

This species is not brought to market in large numbers, and is sold under the name of "Sole." Those I have seen on the stalls average about the same size as those of which the measurements are given. In No. 5, the lateral line is almost straight. It is easily distinguished by its highly ctenoid scales of uniform character, its small eyes, and dull gray color.

It is evident from the dimensions of the various species given in the preceding pages, that the number of dorsal and anal fin-rays and the proportional width of the interocular space are subject to great variation in all the species. I am inclined to believe that, as a rule, the interocular space increases in proportional width with the age of the fish, since, although two fishes of the same size may differ in this respect, or the smaller of two not greatly differing in size may have the wider interorbital area, yet very large specimens invariably have this space relatively wider than very small ones. The number of pectoral rays is also inconstant.

I much regret that, as I have only seen one specimen of the *Hippoglossus* of this coast, I am at present unable to settle the question of its identity with the European species; but I expect to be able to do this before many months have passed.

In conclusion, I have to thank Mr. W. G. W. Harford, the Director of the Museum of the California Academy of Sciences, for his courtesy and his assistance in many ways.

MAY 14, 1879.

A PRELIMINARY CATALOGUE OF THE FISHES OF THE ST. JOHN'S RIVER AND THE EAST COAST OF FLORIDA, WITH DESCRIPTIONS OF A NEW GENUS AND THREE NEW SPECIES.

By G. BROWN GOODE.

In the following list are enumerated the species of fishes known, or supposed to occur, in the waters of East Florida. Those which have not been observed by the writer, or by other recent explorers, are marked by asterisks. The occurrence of all these species is almost absolutely certain, for, with one or two exceptions, they have been taken on the Atlantic coast north of Florida, and to the south and west in the Gulf of Mexico or the Antilles. Any information regarding the occurrence of these or other species in East Florida is solicited.

In a more extended paper, now almost ready for the press, the habits, geographical distribution, and economical history of these species will be discussed. Of the 223 species here catalogued, 33 only have been taken north of Cape Cod.

SMITHSONIAN INSTITUTION, May 23, 1879.

MALTHEIDÆ.

1. *Malthe cubifrons*, Richardson.
St. Augustine.
2. *Haliutichthys aculeatus*, (Mitchill) Goode.*
Described by Mitchill from the Bahama Straits in 1815.

ANTENNARIIDÆ.

3. *Pterophryne histrio*, (Linn.) Gill.
St. Augustine; mouth of St. John's.
4. *Antennarius pleurophthalmus*, Gill.*
Described from Key West.
5. *Antennarius annulatus*, Gill.*
Described from Garden Key.

ORTHAGORISCIDÆ.

6. *Mola rotunda*, Cuvier.—*Sun-fish*.
Mouth of St. John's.

DIODONTIDÆ.

7. *Chilomycterus geometricus*, (Schneider) Kaup.—*Toad-fish*; *Porgy*.
Mouth of St. John's, Indian River.
8. *Diodon hystrix*, Linn.*

TETRODONTIDÆ.

9. *Lagocephalus lævigatus*, (Linn.) Gill.—*Rabbit-fish*.
Mouth of St. John's.
10. *Cirrisomus turgidus*, (Mitchill) Jordan & Gilbert.
Mouth of St. John's.
11. *Cirrisomus testudineus*, (Linn.) Jordan & Gilbert.*—*Globe-fish*.
12. *Cirrisomus Spengleri*, (Bloch) Jordan & Gilbert.*

OSTRACIONTIDÆ.

13. *Ostracion trigonus*, Linn.
St. Augustine; Matanzas; Cumberland Island, Ga.
14. *Ostracion quadricornis*, Linn.*

BALISTIDÆ.

15. *Alutera Schœpfi*, (Walbaum) Goode & Bean
16. *Alutera scripta*, (Osbeck) Bleeker.*
17. *Monacanthus occidentalis*, Günther.
18. *Balistes capriscus*, Linn.*
19. *Balistes vetula*, Linn.*

SYNGNATHIDÆ.

20. *Syngnathus fuscus*, Storer.
St. John's River.

HIPPOCAMPIDÆ.

21. *Hippocampus antiquorum*, Linn.
St. John's River.

SOLEIDÆ.

22. *Achirus lineatus*, (Linn.) Cuvier.—*Choke-fish*.
St. John's River.
23. *Aphoristia plagiusa*, (Linn.) Jordan & Gilbert.*

PLEURONECTIDÆ.

