast of tropical America, Mazatlan to Fonseca.
Solea fonsecensis Günther, Cat., iv, 475, 1862, Gulf of Fonseca.
3049. *Achirus fischeri* (Steindachner).
Pacific coast of Isthmus of Panama.
Solea fischeri Steindachner, Beitr. Kenntniss Flus-Fische Sud-Amer., 13, 1879, Rio Mamone, near Panama.
3050. *Achirus scutum* (Günther).
Pacific Coast of Central America.
Solea scutum Günther, Cat., iv, 474, 1862, Gulf of Fonseca, Panama.
3051. *Achirus fimbriata* (Günther).
Gulf of Fonseca.
Solea fimbriata Günther, Cat., iv, 477, 1862, Gulf of Fonseca.
3052. *Achirus fasciatus* Lacépède. *American Sole; Hog-choker*.
Atlantic Coast of United States, from Cape Cod to Texas; often ascending streams.
Achirus fasciatus Lacépède, Hist. Nat. Poiss., iv, 659, 662, 1803, Charleston, S. C.; description based entirely on the Linnæan account of the fish sent by Garden.
3053. *Achirus panamensis* (Steindachner).
Pacific Coast of Tropical America, Panama.
Solea panamensis Steindachner, Ichth. Beitr., v, 10, pl. 2, 1876, Panama.
- Genus 1032. **APIONICHTHYS** Kaup.
Apionichthys Kaup, in Wiegmann's Archiv 1858, 104 (*dumerili*).
3054. *Apionichthys unicolor* (Günther).
West Indies.
Soleotalpa unicolor Günther, Cat., iv, 1862, 489, West Indies.
- Genus 1033. **SYMPHURUS** Rafinesque.
Symphurus Rafinesque, Indice d' Ittiologia Siciliana, 52, 1810 (*nigrescens*).
3055. *Symphurus marginatus* (Goode & Bean).
West Indies.
Aphoristia marginata Goode & Bean, Bull. Mus. Comp. Zool., x, No. 5, 153, 1883, off St. Vincent, etc.
3056. *Symphurus atramentatus* Jordan & Bollman.
Off coast of Colombia.
Symphurus atramentatus Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 177, off coast of Colombia, at Albatross Station 2795, 7° 57' N., 78° 55' W., in 33 fathoms.
3057. *Symphurus elongatus* (Günther).
Pacific Coast of tropical America.
Aphoristia ornata var. *elongata* Günther, Fishes Cent. Am., 473, 1869, Panama.
3058. *Symphurus leei* Jordan & Bollman.
Off the coast of Colombia.
Symphurus leei Jordan & Bollman, Proc. U. S. Nat. Mus. 1889, 178, off coast of Colombia, at Albatross Station 2804, 8° 16' 30" N., 79° 37' 45" W., in 47 fathoms.

3059. *Symphurus atricauda* (Jordan & Gilbert).
 Lower California, north to San Diego.
Aphoristia atricauda Jordan & Gilbert, Proc. U. S. Nat. Mus. 1880, 23, San Diego, California.
3060. *Symphurus plagusia* (Bloch & Schneider). *Acedia*.
 West Indies, south to Rio Janeiro.
Pleuronectes plagusia Bloch & Schneider, Syst. Ichthyol., 162, 1801; after Brown.
3061. *Symphurus plagiusa* (Linnæus). *Tongue-fish*.
 South Atlantic and Gulf coasts of United States.
Pleuronectes plagiusa Linnæus, Syst. Nat., ed. XII, 455, 1766, on a specimen from Dr. Garden, probably from Charleston, but the locality not quite certain.
3062. *Symphurus diomedea* (Goode & Bean).
 Gulf of Mexico, off Key West, Florida.
Aphoristia diomedea Goode & Bean, Proc. U. S. Nat. Mus. 1885, 589, off Key West, Florida, at Albatross Station 2414, 25° 4' 30" N., 83° 21' 15" W., in 24 fathoms.
3063. *Symphurus pusillus* (Goode & Bean).
 Off Atlantic Coast of United States, in deep water.
Aphoristia pusilla Goode & Bean, Proc. U. S. Nat. Mus. 1885, 590, Gulf Stream, at 40° 7' 48" N., 70° 45' 54" W., and 40° 1' N., 69° 56' W.
3064. *Symphurus piger* (Goode & Bean).
 West Indies and Gulf of Mexico, in deep water.
Aphoristia pigra Goode & Bean, Bull. Mus. Comp. Zool., XIII, No. 5, 154, 1886, St. Kitts, Key West, and Cedar Keys, in about 250 fathoms.
3065. *Symphurus nebulosus* (Goode & Bean).
 Gulf Stream.
Aphoristia nebulosa Goode & Bean, Bull. Mus. Comp. Zool., XII, 192, 1883, Gulf Stream, off the coast of California.
3066. *Symphurus williamsi* Jordan & Starks.
 West coast of Mexico.
Symphurus williamsi Jordan & Starks, in Jordan, Fishes Sinaloa, 506, 1895, Mazatlan, Sinaloa.
3067. *Symphurus fasciolaris* Gilbert.
 Gulf of California.
Symphurus fasciolaris Gilbert, Proc. U. S. N. M. 1891, 566, Gulf of California.

