

XXXIII.—LIST OF COLLECTIONS MADE BY THE FISHING VESSELS
OF GLOUCESTER AND OTHER NEW ENGLAND SEA-PORTS FOR
THE UNITED STATES FISH COMMISSION, FROM 1877 TO 1880.*

The fishes included in the following list were identified by Mr. G. Brown Goode and Dr. T. H. Bean. The Invertebrata were either originally identified or have subsequently been revised by Prof. A. E. Verrill, who is, therefore, to be considered responsible for the accuracy of the names. The nomenclature adopted for the Invertebrata is very nearly that of the Preliminary Check-list of the Marine Invertebrata of the Atlantic Coast, by A. E. Verrill, Edition of 1879.

1. Capt. DANIEL CARROLL. A specimen of the "sea hen," or skua gull (*Stercorarius skua*), from George's Bank, taken about July 9, 1878. This was the first specimen of the species recorded from the coast of the United States.

2. Capt. JOSEPH W. COLLINS, sch. Marion. A grenadier (*Macrurus Fabricii*), the second specimen known from the American coast, and a king of the herrings (*Chimæra plumbea*), the third specimen ever seen by naturalists; taken on a trawl-line in 275 fathoms of water, 30 miles SE. by E. from the eastern light of Sable Island, N. S.

3. PHILIP MERCHANT, sch. Marion. Two new species of bush-corals (*Acanella Normani* and *Keratoisis ornata*), from the same locality as the last; to these were clinging several shells and star fishes, new to science.

4. CHARLES C. CRESSY. A specimen of the oceanic dolphin (*Coryphæna punctulata*); locality not known.

5. Mr. MURPHY. A specimen of the gold-banded bush-coral (*Keratoisis ornata* Verrill); from the Grand Banks.

6. WILLIAM PARSONS, sch. Howard Steele. A specimen of the snipe-

* When the United States Fish Commission established its station at Gloucester, Mass., in 1878, from which to prosecute its researches into the history and condition of the fisheries, the opportunity of securing the co-operation of the fishermen of the port in collecting the deep-sea animals was gladly embraced. With scarcely an exception, the captains and crews of the vessels engaged in the Banks fisheries undertook to preserve all the miscellaneous objects brought up on their lines or trawls and place them in alcohol furnished by the Commission. Such was the extent and variety of their collections that it was found expedient to keep an agent at Gloucester permanently, at the office occupied at first by the Commission. Mr. R. E. Earl discharged this duty for a number of months after the departure of the Commission, in 1878; and when he left to serve as a census agent, Dr. T. H. Bean took his place during July, August, and September of 1879. Since then Mr. A. Howard Clark has been engaged in the same work.

The amount of rare and new material included in the collections here recorded is very great, and will be published in the various monographs to be prepared for the Commission.—(S. F. BAIRD.)

eel (*Nemichthys scolopacea* (?)), from the stomach of a codfish taken in May, 1875, on the southeastern part of George's Bank, in 45 fathoms. This fish had hitherto been known only from the Island of Madeira and the South Atlantic.

7. Capt. ROBERT H. HURLBURT. Spawn of herring (?), from George's Bank, 35 fathoms, February, 1878.

8. THOMAS BURNS. Specimens of the chimæra (*Chimæra plumbea*) and of the lancet-mouth (*Alepidosaurus ferox*), from George's Bank.

9. Capt. GEORGE H. MARTIN. Five swords of the sword-fish (*Xiphias gladius*), from the South Channel.

10. JOHN PARSONS. Young pipe-fish (*Syngnathus fuscus*), from the stomach of a "daddy sculpin," Gloucester.

11. Capt. JOHN GOWREVILLE, sch. Rebecca Bartlett. Tail of sword-fish (*Xiphias gladius*), from George's Bank.

12. ANTOINE SILVA-TERRA, sch. Rebecca Bartlett. Skins of undetermined species of dogfish.

13. Capt. A. F. RICH, Boston. *Remora* or sucker fish (*Remoropsis brachyptera*), from a sword-fish taken in the South Channel.

14. HIGGINS & GIFFORD, Gloucester. Model of a Gloucester fish-wharf and fish-houses, exhibited by the city of Gloucester at the Philadelphia Exposition of 1876.

15. Capt. R. H. HURLBURT. Shells of the great scollop (*Pecten tenuicostatus*) and parasites of codfish, from George's Bank.

16. A. BARTLETT, New Bedford, Mass. Specimen of the smooth puffer or rabbit-fish (*Tetrodon levigatus*), from Buzzard's Bay.

17. Capt. GEORGE H. MARTIN, sch. Northern Eagle. Specimen of pipe-fish (*Syngnathus fuscus*), from Provincetown, Mass.

18. W. A. KING. Specimen of great bush-coral (*Primnoa reseda*), taken by the sch. Otis D. Dana, on George's Bank, in 100 fathoms.

19. MICHAEL J. MURPHY, sch. Magic. Specimens of tree coral (*Paragorgia arborea*), from the Grand Banks, and jointed bush-coral (*Acanella Normani*), from Banquereau.