24. *Pseudorhombus dentatus*, (Linn.) Günther.—*Flounder*.
St. John's River; St. Augustine.
25. *Pseudorhombus quadrocellatus*, (Gill) Jordan & Gilbert.*
Pensacola; Charleston.
26. *Citharichthys spilopterus*, Günther.
Mouth of St. John's.

OPHIIDIIDÆ.

27. *Leptophidum profundorum*, Gill.
Described from Gulf Stream off coast of Florida.

BLENNIIDÆ.

28. *Labrosomus nuchipinnis*, (Quoy & Gaimard) Poey.*
The Museum has specimens from South Carolina.

BATRACHIDÆ.

29. *Batrachus tau*, (Linn.) Cuv.
Mouth of St. John's.

URANOSCOPIDÆ.

30. *Uranoscopus y-græcum*, Cuv. & Val.
New Berlin; St. Augustine.
31. *Astroscopus anoplus*, (Cuv. & Val.) Brevoort.*

GOBIIDÆ.

32. ? *Gobius carolinensis*, Gill.
Arlington.
33. *Gobiosoma alepidotum*, (Schneider) Girard.*
34. *Dormitator lineatus*, Gill.*

TRIGLIDÆ.

35. *Dactylopterus volitans*, (Linn.) Cuv.
 St. Augustine; mouth of St. John's.
36. *Prionotus punctatus*, (Bloch) Cuv.*
37. *Prionotus tribulus*, Cuv. & Val.
 St. Augustine.

LABRIDÆ.

38. *Chærojulis grandisquamis*, Gill.*
 Described from Cape Hatteras, and known from no other locality.
39. *Xyrichtys lineatus*, (Gmelin) Cuv. & Val.

POMACENTRIDÆ.

40. *Glyphidodon saxatilis*, (Linn.) Cuvier.*

CHÆTODONTIDÆ.

41. *Holocanthus ciliaris*, (Linn.).*

XIPHIIDÆ.

42. *Xiphias gladius*, Linn.—*Sword-fish*
 Off mouth of St. John's.
43. *Tetrapturus albidus*, Poey.*
44. *Tetrapturus amplus*, Poey.*
45. *Histiophorus gladius*, (Brouss.).
 Between Savannah and Indian River, April, 1879.

TRICHIURIDÆ

46. *Trichiurus lepturus*, Linn.
 Jacksonville and elsewhere.

SCOMBRIDÆ.

47. *Orcynus alliteratus*, (Rafinesque) Gill.*
48. *Sarda pelamys*, (Linn.) Cuv.*
49. *Cybium maculatum*, (Mitchill) Agassiz.—*Spanish Mackerel*.
50. *Cybium regale*, (Bloch) Cuvier.—*King-fish*.
51. *Cybium caballa*, Cuv. & Val.—*King-fish*.

CARANGIDÆ.

52. *Vomer setipinnis*, (Mitchill) Ayres.*
53. *Selene geometrica*, (Mitchill) Goode.*
54. *Argyreus vomer*, (Linn.) Cuv. & Val.
 St. John's River, at Jacksonville.
55. *Decapterus punctatus*, (Agassiz) Gill.*
56. *Decapterus macarellus*, (Cuv. & Val.) Poey.*
57. *Trachurops crumenophthalmus*, (Bloch) Gill.*

58. *Paratractus pisquetus*, (Cuv. & Val.) Gill.*
 59. *Carangus hippos*, (Linn.) Gill.—*Crerallé*.
 Mouth of St. John's River.
 60. *Carangus fallax*, (Cuv. & Val.) Girard.*
 61. *Carangus chrysos*, (Mitchill) Girard.
 St. John's River, near its mouth.
 62. *Carangops falcatus*, (Holbrook) Gill.*
 63. *Carangoides cibi*, Poey.*
 64. *Blepharis crinitus*, (Akerly) DeKay.*
 65. *Chloroscombrus chrysurus*, (Linn.) Gill.
 St. John's River, at Arlington.
 66. *Trachynotus carolinus*, (Linn.) Gill.—*Pompano*; *Jack* (St. Augustine).
 Frequently taken at the mouth of the St. John's.
 67. *Trachynotus ovatus*, (Linn.) Günther.*
 68. *Trachynotus glaucus*, (Bloch) Cuv. & Val.*
 69. *Trachynotus goreensis*, Cuv. & Val.*
 70. *Naucrates ductor*, (Linn.) Rafinesque.—*Pilot-fish*.
 71. *Seriola fasciatus*, (Bloch) Cuv. & Val.*
 72. *Seriola zonata*, (Mitchill) Cuv. & Val.*
 73. *Seriola Boscii*, Cuv. & Val.*
 Originally described from South Carolina. It should be looked for.