Order DD. PEDICULATI. The Pediculate Fishes.

Family CCXXV. LOPHIIDÆ. The Fishing Frogs.

Genus 1034. LOPHIUS (Artedi) Linnæus. *Fishing-Frogs*.

Lophius (Artedi) Linnæus, Syst. Nat., ed. XII, 402, 1766 (*piscatorius*).

3068. *Lophius piscatorius* Linnæus. *Fishing-frog; Monk-fish; Goose-fish; Angler; All-mouth; Bellows-fish*.

North Atlantic, on both coasts.

Lophius piscatorius Linnæus, Syst. Nat., ed. XII, 402, 1766, no locality given.

Genus 1035. LOPHIOMUS Gill.

Lophiomus Gill, Proc. U. S. Nat. Mus. 1882, 552 (*setigerus*).

3069. *Lophiomus setigerus* Wahlenberg.

Coasts of China and Japan.

Lophius setigerus Wahlenberg, Skrivt. Naturh., IV, 214, tab. 3, figs. 5 and 6.

Family CCXXVI. ANTENNARIIDÆ.

Genus 1036. PTEROPHRYNE Gill.

Pterophryne Gill, Proc. Ac. Nat. Sci. Phila. 1863, 90 (*histrio*).

3070. *Pterophryne histrio* (Linnæus).

Tropical parts of the Atlantic; abundant on our Gulf Coast and occasional southward.

Lophius histrio Linnæus, Syst. Nat., ed. x, 237, 1758, in the open sea.

Genus 1037. ANTENNARIUS Lacépède.

Antennarius Lacépède, Hist. Nat. Poiss., i, 421, 1798 (*chironectes*).

3071. *Antennarius sanguineus* Gill.

Cape San Lucas, Lower California.

Antennarius sanguineus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 91, Cape San Lucas, Lower California.

3072. *Antennarius strigatus* Gill.

Cape San Lucas, Lower California.

Antennarius strigatus Gill, Proc. Ac. Nat. Sci. Phila. 1863, 92, Cape San Lucas, Lower California.

3073. *Antennarius scaber* (Cuvier).

Caribbean Sea; Port Castries; St. Lucia.

Chironectes scaber Cuvier, Mém. Mus., iii, 425, pl. 16, fig. 2.

3074. *Antennarius reticularis* Gilbert.

Gulf of California.

Antennarius reticularis Gilbert, Proc. U. S. Nat. Mus. 1891, 566, Gulf of California, at Albatross Station 2825, in 7 fathoms.

3075. *Antennarius multiocellatus* (Cuvier & Valenciennes).

Garden Key, Florida, to Martinique.

Chironectes multiocellatus Cuvier & Valenciennes, Hist. Nat. Poiss., 422, 1837, Martinique.

3076. *Antennarius tigris* Poey.

Cuba.

Chironectes tigris Poey, Memorias, i, 217, pl. 17, fig. 2, 1851, Cuba.

3077. *Antennarius inops* Poey.

West Indies.

Antennarius inops Poey, Ann. Sci. Nat. Madrid 1874, Puerto Rico.

3078. *Antennarius corallinus* Poey. *Martin Pescador*.

Cuba.

Antennarius corallinus Poey, Repertorio, i, 188, 1865, Havana.

3079. *Antennarius tenebrosus* (Poey).

Cuba.

Chironectes tenebrosus Poey, Memorias, i, 219, pl. 17, fig. 1, 1851, Cuba.

3080. *Antennarius ocellatus* (Bloch & Schneider).

Pensacola, Florida.

Lophius ocellatus Bloch & Schneider, Syst. Ichth., 142, 1801.

3081. *Antennarius sonntagii* (Müller).

Gulf of Mexico.

Chironectes sonntagii Müller, Reison in Mexico, etc., i, 180, 1864, north of the Bahamas.

Genus 1038. CHAUNAX Lowe.

Chaunax Lowe, Trans. Zool. Soc. Lond., iii, 1846, 339 (*pictus*).

3082. *Chaunax pictus* Lowe.

Madeira and off the coast of Rhode Island.