20. Capt. JEROME McDONALD, sch. G. P. Whitman. A rock covered with bryozoans, from Banquereau.

21. ROBERT DOUGLASS. Specimen of phantom eel (*Leptocephalus*, sp.), from the mouth of Gloucester Harbor.

22. WILLIAM CARRITT, sch. Mary E. A species of shell-fish new to the American coast, from Flemish Cap, 75 fathoms.

23. ALFRED POLSEN, sch. Mary E. Hat-sponge, from Flemish Cap, 75 fathoms.

24. WILLIAM KEARNEY, sch. Marathon. Finger-sponge (*Chalina*), from George's Bank.

25. NICHOLAS CAVENER, sch. Marathon. Finger-sponge (*Chalina*) and dogfish skins, from George's Bank.

26. Sch. Northern Star. Three living hagdons (*Puffinus anglorum*), from George's Bank.

27. Capt. JOSEPH GOSLIN, sch. Shooting Star. Sponge (*Chalina*), from 25 miles SE. of Sankaty Head, Nantucket, 18 fathoms.
28. Sch. Charger. Specimen of the great, spiny spider-crab (*Lithodes maia*), from Marblehead Bank.
29. Sch. Phœnix. Skin of spear-fish (*Tetrapturus albidus*), from South Channel.
30. Sch. Lizzie K. Clark. Shells of *Buccinum cyaneum*, from 30 miles south of Sable Island, in 200 fathoms.
31. Capt. CHARLES ANDERSON, sch. Alice G. Wonsou. Two specimens of great bush-coral (*Primnoa reseda*), from the channel between George's and Le Have Banks, about 200 fathoms.
32. Capt. STEPHEN J. MARTIN. Living specimen of hagdon (*Puffinus anglorum*), from George's Bank.
33. J. D. LLOYD, Gloucester. Stones bored by *Saxicava arctica*, some also containing fossils, brought up on fishermen's lines, George's Bank, 70 to 200 fathoms (exhibited at the Centennial); also two cunner-traps, purchased.
34. Capt. WM. BLACKBURN, sch. Charles Carroll. Part of the skull of a whale covered with sponges and bryozoans, from off the western part of George's Bank, 80 fathoms.
35. Capt. JOHN ROWE, Gloucester. Specimens of great bush-coral (*Primnoa reseda*), from Banquereau, 200 fathoms.
36. DANIEL DRISCOLL, sch. Polar Wave. Great bush-coral (*Primnoa reseda*), from eastern part of Banquereau, 150 fathoms.
37. DUNCAN McDONALD, sch. Polar Wave. A specimen of great bush-coral (*Primnoa reseda*), from the same locality; and specimens of turbot (*Platysomatichthys hippoglossoides*), from eastern Banquereau, 300 fathoms.
38. SLADE GORTON & Co. Salted sword-fish and codfish turned red.
39. Capt. R. H. HURLBURT. A specimen of Günther's midge (*Hypsiptera argentea*), from off Cape May; new to the American coast.
40. FITZ J. BABSON, Jr. Lobster (*Homarus americanus*) with deformed claw.
41. A. VOSS. Devil's claw or box-hook, used in boxing fresh halibut at Gloucester.
42. Miss CARRIE A. RUST, South Harpswell, Me. Barnacles (*Lepas fascicularis*) from Harpswell, Me.
43. Capt. JAMES TARR. French hooks taken from codfish caught on shoal ground off the salvages, in 1856, and Jeffrey's Ledge, 1876.
44. JOHN DOUGLASS, Gloucester. Specimen of ribbon-snake (*Eutænia saurita*).
45. JOHN I. WILSON, sch. Otis D. Dana. Specimens of white-necked gull-chaser, or Pomarine jaeger (*Stercorarius pomatorhinus*), from southeastern part of George's Bank, lat. 41° 3'; and barnacles from a turtle caught at sea, by sch. Falcon.
46. SAMUEL HASKELL, East Gloucester. Fossiliferous boulder from

George's Bank, brought in, January, 1878, by sch. Conductor, Capt. Curtis; also bryozoans and fossiliferous bowlder from the Grand Banks, brought in by sch. Etta E. Tanner, Captain Olsen.

47. E. P. SAYWARD, Jr., East Gloucester. Fossiliferous bowlder from George's Bank, showing burrows of *Saxicava arctica*.

48. Capt. NICHOLAS MURPHY, sch. Franklin S. Schenck. Pebbles covered with bryozoans, from Whaleman's Shoal, off Nantucket, 14 fathoms.

49. JOSEPH NOLAN, sch. Bessie W. Somes. Specimens of great bush-coral (*Primnoa reseda*), from Banquereau, 180 fathoms.

50. JAMES MEEK, sch. Alice G. Wonson. Specimen of tree-coral (*Paragorgia arborea*), from gully between Brown's and George's Banks, 220 fathoms.

51. ARNOLD CARLSEN, sch. Alice G. Wonson. Specimen of jointed bush-coral (*Acanella Normani*), from same locality as 50.

52. Capt. BENJAMIN BLATCHFORD, Gloucester. Specimen of great bush-coral (*Primnoa reseda*), from Banquereau, 215 fathoms.

53. Capt. HENRY WEBB, Milk Island, Rockport. Specimen of lobster-pot, bait-hook, 50 specimens of pollock (*Pollachius carbonarius*), 4 of whiting (*Merluccius bilinearis*), and 2 of Greenland sculpin (*Cottus grandicus*), from Milk Island weir.

54. G. A. BOARDMAN, Calais, Me. Specimen of spotted wry-mouth (*Cryptacanthodes maculatus*), from Calais.

55. JAMES MANSFIELD & SONS, Gloucester. Bowlder containing fossil shells, from George's Bank.

56. H. G. SANFORD, Gloucester. Bowlder similar to last.

57. EVERETT P. WONSON, East Gloucester. Specimens of *Buccinum*, *Fusus*, Iceland scollop (*Pecten Islandicus*), and nullipores, from Newfoundland; a bunch of barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*), from the western part of George's Bank, 50 fathoms (sch. John F. Wonson), and shells from Middle Bank.

58. Capt. JEROME McDONALD, sch. G. P. Whitman. Two specimens of the lancet-mouth (*Alepidosaurus ferox*), from lat. $42^{\circ} 13' N.$, long. $63^{\circ} 30' W.$, 300 fathoms (through Capt. Benjamin F. Blatchford).

59. GEORGE P. WHITMAN, Rockport. Mounted specimens of Richardson's jæger-gull (*Stercorarius parasiticus*).

60. Capt. WILLIAM McDONALD, sch. N. H. Phillips. Fragment of tree coral (*Paragorgia arborea*), from Seal Island Bank, 200 fathoms, (through Captain Blatchford).

61. Crew of sch. Alice G. Wonson. Specimens of tree-coral (*Paragorgia arborea*); from the gully between George's and Le Have Banks; lat. $42^{\circ} 10' N.$, long. $65^{\circ} 38' W.$, depth 220 fathoms.

62. Capt. CHARLES A. HOMANS, Gloucester. Specimens of sipo wood, used by the Carib Indians of South America for intoxicating and catching fish; and specimens of codfish from the West Indian market.

63. Capt. GEORGE H. MARTIN, sch. Northern Eagle. Sword-fish (*Xiphias gladius*), taken off Portland (purchased).

64. JOHN H. JELLOW, sch. George P. Whitman. Four specimens of jointed bush-coral (*Acanella Normani*), from lat. 42° 43' N., long. 63° 30' W., 300 fathoms, (through Captain Blatchford).

65. JOHN A. LUNDBERG, Gloucester. Sponge (*Ohalina oculata*), George's Bank.

66. THOMAS TRESILIAN, Gloucester. Great bush-coral (*Primnoa reseda*), George's Bank.

67. JOHN L. SMITH, Gloucester. Egg-cases of an undetermined species of *Buccinum*, taken by the crew of the sch. Conductor, Grand Banks, and a great bush-coral (*Primnoa reseda*), from George's Bank.

68. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. A star-fish (*Crossaster papposus*), sponge (*Chalina*), stemmed sea-peach (*Boltenia Bolteni*), shells, spider crabs, cod parasite, sea cucumber (*Thyonidium*) from a cod's stomach, bryozoa, &c. ; from eastern part of George's Bank, 50 fathoms.

69. HENRY F. MADDEN, Gloucester. Axis of great bush-coral (*Primnoa reseda*), from off Sable Island.

70. PETER MASON, Gloucester. Shells and hydroids taken by crew of sch. Hattie S. Clark, on Grand Banks.

71. WILLIAM M. GAFFNEY, Gloucester. Boulder containing fossils, from George's Bank.

72. SIDNEY FRIEND, Gloucester. Boulder containing fossil shells, and specimens of rock perforated by *Saxicava arctica*; from George's Bank.