STROMATEIDÆ.

74. *Peprilus alepidotus*, (Linn.) Cuvier.
 Fernandina.

BRAMIDÆ.

75. *Pteraclis carolinus*, Cuv. & Val.*
 Originally described from the Carolinas. To be looked for.

BERYCIDÆ.

76. *Holocentrum rufum*, (Walbaum) Goode.*

SCLENIDÆ.

77. *Cynoscion carolinensis*, (Cuv. & Val.) Gill.—*Sea Trout*.
 Very common.
 78. *Cynoscion regalis*, (Schneider) Gill.*
 The occurrence of this species needs confirmation.
 79. *Cynoscion nothus*, (Holbrook) Gill.—*Shad Trout*.
 Mouth of the St. John's and St. Augustine.
 80. *Cynoscion thalassinus*, (Holbrook) Gill.
 A species of doubtful permanence.
 81. *Pogonias chromis*, (Linn.) Cuvier.—*Drum*.
 Very common.
 82. *Liostomus xanthurus*, Lacépède.*
 Doubtfully distinct from *L. philadelphicus*.

83. *Liostomus philadelphicus*, (Linn.) Goode.—*Bezuga* or *Masooka*; *Oldwife* or *Spot*.
Very common.
84. *Stelliferus lanceolatus*, (Holbrook) Gill.
Matanzas River Inlet.
85. *Bairdiella argyroleuca*, (Mitchill) Gill.—*Yellow-tail*.
Very common.
86. *Sciænops ocellatus*, (Linn.) Gill.—*Channel Bass*; *Red-fish*; *Red Horse*.
Very common.
87. *Menticirrus alburnus*, (Linn.) Gill.—*Whiting*
Very common.
88. *Menticirrus nebulosus*, (Mitchill) Gill.
The southern range of this species needs determination.
89. *Menticirrus littoralis*, (Holbrook) Gill.*
No specimens observed.
90. *Micropogon undulatus*, (Linn.) Cuv. & Val.—*Croaker*.
Very common.
91. *Larimus fasciatus*, Holbrook.*
The southern range of this species needs determination.

GERRIDÆ.

92. *Eucinostomus argenteus*, B. & G.*

PIMELEPTERIDÆ.

93. *Pimelepterus Boscii*, Cuv. & Val.*

SPARIDÆ.

94. *Lagodon rhomboides*, (Linn.) Holbrook.—*Sailor's Choice*.
Very common.
95. *Archosargus probatocephalus*, (Walbaum) Gill.—*Sheephead*.
Very common.
96. *Stenotomus argyrops*, (Linn.) Gill.*
The southern limit of this species needs determination.
97. *Sparus chrysops*, Linn.,* (= *Sparus aculeatus*).
98. *Sargus Holbrookii*, Bean.*
Charleston.
99. *Pagrus argenteus*, Schneider.*
Charleston.

PRESTIPOMATIDÆ.

100. *Hæmulon arcuatum*, Cuv. & Val.—*Squirrel-fish*?
St. Augustine.
101. *Hæmulon formosum*, (Linn.) Cuvier.*—Probably the *Pig-fish* or *Grunt* of Indian River.
102. *Hæmulon chrysopterum*, (Linn.) Cuvier.—Probably the *Flannel-mouth Porgy* of the Mayport fishermen.
103. *Pristipoma fulvomaculatum*, (Mitchill) Günther.*
Proc. Nat. Mus. 79—8 **Sept. 19, 1879.**

104. *Anisotremus virginicus*, (Linn.) Gill.*
 105. *Rhomboplites aurorubens*, (Cuv. & Val.) Gill.*
 106. *Lutjanus Blackfordii*, Goode & Bean.—*Red Snapper*.
 St. John's Bar.

107. *Lutjanus caxis*, (Schneider) Poey.*—*Gray Snapper*.