Chaunax pictus Lowe, Trans. Zool. Soc. Lond. 1846, 339, Camera de Lobos.

Family CCXXVII. CERATIIDÆ.

Genus 1039. CERATIAS Krøyer.

Ceratias Krøyer, Naturhist. Tidsskrift, 2 Række, 1, 1844, 639 (*holbølli*).

3083. *Ceratias holbølli* Krøyer.

Greenland.

Ceratias holbølli Krøyer, Naturh. Tidsskrift 1844, 639, Greenland.

Genus 1040. MANCALIAS Gill.

Mancalias Gill, Proc. U. S. Nat. Mus., 1, 1878, 227 (*uranoscopus*).

3084. *Mancalias uranoscopus* (Murray).

Deep seas; taken at Madeira and off the coast of southern New England. *Ceratius uranoscopus* Murray, in Wyville Thompson, The Atlantic, 11, 67, 1878, off Madeira.

3085. *Mancalias shufeldti* (Gill).

Western Atlantic.

Typhlopsaras shufeldti Gill, Forest and Stream, November 8, 1883, 284, western Atlantic.

Genus 1041. CRYPTOPSARAS Gill.

Cryptopsaras Gill, Forest and Stream, November 8, 1883 (*couesii*).

3086. *Cryptopsaras couesii* Gill.

Gulf Stream.

Cryptopsaras couesii Gill, Forest and Stream, November 8, 1883, 284, Gulf Stream, at Albatross Station 2101.

Genus 1042. ONEIRODES Lütken.

Onciroides Lütken, Overs. Kong. Dansk. Vidensk. Selsk. Forhandl. 1871, 56 (*eschrichtii*).

3087. *Onciroides eschrichti* Lütken.

Deep sea, off Greenland.

Onciroides eschrichti Lütken, Dansk. Vidensk. Selsk. Forh. 1871, 57, Greenland.

Genus 1043. HIMANTOLOPHUS Reinhardt.

Himantolophus Reinhardt, Dansk. Vid. Selsk. Nat. 1837, 74 (*grænlandicus*).

3088. *Himantolophus grænlandicus* Reinhardt.

Greenland.

Himantolophus grænlandicus Reinhardt, Dansk. Vidensk. Selsk. Nat. Math. Afh., 1837, 74, Greenland.

Genus 1044. CORYNOLOPHUS Gill.

Corynolophus Gill, Proc. U. S. Nat. Mus. 1878, 219 (*reinhardti*).

3089. *Corynolophus reinhardti* (Lütken).

Greenland.

Himantolophus reinhardti Lütken, Dansk. Vid. Selsk. 1878, 321, Greenland.

Genus 1045. LINOPHRYNE Collett.

Linophryne Collett, Proc. Zool. Soc. Lond. 1886, 138 (*lucifer*).

3090. *Linophryne lucifer* Collett.

Open Atlantic.

Linophryne lucifer Collett, Proc. Zool. Soc. Lond. 1886, 138, pl. 15, off Madeira, lat. 36° N., long. 20° W.

Genus 1046. LIOCETUS Günther.

Liocetus Günther, Challenger Rept., xxii, 57, 1887 (*murrayi*).

3091. *Liocetus murrayi* Günther.

Mid-Atlantic at Challenger Stations 106 and 348.

Melanocetus (Liocetus) murrayi Günther, Challenger Rept., xxii, 57, pl. 11, fig. A, 1887, mid-Atlantic.

Genus 1047. CAULOPHRYNE Goode & Bean.*Caulophryne* Goode & Bean, Oceanic Ichth., 496, 1896 (*jordani*).**3092. *Caulophryne jordani* Goode & Bean.**

Atlantic Coast, off New Jersey.

Caulophryne jordani Goode & Bean, Ocean. Ichth., 496, fig. 409, 1896, Gulf Stream, at 39° 27' N., 71° 15' W., in 1,276 fathoms.**Family CCXXVIII. OGCOEPHALIDÆ. The Bat-Fishes.****Genus 1048. OGCOEPHALUS Fischer.***Ogcocephalus* Fischer, Zoognosia, 78, 1813 (*vespertilio*).**3093. *Ogcocephalus vespertilio* (Linnaeus).**

West Indies, north to Carolina.

Lophius vespertilio Linnaeus, Syst. Nat., ed. XII, 402, 1766, American coast of Atlantic Ocean.**Genus 1049. ZALIEUTES Jordan & Evermann.***Zalieutes* Jordan & Evermann, Fishes North and Middle America, 1896 (*elater*).**3094. *Zalieutes elater* (Jordan & Gilbert).**

West coast of Mexico.