73. Crew of sch. Wachusett. Iceland scollop shells (*Pecten Islandicus*), hydroids, and barnacles, from Grand Banks.

74. Crew of sch. Howard Holbrook. Scollop shells from Grand Banks.

75. GEORGE MCCOLLUM, sch. Fitz J. Babson. King of the herrings (*Chimæra plumbea*), from Le Have Bank, 300 fathoms.

76. JOHN ATKINSON, Gloucester. Claw of lobster (*Homarus Americanus*), showing supernumerary claw partially developed.

77. GEORGE F. ROWE, East Gloucester. An interesting eel-pout (*Zoarces*), from off Eastern Point, Cape Ann, 15 fathoms.

78. HENRY E. BURKE, sch. Hattie S. Clark. Bryozoa and egg-cases of *Buccinum*, from Grand Banks, 35 fathoms.

79. Capt. GEORGE W. DIXON, sch. William T. Smith. Gulf-weed incrustated with bryozoa and egg-cases of *Buccinum*, lat. 44° 57' N., long. 51° 55' W., 40 fathoms, (through Captain Blatchford).

80. EUGENE F. DIXON, sch. William T. Smith. Hydroids and bryozoa, from 15 miles east-southeast of Virgin Rocks, (through Captain Blatchford).

81. GEORGE W. SCOTT, sch. City of Gloucester. Sample of black dogfish oil.

82. Capt. J. W. COLLINS, sch. Marion. Two large species of *Pen-*

natula, an undetermined species of sea-anemone, a star-fish (*Hippasteria*), several ophiurans, a number of small crustacea (*Caprella*, *Dulichia*, &c.), and halibut parasites; also a number of interesting fishes, among which were eleven specimens of the grenadier (*Macrurus Fabricii*), two chimæras (*Chimæra plumbea*), two specimens of a new species of hake (*Haloporphyrus viola*) blue in color, and a small dogfish, new to America.

83. PHILIP MERCHANT and THOMAS GINNEVAN, sch. Marion. Two large spiny spider-crabs (*Lithodes maia*).

84. GEORGE K. ALLEN, sch. Marion. Fine specimen of the gold-banded bush-coral (*Keratoisis ornata*).

85. PHILIP MERCHANT, sch. Marion. Five specimens of the jointed bush-coral (*Acanella Normani*).

86. WILLIAM BROWN, sch. Marion. Three specimens of a black dogfish, new to the American coast.

87. JOHN LARKIN, Gloucester. A young hagdon, brought in by sch. George W. Stetson.

88. Capt. WILLIAM DEMSEY, sch. Everett Steele. Parasites of codfish (*Æga psora*), from George's Bank.

89. Crew of sch. Alice G. Wanson. Two specimens of the tree-coral (*Paragorgia arborea*), two of the great bush-coral (*Primnoa reseda*), a specimen of Goode's cup-coral (*Flabellum Goodei*), two specimens of a star-fish, new to science (*Asteropsis grandis*), basket star-fish (*Astrophyton*), small scallop shells of a rare species (*Pecten vitreus*), and a lancet-mouth (*Alepidosaurus ferox*).

90. F. S. ANDREWS, East Gloucester. A specimen of the spiny spider-crab (*Lithodes maia*), brought in by the sch. Clara B. Sweet, from Middle Bank, 40 fathoms.

91. MILES McDONALD, Gloucester. Sea-mouse (*Aphrodite aculeata*), from Middle Bank.

92. Captain WILLIAM N. WELLS, sch. E. B. Phillips. A lot of shells from Grand Bank, lat. 44° 35' N., long. 50° 42' W. (through Captain Blatchford).

93. JAMES G. TARR, Gloucester. Sample of oil from an unknown fish.

94. Capt. G. H. MARTIN, sch. Northern Eagle. Specimens of small fish taken at the surface of the sea; and also goose-barnacles (*Lepas fascicularis*), isopod crustaceans (*Idotea*), sword-fish parasite (*Iernaxa*) with hydroids attached, and a small lobster (*Homarus Americanus*); taken between Boon Island and Matinicus Rock, off the coast of Maine.

95. Captain BAKER, sch. Peter D. Smith. Parasites of the cod (*Æga psora*), young dog-fish (*Squalus americanus*), and a lump-fish (*Cyclopterus lumpus*).

96. THOMAS BURNS, Gloucester. Large specimen of star-fish (*Hippasteria phrygiana*), taken 6 miles southeast of Eastern Point Light, Cape Ann, 36 fathoms.

97. Captain BRIGGS GILPATRICK, sch. City of Gloucester. Sample of oil from a fish taken on Grand Banks, 300 fathoms.

98. EVERETT P. WONSON, East Gloucester. Hydroids, bryozoa, and barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*); brought in by the sch. Blue Jay, from South Channel, western part of George's Bank.

99. GEORGE MERCHANT, Jr., sch. Hattie B. West. A very small specimen of a goose-fish (*Lophius piscatorius*), taken off Cape Elizabeth, Maine, in a mackerel seine.

100. Mr. MERCHANT, Rockport. A large specimen of sea-corn (eggs of *Buccinum*), from off Halibut Point, Cape Ann, 45 fathoms.

101. Capt. JAMES D. MORRISEY, sch. Alice M. Williams. Two specimens of jointed bush-coral (*Acanella Normani*), from the Western Bank, 150 fathoms.

102. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. Two hagdons (*Puffinus anglorum*), parasites of codfish (*Æga psora*), branched sponges (*Chalina* and *Isodictya*), small spider-crabs (*Hyas coarctatus*), and stones covered with bryozoa; from 43 miles east-northeast of George's Shoals, 35 fathoms.

103. SIMON LE BLANC, sch. Rebecca Bartlett. A star-fish (*Crossaster papposus*), from northern edge of George's Bank, 35 fathoms.

104. EDWARD HARVEY, sch. Rebecca Bartlett. Isopod crustaceans (*Idotea robusta*), from George's Bank.

105. TIMOTHY S. ROWE, Gloucester. Specimen of gulf-weed, from the Gulf Stream.

106. Capt. WILLIAM McDONALD, sch. N. H. Phillips. Five specimens of jointed bush-coral (*Acanella Normani*), with a new species of star-fish attached; southeast part of Le Have Bank, lat. 42° 40' N., long. 63° 6' W., 200 fathoms.

107. MICHAEL MCGUINN, sch. N. H. Phillips. Specimens of *Aporrhais* and eggs of sharks, from lat. 42° 44' N., long. 63° 15' W., 300 fathoms, (through Captain Blatchford).