The occurrence of this species on east coast of Florida is probable, yet not demonstrable.

108. *Ocyurus melanurus*, (Linn.) Goode.*
 Occurs at the Bahamas.

APHODODERIDÆ.

109. *Aphododerus Sayanus*, (Gilliams) DeKay.*

CENTRARCHIDÆ.

110. *Chænobryttus viridis*, (Cuv. & Val.) Jordan.—*War-mouth Perch*.
 St. John's and tributaries.

111. *Ambloplites rupestris*, (Raf.) Gill.*

112. *Lepiopomus mystacalis*, (Cope) Jordan.
 Attributed to Florida by Jordan.

113. *Lepiopomus apiatus*, Cope.—*Chinquapiu Perch*.
 Arlington and Jacksonville.

114. *Lepiopomus elongatus*, (Holbrook) Gill & Jordan.
 Not seen. Described from St. John's by Holbrook.

115. *Lepiopomus auritus*, (Linn.) Raf.—*Red-bellied Perch*.
 St. John's and tributaries.

116. *Lepiopomus incisor*, (Cuv. & Val.) Goode & Bean.—*Copperhead Bream*.
 St. John's and all fresh and brackish waters in Florida.

117. *Xystroplites gillii*, Jordan.*
 Described from Key West.

118. *Xystroplites longimanus*, Cope.
 Described from "Florida."

119. *Xenotis marginatus*, (Holbr.) Jordan.
 Not seen; described from St. John's.

120. *Eupomotis aureus*, (Walbaum) Gill & Jordan.—*Bream*.
 Common in all fresh waters of Florida.

121. *Eupomotis speciosus*, (Holbrook) Gill & Jordan.—*Bream*.
 Common in St. John's.

122. *Enneacanthus obesus*, (Girard) Gill.
 Not seen; identified by Jordan with *Bryttus fasciatus* Holbrook, described from the St. John's.

123. *Enneacanthus gloriosus*, (Holbr.) Jordan.
 Florida, *fidè* Jordan.

124. *Enneacanthus milnerianus*, Cope.
 Florida, *fidè* Cope.

125. *Pomoxys nigromaculatus*, (Les.) Girard.—*Speckled Perch*.
 St. John's and tributaries.

126. *Micropterus pallidus*, (Raf.) Gill & Jordan.—*Trout*.
Common in all fresh and brackish water.

SERRANIDÆ.

127. *Promicropterus maculatus*, (Holbrook) Gill.*
128. *Epinephelus morio*, (Cuv. & Val.) Gill.—*Brown Snapper*.
St. John's Bar, etc.; Indian River.
129. *Epinephelus nigritus*, (Holbrook) Gill.—*Black Grouper*; *Warsaw* (West Florida).
Indian River.
130. *Epinephelus niveatus*, Val.*
131. *Epinephelus Drummond-Hayi*, Goode & Bean.
132. *Trisotropis brunneus*, Poey.*
133. *Centropristis atrarius*, (Linn.) Barnev.—*Black-fish*.
Entire eastern coast.
134. *Promicrops guasa*, (Poey) Gill.
New Berlin, etc.
135. *Triloburus trifurcus*, (Linn.) Gill.*
Has this species been observed since the days of Linnæus and Garden?
136. *Diplectrum fasciculare*, (Cuv. & Val.) Holbrook.*
137. *Dules auriga*, Cuv. & Val.*

CENTROPOMIDÆ.

138. ? *Centropomus undecimalis*, Cuv. & Val.
Jupiter Inlet.

LABRACIDÆ.

139. *Roccus lineatus*, (Bloch) Gill.—*Rock-fish*.
St. John's River.

EPHIPPIIDÆ.

140. *Parephippus quadratus*, (Gmel.) Gill.*
141. *Parephippus faber*, (Cuv.) Gill.*

LOBOTIDÆ.

142. *Lobotes surinamensis*, (Bloch) Cuvier.—*Grouper*.
St. John's River, at Arlington.

POMATOMIDÆ.

143. *Pomatomus saltatrix*, (Linn.) Gill.—*Skip-jack*; *Saltwater-jack*.

ELACATIDÆ.

144. *Elacate canadus*, (Linn.) Gill.—*Sergeant-fish* (Indian River); *Cobia* (Brunswick, Ga.).
Indian River (S. C. Clarke). Brunswick, Ga.