Malthe elater Jordan & Gilbert, Proc. U. S. Nat. Mus. 1881, 365, Mazatlan, Mexico.**Genus 1050. HALIEUTICHTHYS Poey.***Halieutichthys* Poey, in Gill, Proc. Ac. Nat. Sci. Phila. 1863, 89 (*reticulatus*).**3095. *Halieutichthys aculeatus* (Mitchill).**

Cuba to southern Florida.

Lophius aculeatus Mitchill, Amer. Month. Mag. 1818, 325, Straits of Bahama.**Genus 1051. HALIEUTÆA Cuvier & Valenciennes.***Halieutæa* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 455, 1837 (*stellatus*).**3096. *Halieutæa spongiosa* Gilbert.**

Pacific Ocean, off Lower California.

Halieutæa spongiosa Gilbert, Proc. U. S. Nat. Mus. 1890, 124, at Albatross Station 2992, 18° 17' 30" N., 114° 43' 15" W., in 460 fathoms.**Genus 1052. HALIEUTELLA Goode & Bean.***Halieutella* Goode & Bean, Proc. Biol. Soc. Wash. 1882 (1885), 88 (*lappa*).**3097. *Halieutella lappa* Goode & Bean.**

Gulf Stream.

Halieutella lappa Goode & Bean, Proc. Biol. Soc. Wash. 1882 (1885), 88, Gulf Stream, at Fish Hawk Station 1151, 39° 58' 30" N., 70° 37' W., in 125, fathoms.**Genus 1053. DIBRANCHUS Peters.***Dibranchus* Peters, Monatsb. Königl. Preuss. Ak. Wiss., Berlin, 1875 (1876), 736 (*atlanticus*).**3098. *Dibranchus atlanticus* Peters.**

Gulf Stream.

Dibranchus atlanticus Peters, Monatsberichte Königl. Preuss. Ak. Wiss. Berlin, 1875 (1876), 736, 10° 12' 9" N., 17° 25' 5" W., coast of west Africa.

INTRODUCED SPECIES.

Family CYPRINIDÆ.

1. *Cyprinus carpio* Linnæus. *Carp*; *German Carp*.
Fresh waters of Asia, but introduced into Europe and America as a food-fish. It has been extensively introduced into private ponds in nearly all parts of the United States. From the ponds it has escaped into the streams and lakes, and is now an abundant fish in most of our larger, warmer rivers and in the ponds and bayous of the Mississippi Valley, on the south shore of Lake Erie, in the lower Columbia River, and in many other places.
Cyprinus carpio Linnæus, Syst. Nat., ed. x, 320, 1758.
2. *Carassius auratus* (Linnæus). *Goldfish*.
Native to China and Japan, but introduced everywhere as an aquarium fish and now naturalized in many of the streams in the eastern United States.
Cyprinus auratus Linnæus, Syst. Nat., ed. x, 323, 1758.
3. *Tinca tinca* (Linnæus). *Tench*.
Native in Europe. Introduced into the United States, but not yet well established anywhere.
Cyprinus tinca Linnæus, Syst. Nat., ed. x, 321, 1758, "habitat in Europæ stagnis lacubus."
4. *Idus idus* (Linnæus). *Golden Ide*.
Native in Europe. Introduced into the United States, but it has not yet become well established.
Cyprinus idus Linnæus, Syst. Nat., ed. x, 324, 1758, fresh waters of Europe.

Family SALMONIDÆ.

5. *Salmo trutta levenensis* (Walker). *Loch Leven Trout*.
Loch Leven, in Fifeshire, and other lochs in the south of Scotland and north of England. Introduced by the U. S. Fish Commission into Shoshone Lake, in the Yellowstone National Park, and elsewhere.
Salmo levenensis Walker, Wernerian Memoirs, 1, 541, 1808.
6. *Salmo fario* Linnæus. *Von Behr Trout*; *Brown Trout*.
Northern Europe. Introduced into the waters of Yellowstone Park and elsewhere.
Salmo fario Linnæus, Syst. Nat., ed. x, 309, 1758, "habitat in Svecia, Helvetiæ fluviis."

ADDENDUM.

The following species were inadvertently omitted from the foregoing list:

- 740½. *Stolephorus scoufieldi* Jordan & Culver.
Mazatlan, west coast of Mexico.
Stolephorus scoufieldi Jordan & Culver, Fishes of Sinaloa, 410, 1895, Mazatlan.
- 1999½. *Nexilaris concolor* (Gill).
Panama.
Euschistodus concolor Gill, Proc. Ac. Nat. Sci. Phila., 1862, 145, Panama.
This is a valid species, the type of the genus *Nexilaris* Gilbert ms., distinguished by the adnate preopercle.

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