108. SMITH & OAKES, Gloucester. Boulder containing fossils, and burrowed by *Saxicava*, from George's Bank.

109. PETTINGELL & CUNNINGHAM, Gloucester. A large boulder, similar to the last.

110. Mrs. MARY E. DAVIS, Gloucester. A boulder filled with fossil shells, brought from Banquereau by Henry Crowell.

111. BENJAMIN S. BRAZIER, East Gloucester. Egg-cases of *Sycotypus canaliculatus*, from Monomoy Beach, and pebbles partly covered with bryozoa, from Stellwagen's Bank.

112. MARTIN BURBANK, Gloucester. A young lobster (*Homarus Americanus*), from Monhegan Island.

113. JAMES BATES, East Gloucester. Rough swell-fish (*Tetrodon turgidus*), picked up on the beach at Rocky Neck, Cape Ann.

114. Capt. WILLIAM THOMPSON, sch. Magic. Stone covered with bryozoa, hydroids, and sponges; young horse-mackerel, and jaw of striped porpoise.

115. CHARLES COLBY, Gloucester. Star-fish (*Hippasteria phrygiana*) and two pipe-fish (*Syngnathus*, sp.), taken 8 miles off Eastern Point, Cape Ann.

116. Crew of sch. Carl Schurz. Two specimens of jointed bush-coral (*Acanella Normani*) and a *Chimæra plumbea*, ♀, from 30 miles south of Sable Island, 300 fathoms.

117. A young green turtle (*Chelonia mydas*), from off Sable Island.

118. BENJAMIN CLARK, sch. Water Spirit. Vase-shaped sponge (*Phakellia*), from eastern part of Brown's Bank, 300 fathoms.

119. THOMAS GOODWIN, sch. Bellerophon. Fragment of limestone containing fossil shells, from Grand Banks, lat. 44° 30' N., long. 50° 35' W., 85 fathoms.

120. Crew of sch. Grace C. Hadley. Stone with barnacles and bryozoa attached, from George's Bank.

121. Sch. Carl Schurz. Sword of sword-fish, caught on trawl-lines.

122. EDWARD R. CHILDS, sch. Mary F. Chisholm. Young green turtle (*Chelonia mydas*), found floating on southeast part of Le Have Bank.

123. MORRIS WELSH, sch. Triton. A specimen of finger-sponge (*Chalina*, sp.), from George's Bank, 50 fathoms.

124. Capt. B. A. WILLIAMS, sch. Centennial. Scollop shell with barnacles, bryozoans, and sea-corn upon it; and pebbles with branching bryozoans attached.

125. JOHN H. JELLOW, sch. G. P. Whitman. Three specimens of great bush-coral (*Primnoa reseda*), from Le Have Bank, 250 fathoms; six specimens of sea-snails (*Lunatia heros*), and three valves of the great scollop (*Pecten tenuicostatus*), from George's Bank, 80 fathoms.

126. WILLIAM COLLINS. Jaws of a shark, caught off Monhegan Island.

127. Capt. JOHN Q. GETCHELL, Gloucester. Fish parasites, barnacles, shrimps and skates' jaws, from George's Bank.

128. EDWARD W. HODGKINS, Gloucester. A specimen of the great spiny spider-crab (*Lithodes maia*), caught in Harbor Cove, Gloucester, 1872, and the rock crab (*Cancer irroratus*), of large size, from Annisquam River, Cape Ann.

129. Capt. J. W. COLLINS and crew, sch. Marion. Six black dogfish (*Centroscyllium Fabricii*); wolf-fish (*Anarrhichas latifrons*); 7 rudder-fish (*Palinurichthys perciformis*); one chimæra (*Chimæra plumbea*); a grenadier (*Maerurus Fabricii*); a pug-nosed eel, new to science; one *Argentina* new to the coast, and two blue hake (*Haloporphyrus viola*). Captain Collins also brought in Lamarck's basket-fish (*Astrophyton Lamarckii*), Finmark sea-feather (*Balticina Finmarchica*), sea-cauliflower (*Alcyonium multiformum*), and a large and valuable collection of other invertebrates, from Banquereau, 200 to 300 fathoms; and about forty specimens of the rarer water birds.

130. Capt. JOHN MCINNIS, sch. M. H. Perkins. Black dogfish (*Centroscymnus cælolepis*), Sable Island Bank, 200 fathoms.

131. MARTIN PETERSON and DENNIS THELUENG, sch. William Thompson. A large lancet-mouth (*Alepidosaurus ferox*), grenadier (*Macrurus Fabricii*), black dogfish (*Centroscymnus coelolepis*), and two specimens of coral; from 39 miles south-southwest of northwest light of Sable Island, lat. $43^{\circ} 9' N.$, long. $60^{\circ} 13' W.$, depth 160 fathoms.
132. Capt. GEORGE T. CLINTON, sch. Henry Wilson. Barnacles, bryozoa, egg-cases of gasteropods and gills of cod; from northeast part of Grand Banks, 45 fathoms.
133. Capt. THOMAS GOODWIN, sch. Elisha Crowell. A new species of spiny bush-coral (*Acanthogorgia armata* V.), from Western Banks, 300 fathoms.
134. Capt. BRIGGS GILPATRICK, sch. City of Gloucester. A sucker-fish (*Remoropsis brachyptera*), taken from the gills of a sword-fish.
135. JOHN S. JAMESON, sch. Henry Wilson. Specimens of branching bryozoa, gasteropod egg-cases, and Iceland scollops (*Pecten Islandicus*); from the northeast part of Grand Banks, 45 fathoms.
136. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wonson. Black dog-fish (*Centroscyllium Fabricii*), lamprey (*Petromyzon*, sp.), parasites of halibut (*Aega psora*), gorgonian or spiny bush-coral (*Acanthogorgia armata*), and several species of star-fishes.
137. FRANK SWEENEY, Gloucester. Parasites from the gills of a cod-fish, from off Eastern Point, Cape Ann.
138. J. F. DUNCAN, sch. Mary Low. A very large sponge, from north-western part of George's Bank, 60 fathoms.
139. JOHN CAPRON, sch. Solomon Poole. A large collection of branching-stony bryozoa, from the Grand Banks.
140. WILLIAM H. RADCLIFFE, yacht Uncle Sam. Stemmed sea-peach (*Boltenia Bolteni*), taken about 4 miles off Eastern Point, Cape Ann.
141. GEORGE W. SCOTT, sch. Lizzie. Two species of black dogfish (*Centroscyllium Fabricii* and *Centroscymnus coelolepis*), a chimæra (*Chimæra plumbea*), and rocks covered with hydroids, bryozoans, and barnacles; from lat. $43^{\circ} 28' N.$, long. $60^{\circ} 10' W.$, 300 fathoms.
142. Capt. JAMES WELCH, sch. Martha and Susan. A specimen of branching sponge (*Chalina* ?), from the eastern part of George's Bank, 50 fathoms, (through Captain Blatchford).
143. WILLIAM M. GAFFNEY, Gloucester. A rock covered with barnacles and bryozoans, from George's Bank.
144. Capt. JOSEPH SHEMELIN, sch. William H. Raymond. Specimens of branching sponge (*Chalina*), barnacles, hydroids, and bryozoans; from the western part of George's Bank, 55 fathoms.
145. Capt. ROBERT HURLBURT, Gloucester. Egg-cases of the periwinkle, from Cape Henlopen.
146. JOHN CONLEY, Gloucester. A specimen of mackerel shark (*Lamna*, sp.), taken on a trawl seven miles south-southeast of Eastern Point, Cape Ann.