CHILODIPTERIDÆ.

145. *Apogonichthys americanus*, Castelnau.*

PRIACANTHIDÆ.

146. *Priacanthus macrophthalmus*, Cuv.*

ECHENEIDIDÆ.

147. *Echeneis naucrateoides*, Zuiew.*
 148. *Echeneis naucrates*, Linn.
 Mouth of St. John's.
 149. *Rhombochirus osteochir*, (Cuv.) Gill.*
 150. *Remora brachyptera*, (Lowe).*
 151. *Remora jacobæa*, (Lowe) Gill.*

SPHYRÆNIDÆ.

152. *Sphyræna picuda*, Schn.*
 South Florida (Blackford).

MUGILIDÆ.

153. *Mugil albula*, Linn.—*Striped Mullet*.
 St. John's River and coast.
 154. *Mugil brasiliensis*, Agassiz.—*White Mullet*.

ATHERINIDÆ.

155. *Chirostoma peninsulæ*, Goode & Bean.*
 Lake Monroe.
 156. *Chirostoma vagrans*, Goode & Bean.*

BELONIDÆ.

157. *Belone longirostris*, (Mitchill) Gill.
 St. John's River.
 158. *Belone hians*, Cuv. & Val.*
 159. *Belone latimanus*, Poey.*
 160. *Belone notata*, Poey.*

SCOMBERESOCIDÆ.

161. *Exocætus*, sp.
 162. *Hemorhamphus unifasciatus*, Ranzani.*
 163. *Euleptorhamphus longirostris*, (Cuv. & Val.) Gill.*
 164. *Scombresox saurus*, (Walb.) Günther.*
 The southern limit of this species should be made out.

* For descriptions of these two species see paper following this, "Catalogue of a Collection of Fishes sent from Pensacola, Florida, and Vicinity, by Mr. Silas Stearns, with Descriptions of Six New Species."

ESOCIDÆ.

165. *Esox phaleratus*, Say. (Doubtful species.)

Described from a locality between Tokoi and St. Augustine.

166. *Esox reticulatus*, Le Sueur?—*Jack*.

167. *Esox Ravenelii*, Holbrook.*

CYPRINODONTIDÆ.

168. *Cyprinodon variegatus*, Lacépède.

St. Augustine; Lake Monroe.

169. *Jordanella floridae*, gen. et sp. nov., Goode & Bean.

Three specimens, of a remarkable type, allied to *Cyprinodon*, were collected in Lake Monroe, Florida, by Professor Baird (No. 18062), associated with *C. variegatus*. The species appears to be generically distinct from *Cyprinodon*, and the genus, for which the name *Jordanella* is proposed, in honor of Prof. D. S. Jordan, is characterized by its long dorsal and anal fins, the dorsal having 16 rays, preceded by a stout, thick spine, the anal I, 12 or 13, and by the position of the ventrals, which are situated in advance of the dorsal, and also by the advanced position of the anal, the posterior end of which is in advance of that of the dorsal. In other respects it agrees with *Cyprinodon*.

The species may be characterized as follows:

Diagnosis.—Height of body contained $2\frac{1}{4}$ to $2\frac{1}{2}$ times in total length without caudal ($2\frac{1}{2}$ to $2\frac{3}{4}$ times with caudal). Humeral scale behind gill-opening equal to or little larger than the others. Snout as in *Cyprinodon variegatus*. Diameter of eyes contained $3\frac{1}{2}$ times in length of head, and equal to $\frac{2}{3}$ of the width of the interorbital space. Origin of dorsal midway between end of snout and base of caudal, and above the ninth or tenth scale of the lateral line, and is behind the vertical from the root of the ventrals. Pectoral as long as the caudal, and $\frac{2}{3}$ as long as the head. The ventral reaches to the vent, its length equal to half that of the head. The origin of the anal is under the fifth dorsal ray, and its posterior ray is in advance of the last dorsal ray. Mandible about as long as the eye. The sexual characters cannot be made out from the series of specimens studied by us. Color olivaceous above, yellowish brown below, with traces of vertical bands of blackish brown, and with longitudinal lines upon each series of scales, resembling those in *Mollienesia*, but less conspicuous. A blackish blotch upon the side, under the origin of the dorsal, and about as large as the eye; a smaller one on the posterior limb of the dorsal.