147. WILLIAM A. BANSETT, New Bedford, Mass. A pilot-fish (*Nau-
crates ductor*).

148. Capt. JOHN GOURVILLE and crew, sch. Rebecca Bartlett. Wolf-
fish (*Anarrhichas lupus*?), sculpin (*Triglops*), young Norway haddock (*Se-
bastes marinus*), and also stones covered with barnacles, sponges, and
scollop shells; from the northeast part of George's Bank, 65 fathoms.

149. L. D. STORY, Magnolia. A specimen of *Argyreiosus vomer*, taken
at Magnolia, Cape Ann.

150. JOHN ATKINSON, Gloucester. Skull of a codfish (*Gadus morrhua*),
found on the beach.

151. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Two specimens
of hagdons, jaws of barndoor-skate, sea-robin (*Prionotus*), and shells
(*Cyprina*), covered with stemmed sea-peach (*Boltenia Bolteni*); from
George's Bank and off Cape Cod, 46 fathoms.

152. Capt. ANDREW CURTIS, ship Ida Lilly. Pens of squid from Cadiz
Bay, Spain, and a larval lobster (?) taken from the stomach of a bonito.

153. JOHN KIPPIN, sch. Solomon Poole. Branching sponge (*Ohalina*),
and stones bored by *Saxicava arctica*, from Grand Banks, lat. 45° N., long.
50° W., 34 fathoms.

154. Capt. JAMES D. MORRISEY, sch. Alice M. Williams. Chimæra
(*Chimæra plumbea*), black dogfish (*Centroscymnus cœlolepis*), two spe-
cies of eel-like fishes (*Simenchelys parasiticus* and *Synaphobranchus pin-
natus*), and several specimens of jointed bush-coral (*Acanella Normani*),
with small scollop shells attached; from lat. 43° 18' N., long. 60° 45' W.,
150 fathoms, (through Capt. B. F. Blatchford). Captain Morrisey also
captured a squid eight feet long, but it was lost during rough weather.

155. Capt. ALFRED SPURR and crew, sch. John F. Wonsen. Mussels,
hydroids, bryozoa, barnacles, and scollops, from the eastern part of
George's Bank, 50 fathoms.

156. JOHN SUTHERLAND, New York City. A land-locked salmon
(*Salmo salar* var. *sebago*), caught in the Merrimac River.

157. Capt. GEORGE DOUGLASS, sch. Constitution. Lump-fish (*Cy-
clopterus lumpus*), dollar-fish (*Poronotus triacanthus*), rock-eel (*Muræn-
oides*), moon-fish (*Argyreiosus vomer*), cunner (*Tautogolabrus adspersus*),
pipe-fish (*Syngnathus Peckianus*), and isopod crustacean (*Idotea robusta*);
taken on the surface, in Casco Bay, Maine.

158. HENRY WHITING, sch. Webster Sanborn. A large collection of
Iceland scollops (*Pecten Islandicus*) with barnacles, and a brachiopod
(*Rhynchonella psittacea*); from Grand Banks, lat. 44° 15' N., 45 fathoms.

159. FRED. HILLIER, sch. Alice M. Williams. Two species of eel-
like fishes (*Simenchelys parasiticus* and *Synaphobranchus pinnatus*), and a
jointed bush-coral (*Acanella Normani*) with basket-fish (*Astrophyton*) at-
tached; lat. 43° 18' N., long. 60° 45' W., 150 fathoms, (through Capt. B.
F. Blatchford).

160. Capt. JEROME McDONALD, sch. G. P. Whitman. Specimens of
barnacles and a chimæra (*Chimæra plumbea*); from Le Have Bank, lat.
42° 45' N., 63° 06' W., 300 fathoms, (through Capt. B. F. Blatchford).

161. GEORGE W. HOY, sch. Mary F. Chisholm. A species of file-fish (*Balistes capriscus*), taken from the stomach of a halibut, and the axis of a sea-pen, from Le Have Bank, 200 fathoms.

162. Capt. GEO. A. JOHNSON, sch. A. H. Johnson. A large collection of rare fishes, including the grenadier (*Macrurus Fabricii*), chimæra (*Chimæra plumbea*), two species of black dogfish (*Centroscyllium* and *Centroscymnus*), wolf-fish (*Anarrhichas lupus* ?), sucker fish (*Remoropsis brachyptera*), lamprey (*Petromyzon*, sp.), &c.; and also jaws of great bank-squid (*Sthenoteuthis megaptera*), eggs of the halibut, a rare sponge, sea-pens, shells, and a number of specimens of sea-anemones; from Sable Island Bank, lat. 43° 22' N., long. 60° 40' W., 280 to 300 fathoms.

163. Capt. ANDREW CURTIS, ship Ida Lilly. Specimens of cuttle-bone from the cuttle-fish (*Sepia*, sp. ?); bay of Cadiz, Spain.

164. Capt. DANIEL MCKINNON, sch. Mary F. Chisholm. Specimens of jointed bush-coral (*Acanella Normani*) and barnacles; Le Have Bank, lat. 42° 48' N., long. 63° 05' W., 160 fathoms.

165. Capt. WM. THOMPSON, sch. Magic. Sea-anemones, basket-fish, great northern sea-feather (*Pennatula borealis*), fragment of tree-coral (*Paragorgia arborea*), sea-urchins, rock bored by *Saxicava arctica*, and eyes of the grenadier; from Banquereau, 200 fathoms.

166. DAVID ROACH, sch. Lizzie K. Clark. A pipe made from the axis of the tree-coral (*Paragorgia arborea*).

167. Capt. MATTHEW McDONALD, sch. Lizzie K. Clark. Well-preserved specimens of chimæra (*Chimæra plumbea*) and an eel-like fish (*Synphobranchus pinnatus*); and, also, the axis of a gold-banded bush-coral (*Keratoisis ornata*), spiny bush-corals (*Acanthogorgia armata*) and jointed bush-coral (*Acanella Normani*), large tube-worm (*Protula media*), shells, sword-fish parasites, great club-sponge (*Cladorhiza grandis*), basket-fish, and egg of shark; from Western Bank, lat. 43° 32' N., long. 59° 45' W., 250 fathoms.

168. Capt. THOMAS JEWETT, sch. City of Gloucester. A number of specimens of a rare sponge, base of a gorgonian coral, axis of a gold-banded bush-coral (*Keratoisis ornata*), great northern sea-feather (*Pennatula borealis*), spiny sea-feather (*Pennatula aculeata*), shells, halibut parasites (*Æga psora*), and eel-like fish (*Synphobranchus pinnatus*); from Le Have Bank, 150 fathoms.

169. Capt. THOS. GOODWIN, sch. Elisha Crowell. Eyes of fishes, base of gorgonian coral, and rare sponge, from Sable Island Bank, 200 fathoms.

170. Capt. LUKE DEVOE, sch. Epes Tarr. Branching bryozoans and gasteropod egg-cases from Grand Banks, 100 (?) fathoms.

171. Capt. CHARLES H. NUTE, sch. Edward E. Webster. Two species of branching bryozoa from the Grand Banks.

172. Capt. FITZ. J. BABSON, Gloucester. Two specimens of surf duck (*Ædemia*), taken in Squam River, Cape Ann.

173. JOHN ATKINSON, Gloucester. Rock showing concentric layers, picked up on the beach near Western Avenue, Gloucester.

174. Capt. N. MCPHEE, sch. Carl Schurz. Fine specimen of the gold-banded bush-coral (*Keratoisis ornata*), great northern sea-feather (*Pennatula borealis*), a pug-nosed eel (*Simenchelys parasiticus*), eel-like fish (*Synphobranchus*), halibut parasites (*Æga psora*), free-swimming ascidian (*Salpa*), and a warty bush-coral (*Paramuricea borealis*); from Sable Island Bank, lat. 43° 25' N., long. 59° 50' W., 300 fathoms; also a flying fish (*Exocoetus*, sp.); from lat. 41° 40' N., long. 62° 28' W.

175. ANDREW COLSON, sch. Alice G. Wonson. A grenadier (*Macrurus Fabricii*); from near George's Bank.

176. Capt. CHAS. ANDERSON and crew, sch. Alice G. Wonson. A specimen of tree-coral (*Paragorgia arborea*) and three specimens of a great bush-coral (*Primnoa reseda*); from near George's Bank.

177. GEORGE ALLEN, sch. Schuyler Colfax. Three species of starfish (*Hippasteria phrygiana*, *Solaster endeca*, and *Crossaster papposus*); black rudder-fish (*Palinurichthys peroiformis*); bunches of spawn of an unknown fish, large pebbles taken from the stomach of a cod, a vase-shaped sponge, yellow cake-sponge, eggs of *Buccinum*, small sea-cucumbers (*Thyonidium elongatum* ?), tube-dwelling sea-anemones (*Cerianthus borealis*), and a large number of shells of different species; from between Le Have and Western Bank, 75 fathoms.

178. Capt. DANIEL O'BRIEN, sch. Guy Cunningham. A species of horse-mackerel (*Orcynus alalonga*), taken on a trawl in 250 fathoms, on Grand Banks. (Through Mr. John S. Bickford.)

179. GEO. W. SCOTT, sch. Lizzie. Four great northern sea-feathers (*Pennatula borealis*); two pug-nosed eels; long-nosed eel (*Synphobranchus*); dollar-fish (*Poronotus*), taken from the stomach of a cod; sea-spiders; sea-corn (eggs of *Buccinum*); halibut parasites; sponges; base of gorgonian coral; spawn of undetermined fish; sample of oil from the *Chimera*; and many specimens of jointed bush-coral (*Acanella Normani*), with pecten shells (*Pecten vitreus*) attached; from Banquereau, 300 fathoms. Acknowledgments are also due Mr. Scott for notes taken daily during a trip to the banks for halibut.

180. DANIEL McEACHERN, sch. Guy Cunningham. A specimen of Goode's cup-coral (*Flabellum Goodei*), taken on Grand Banks, in 200 fathoms.

181. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. Many specimens of a rare species of sea cucumber (*Thyonidium elongatum* ?), taken from the stomach of a cod; long-rayed sea-rose (*Bolocera Tuedia*); stone barnacles (*Balanus porcatus*); small crabs (*Hyas coarctatus*); and two young gadoid fishes; from eastern George's Bank, 50 fathoms.

182. JOHN JELLOW, sch. Laura Nelson. Fragments of gold-banded bush-coral (*Keratoisis ornata*); from Le Have Bank, 200 fathoms.

183. EDWARD McQUINN, Gloucester. Specimen of sucker-fish (*Remoropsis brachyptera*), brought in by sch. W. H. Perkins, from Grand Banks, 250 fathoms. (The fish had fastened itself to a rock that came up on the trawl.)

184. Capt. ZADOCK HAWKINS, sch. Gwendolen. A Lamarck's basket-fish (*Astrophyton Lamarckii*), variegated serpent-star (*Ophiopholis aculeata*), two specimens of black rudder-fish (*Palinurichthys perciformis*), one slime-eel (*Myxine glutinosa*) found hanging to the vessel's side, small crabs (*Hyas coarctatus*), star-fish (*Otenodiscus crispatus*), warty sea-rose (*Urticina nodosa*), halibut parasites (*Aega psora*), and a number of species of shells, bryozoa (*Tubulipora crates*), sea cauliflower (*Aloyonium multiflorum*); from St. Peter's and Le Have Banks, 150 to 350 fathoms; also, interesting specimens of rock covered with animal life.

185. RICHARD HERRING, sch. William H. Raymond. A specimen of the gray gannet (?) and specimens of rocks; from northeastern part of George's Bank.

186. JOSEPH P. SHEMELIA, sch. William H. Raymond. Five species of water birds; brought in alive from George's Bank.

187. Capt. A. SIMONS, sch. Defiance. A living specimen of sea-robin (*Prionotus*, sp.); from "The Brewsters," 10 fathoms.

188. EVERETT P. WONSON, East Gloucester. Specimen of the great spiny spider-crab (*Lithodes maia*) and rocks covered with shells, sponges, and barnacles; from Middle Bank.

189. Capt. CHRISTIAN OLSEN and crew, sch. William Thompson. Four basket star-fish, sea-pumpkin (*Pentacta frondosa*), goose barnacles (*Leepas*), from surface, halibut parasite, long-nosed eel (*Synaphobranchus*), lamper-eel (*Petromyzon*), and rocks filled with fossil shells, and others showing "honey-comb" structure; from Le Have Bank, 150 fathoms.

190. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. A large number of rocks covered with barnacles, shells, sponges, hydroids, bryozoa, &c. Also, a large specimen of sponge, branching sponge (*Chalina*), stone barnacles (*Balanus porcatus*), small sea-cucumber (*Thyonidium elongatum*?), and a rosy, many-rayed star-fish (*Crossaster papposus*); from lat. 41° 56' N., long. 66° 25' W., 48 fathoms.

191. THOMAS JEWETT, sch. City of Gloucester. A sea-anemone and large pug-nosed eel; from southeast Le Have Bank, 300 fathoms.