D. I, 16; A. I, 12-13. L. lat. 25-26; L. transv. 12.

170. *Zygonectes chrysotus*, (Günther) Jordan.

St. Augustine; Arlington.

171. *Fundulus seminolis*, Girard.

Lake Monroe. (Described from Palatka.)

172. *Fundulus floridensis*, Le Sueur.

Described from "Charlotte Bay" (*sic*), Florida.

173. *Fundulus confluentus*, sp. nov., Goode & Bean.

A single specimen (No. 18065) obtained by Professor Baird in Lake Monroe.

Height of body a little less than four times in total length (without caudal); length of head two-sevenths. Head low, flat. Snout not produced, its length equal to that of the eye. Mandible equal to the eye. Width of interorbital space half that of the head. Diameter of eye contained four times in length of head, and twice in width of interorbital space. Origin of the dorsal midway between the tip of the caudal and the middle of the eye. First anal ray under second dorsal ray. Anal higher than long. Yellowish gray, with longitudinal lines down the center of each dorsal and lateral row of scales, and with fourteen or more distinct, irregular, vertical bands. In general appearance it resembles *Hydrargyra majalis*. The scales are much crowded, there being at least 45 transverse rows of scales. There appear to be only five branchiostegals, though this point is not certainly ascertained, the specimen being imperfect.

D. 10; A. 10; V. 6.

174. *Fundulus heteroclitus*, (Linn.) Gill.

And other species?

175. *Hydrargyra swampina*, Lac.*

Described from Florida.

176. *Hydrargyra majalis*, (Walb.) Val.

Mouth of St. John's.

177. *Gambusia arlingtonia*, sp. nov., Goode & Bean.

Numerous specimens (No. 21308) obtained in the Arlington River.

Height of body contained four times in total length, without caudal; the length of the head three and one-third. Snout broad, lower jaw projecting. Diameter of eye much greater than length of snout (double in young), one-third to two-fifths (in young) of that of the head, and two-thirds the width of the interorbital space. My specimens appear to be both females. In them the origin of the dorsal is midway between the tip of the tail and the posterior margin of the eye and opposite the sixth anal ray. The pectoral fins extend to the vertical from the insertion of the ventrals, which terminate at the vent and in front of the anal; length of base of anal equal to half its distance from the insertion of the caudal. Color uniform brownish olive. In the smaller specimens two or three series of blackish dots on the dorsal and anal fins.

D. 9; A. 11; V. 6. L. lat. 33; L. transv. 11.

178. *Gambusia Holbrooki*, (Agassiz) Girard.

Described from Palatka.

179. *Mollinesia latipinna*, Le Sueur.
 St. Augustine.
180. *Girardinus formosus*, Agassiz.
 Specimens obtained in Florida by Mr. T. Glover.

SYNODONTIDÆ.

181. *Trachinocephalus myops*, (Schneider) Gill.*
182. *Synodus fœtens*, (Linn.) Gill.*

ALBULIDÆ.

183. *Albula vulpes*, (Linn.) Goode.*

ELOPIDÆ

184. *Megalops cyprinoides*, (Bloch).—*Tarpum*; *Jew-fish*.
185. *Elops saurus*, Linn.*

CLUPEIDÆ.

186. *Brevoortia tyrannus*, (Latrobe) Goode.—*Fat-back*.
 St. John's and coast.
187. *Alosa sapidissima*, (Wilson) Linsley.—*White Shad*.
 St. John's and coast.
188. *Opisthonema thrissa*, (Linn.) Gill.*
189. *Pomolobus æstivalis*, (Mitch.) Goode & Bean.—*Herring*.
 St. John's.
190. *Pomolobus mediocris*, (Mitchill) Gill.—*Hickory Shad*.
 St. John's.
191. *Dorosoma Cepedianum*, (Lacépède) Gill.—*Stink Shad*.
 St. John's.

CYPRINIDÆ.

192. *Notemigonus americanus*, (Linn.) Jordan.—*Silver-fish*.
193. *Erimyzon Goodei*, Jordan, sp. nov.—“*Goode's Sucker*.”
194. Unknown species.
 Arlington.
195. Unknown species.
 Arlington.

SILURIDÆ.