192. Capt. JOSEPH W. COLLINS, sch. Marion. Two species of skates, new to America; Chester's hake (*Phycis Chesteri*), taken from the stomach of a cod; blue hake (*Haloporphyrus viola*), lamper-eel (*Petromyzon*), long-nosed eel (*Synaphobranchus*), eggs of skate, star-fish, great northern sea-feather (*Pennatula borealis*), tube dwelling sea-anemone (*Cerianthus borealis*), warty sea-rose (*Urticina nodosa*), scollop shells, massive sponge (*Halichondria*?), and also three species of water birds; from lat. 43° 55' N., long. 58° 47' W., 175 to 300 fathoms.

193. Capt. JAMES D. MORRISEY, sch. Alice M. Williams. Eight specimens of jointed bush-coral (*Acanella Normani*); from Le Have Bank, 200 fathoms.

194. Capt. W. H. GREENLEAF and crew, sch. Chester R. Lawrence. Five specimens of great bush-coral (*Primnoa reseda*) and one of tree-coral (*Paragorgia arborea*); from Banquereau, lat. 44° 24' N., long. 54° 12' W., 150 fathoms.

195. Maj. DAVID W. LOW, Gloucester. A collection of fossil-bearing rocks from George's Bank.

196. WILLIAM RILEY, sch. Grace C. Hadley. A living specimen of fulmar petrel, taken on a hook on the eastern part of George's Bank.

197. WILLIAM H. BATSON, sch. Marion. Base of great bush-coral (*Primnoa reseda*); from eastern part of Banquereau, 150 fathoms.

198. JOE. MENEZES, Gloucester. A specimen of herring-gull taken in Gloucester Harbor.

199. Capt. PETER JOHNSON, sch. John Smith. Eggs of *Buccinum*, small sea-cucumber (*Thyonidium elongatum*?) taken from the stomach of a cod, shells (*Pecten*, *Terebratulina*, *Velutina lævigata*, *Modiola modiolus*, *Anomia aculeata*), parasite of cod (*Æga psora*), stone barnacles (*Balanus porcatus*), rosy, many-rayed star-fish (*Crossaster papposus*), and young gadoid fishes, compound ascidian (*Amorœcium glabrum*); from south-eastern part of George's Bank, 45 fathoms.

200. EVERETT P. WONSON, East Gloucester. A sponge, eggs of undetermined fish, star-fish (*Crossaster papposus*), and a rock covered with shells, sponges, and bryozoans. Brought in by Capt. Anderson, sch. Farragut, from eastern part of George's Bank, 60 fathoms.

201. Capt. GEO. A. JOHNSON, sch. Augusta H. Johnson. A small specimen of black dog-fish (*Centroscyllium Fabricii*), pug-nosed eel, long-nosed eel (*Synaphobranchus*), several specimens of a rare barnacle (*Scalpellum*), eggs of skate, beak of squid, and hairy cake-sponge (*Trichostemma hemisphæricum*); from Le Have Bank, 300 fathoms. (Through Captain Blatchford.)

202. CUNNINGHAM & THOMPSON, Gloucester. A large sponge from Le Have Bank.

203. T. J. KNOWLES, Gloucester. A large hake's sound (dried) from a 35-pound fish.

204. FRED. A. PEARCE, Gloucester. Five specimens of star-fish (*Hippasteria phrygiana*), rock covered with shells, &c., and a small bill-fish. Brought in by Capt. McComisky, sch. Wachusett, from Western Bank.

205. JAMES DEVAN, Gloucester. Base of an interesting coral from the extreme eastern part of George's Bank, 180 fathoms.

206. Capt. D. MCKINNON and crew, sch. Mary T. Ohisholm. Rare barnacles (*Scalpellum*), jointed bush-coral (*Acanella Normani*), eggs of skate, stickleback (*Gasterosteus viaculeatus*), and three specimens of the long-nosed eel (*Synaphobranchus*); from southeast Le Have Bank, 300 fathoms.

207. DANIEL MCINTIRE, Gloucester. Specimens of gypsum from near the mouth of the river St. Lawrence.

208. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. Two species of sea-cucumbers, pale sea-orange (*Psolus phantapus*), star-fish (*Solaster endeca*?), eggs of undetermined fish, and a mass of bottom formation; from Eastern George's, 45 fathoms.

209. Crew of sch. Northern Star. A great spiny spider-crab (*Lithodes maia*); from four miles off Eastern Point, 35 fathoms.

210. Capt. GEORGE H. MARTIN, sch. Northern Eagle. Several specimens of lump-fish (*Cyclopterus lumpus*), a two-spined stickleback (*Gasterosteus biaculeatus*), *Fundulus* sp., four-bearded rockling (*Enchelyopus cimbrius*, young), and an Isopod crustacean (*Idotea robusta*); taken on the surface near Monhegan Island, Maine, in October.

211. JOHN CONLEY, Gloucester. A specimen of finger-sponge (*Chalina*), attached to a brick; from four miles off Eastern Point, Cape Ann, 35 fathoms.

212. DANIEL McEACHERN, sch. Guy Cunningham. Specimen of the great northern sea-feather (*Pennatula borealis*), star-fish (*Otenodiscus crispatus*), pectens, new hermit-crabs (*Parapagurus pilosimanus*), basket star-fish (*Astrophyton*), large clustered sea-flower (*Epizoanthus paguriphila*), egg-cases of undetermined animal, parasites of halibut (*Aega psora*), a sucker-fish (*Remoropsis brachyptera*), eggs of undetermined fish, Iceland scollop (*Pecten Islandicus*), and four specimens of an undetermined species of fish; from lat. 42° 40' N., long. 63° 6' W., 250 fathoms. (Through Capt. B. F. Blatchford.)

213. Mr. GEORGE W. SCOTT, sch. Lizzie. A large specimen of the Finmark sea-feather (*Balticina Finmarohica*), three specimens of *Scatopellum*, Goode's cup-coral (*Flabellum Goodei*), warty sea-rose (*Urticina nodosa*), great club-sponge (*Cladorhiza grandis*), compound ascidian (*Leptoclinum albidum*), a grenadier (*Macrurus Fabricii*), and sea-spiders (*Pycnogonum littorale*); from lat. 42° 44' N., long. 65° 54' W., 350-400 fathoms. (Through Capt. B. F. Blatchford.)

214. JOSEPH P. SHELIELIA, sch. William H. Raymond. Small sea-cucumbers (*Thyonidium elongatum*?), yellow cake-sponge, parasites of cod (*Aega psora*), large pecten shell, red spider-crabs (*Hyas araneus*), rock-crabs (*Cancer irroratus*), rare, webbed star-fish (*Pteraster pulvillus*), eggs of undetermined fish, young hake, and a number of young fishes of different species; from northeast George's, 47 fathoms.

215. THOMAS BURNS, Gloucester. Specimen of gull (*Larus Delawarensis*), taken in Gloucester Harbor.

216. M. R. PETERSON, sch. Guy Cunningham. Gold-banded bush-coral (*Keratoisis ornata*), with a large bunch of barnacles attached, from lat. 42° 48' N., long. 63° 9' W., 250 fathoms. Also fossil shark's tooth from South Carolina.