196. *Ichthælorus punctatus*, (Raf.) Jordan.—*Channel Cat*; *Small-mouth Cat*.
 St. John's.
197. *Amiurus erebennus*, Jordan.—“*Goode's Cat-fish*.”
 St. John's and Arlington River.
198. *Amiurus nigricans*, (Les.) Gill.—*Mud Cat*.
 St. John's.
199. *Ælurichthys marinus*, (Mitchill) B. & G.—*Sea Cat-fish*; *Gaff-top-sail*.
 St. John's.
200. *Ariopsis felis*, (Linn.) Gill & Jordan.
 Coast.

ANGUILLIDÆ.

201. *Anguilla vulgaris*, Turton.

CONGRIDÆ.

202. *Conger oceanica*, (Mitch.) Gill.

ACIPENSERIDÆ.

203. *Acipenser*, sp.
Common in St. John's.

LEPIDOSTEIDÆ.

204. *Lepidosteus osseus*, (Linn.) Ag.—*Gar Pike*.
St. John's.
205. *Lepidosteus platystomus*, Raf.—*Alligator Gar*.
St. John's.

AMIIDÆ.

206. *Amia calva*, Linn.—*Mud-fish*.

CEPHALOPTERIDÆ.

207. *Ceratoptera birostris*, (Walbaum) Goode.—*Devil-fish*.
Coasts.

MYLIOBATIDÆ.

208. *Myliobatis Fremenvillei*, (Les.) Stover.
209. *Rhinoptera quadriloba*, (Le Sueur) Cuvier.—*Clam-cracker*.
St. John's.
210. *Ætobatis narinari*, M. & H.*

TRYGONIDÆ.

211. *Pteroplatea maclura*, Müll. & Henle.—*Sun-fish*.
Indian River.
212. *Trygon sabina*, Le Sueur.—*Stingaree*.
St. John's River.

RAIIDÆ.

213. *Raia Desmarestia*, Le Sueur, (= *R. eglanteria*?).
Described from Florida.

PRISTIDÆ.

214. *Pristis antiquorum*, (Linn.) Lath.

ALOPECHIDÆ.

215. *Alopias vulpes*, (Linn.) Bon.*

SPHYRNIDÆ.

216. *Sphyrna zygaena*, (Linn.) Müll. & Henle.
Indian River.
217. *Reniceps tiburo*, (Linn.) Gill.

GALEORHINIDÆ.

218. *Isogomphodon maculipinnis*, Poey.*
219. *Galeocerdo tigrinus*, Müll. & Henle.*
220. *Eulamia Milberti*, (Müll. & Henle) Gill.
Indian River.

GINGLYMOSTOMATIDÆ.

221. *Ginglymostoma cirratum*, (Gmel.) M. & H.

PETROMYZONTIDÆ.

222. *Petromyzon marinus*, Linn.—*Lamper-eel*.

BRANCHIOSTOMIDÆ.

223. *Branchiostoma lubricum*, Costa.

CATALOGUE OF A COLLECTION OF FISHES SENT FROM PENSACOLA, FLORIDA, AND VICINITY, BY MR. SILAS STEARNS, WITH DESCRIPTIONS OF SIX NEW SPECIES.

By G. BROWN GOODE and TARLETON H. BEAN.

The publication of the following list of fishes, collected by Mr. Stearns in the vicinity of Pensacola, Florida, is a preliminary step to the work of identifying and describing the large collections from the Gulf of Mexico now in the possession of the National Museum.

The fishes enumerated below were obtained in the winters of 1877-8 and 1878-9 by Mr. Stearns in the leisure hours of an active business life. Many of the larger species were forwarded to Washington in ice, and casts of them have been made in plaster. Mr. Stearns has usually sent interesting notes with each specimen, relating to the life-history of the species. We have refrained from publishing these, hoping that he will himself give them to science in a more complete form.

The common names published are those in use at Pensacola. The numbers in parentheses following the Museum catalogue numbers refer to Mr. Stearns's collecting record.

SMITHSONIAN INSTITUTION, *Washington, May 27, 1879.*

1. MALTHEIDÆ.

1. *Malthe cubifrons* Richardson.

A single specimen, No. 22,833, was sent by Mr. Stearns. The Museum has other specimens from West Florida—Nos. 21,467, 5,768, and 20,485. The radial formula in all is D. 4; A. 4; V. I, 5; P. 13. No. 21,467 is 12½ inches long, an enormous size for this fish.