217. FRANK MARBLE, East Gloucester. A finger-sponge (*Chalina*), spawn of undetermined fish, and a king-fish (*Menticirrhus nebulosus*) from the stomach of a cod; from off Norman's Woe, Cape Ann, 10 fathoms.

218. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wonson. A specimen of sponge, bases of two species of bush-coral (*Primnoa reseda* and *Acanella Normani*), great northern sea-feather (*Pennatula borealis*), variegated serpent-star (*Ophiopholis aculeata*), large sea-anemones and a sucker-fish (*Remoropsis brachyptera*); from near George's Bank, 150 fathoms.

219. Capt. R. H. HURLBURT, assisted by Capt. R. N. MORRISON and S. Miss. 59—51

crew, sch. Laura Nelson. Eight specimens of jointed bush-coral (*Acanella Normani*), large-flowered coral (*Anthomastus grandiflorus*), warty sea-rose (*Urticina nodosa*), hemispherical papillose ascidian, Lamarck's basket-fish (*Astrophyton Lamarckii*), twining serpent-star (*Astrochela Lymani*), clear scollop (*Pecten vitreus*), scaly worm (*Eunoa spinulosa*), sea worm (*Leodice vivida*), terebelloid worm, slender tubed, serpuloid worm, and, also, a large collection of the rarer deep-water fishes.

220. Capt. JOHN MCKINNON, sch. R. B. Hayes. A great spiny spider-crab (*Lithodes maia*), from 25 miles east by south of Eastern Point, Cape Ann, 45 fathoms.

221. JOHN DULANEY, Gloucester. A specimen of sea-cucumber, from two and one-half miles off Eastern Point, Cape Ann, 18 fathoms.

222. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Star-fish (*Crossaster papposus*), stone barnacles (*Balanus porcatus*), small sea-cucumbers (*Thyonidium Dubenii*?, *Thyonidium elongatum*?), Iceland scollop (*Pecten Islandicus*), and young dogfish (*Squalus americanus*); from lat. 41° 56' N., long. 66° 37' W., 44 fathoms.

223. Capt. WILLIAM THOMPSON and crew, sch. Magic. Specimens of Lamarck's basket star-fish (*Astrophyton Lamarckii*), jointed bush-coral (*Acanella Normani*), warty sea-rose (*Urticina nodosa*), red sea-rose (*Urticina crassicornis*), Finmark sea-feather (*Balticina Finmarchica*), great northern sea-feather (*Pennatula borealis*), arctic velvet star-fish (*Archaster arcticus*), feather-star (*Antedon Eschrichtii*), variegated serpent-star (*Ophiopholis aculeata*), sponges (*Phakellia ventilabrum*), and a large fragment of tree-coral (*Paragorgia arborea*), a scaly worm (*Eunoa spinulosa*), compound ascidian (*Amorœcium glabrum*); from 50 miles east of the East Light of Sable Island, 280 fathoms.

224. Capt. MATTHEW McDONALD, sch. Lizzie K. Clark. Finmark sea-feather (*Balticina Finmarchica*), with sea-anemones (*Urticina*) attached, and a number of shells; from southeast of Sable Island, 170 fathoms.

225. JAMES and JOHN D. McDONALD, sch. Addison Center. An old-fashioned iron kettle, hauled up from the bottom, near Halifax, N. S.

226. Capt. N. MCPHEE and crew, sch. Carl Schurz. A rare species of Gorgonian, or bush-coral, (*Anthothela grandiflora*), attached to which were several scaly worms, new to the American coast; also a great club-sponge (*Cladorhiza grandis*), Finmark sea-feather (*Balticina Finmarchica*), great northern sea-feather (*Pennatula borealis*), Goode's cup-coral (*Flabellum Goodei*), shell with small, warty sea-roses (*Urticina nodosa*) attached, jointed bush-coral (*Acanella Normani*), Lamarck's basket-fish (*Astrophyton Lamarckii*), variegated serpent-star (*Ophiopholis aculeata*), parasites of halibut (*Æga psora*), two pug-nosed eels, and a lamp-eel (*Petromyzon*); from near Sable Island Bank.

227. Capt. M. W. CALDERWOOD, sch. Josie M. Calderwood. Perforated rocks with sponge and shells attached; from lat. 43° 22' N., long. 62° 23' W., 68 fathoms.

228. Capt. THOMAS GOODWIN, sch. Elisha Crowell. A large specimen of the lancet-mouth (*Alepidosaurus ferox*); from Le Have Bank, 200 to 250 fathoms.

229. Capt. Z. HAWKINS and crew, sch. Gwendolen. Specimens of flesh-colored soft coral (*Alcyonium carneum*), tree-coral (*Paragorgia arborea*), an eel-pout (*Zoarces*), lamper-eel (*Petromyzon*), long-nosed eel (*Synphobranchus pinnatus*), an embryo shark cut from the egg, Lamarck's basket-fish (*Astrophyton Lamarckii*), large cluster sea-flower (*Epizoanthus paguriphila*), a new hermit-crab (*Parapagurus pilosimanus*), and a fragment of a hydroid (*Tubularia indivisa*); from lat. 42° 23' N., and long. 62° 20' W., to 63° 20' W., 300 to 400 fathoms.

230. Capt. WILLIAM E. SWEET, sch. Grace C. Hadley. Sea-cucumbers (*Thyonidium Dubenii*), star-fish, and parasites of cod (*Æga psora*); from lat. 42° 47' N., long. 65° 30' W., 55 fathoms.

231. Capt. CHRIS. ANDERSON, sch. Solomon Poole. A large collection of hydroids (*Sertularella polizonius* var. *robusta*), bryozoa (*Idmonea atlantica*, *Caberea Ellisii*, *Cellularia ternata* var. *gracilis*), large green barnacles (*Balanus Hameri*), sponges (*Isodictya palmata*), a sabelloid worm (*Potamilla reniformis*), creeping coral (*Cornulariella modesta*), compound ascidians (*Leptoclinum albidum*, *Amoræoium glabrum*), stemmed sea-peach (*Boltenia Bolteni*), and *Ascidiopsis complanatus*; from 15 miles east of Pollock Rip light-ship, 65 fathoms.

232. Capt. FITZ J. BABSON, Gloucester. A specimen of duck (*Harelda glacialis*) in fine plumage; shot in Squam River, Cape Ann.

233. GEORGE K. ALLEN, sch. M. H. Perkins. A spiny bush-coral (*Acanthogorgia armata*), *Funiculina armata*, branching sponge, great northern sea-feather (*Pennatula borealis*), spiny sea-feather (*Pennatula aculeata*), Finmark sea-feather (*Balticina Finmarchica*), warty sea-rose (*Urticina nodosa*), compound ascidian (*Leptoclinum albidum*), blue hake (*Haloporphyrus viola*), two long-nosed eels (*Synphobranchus pinnatus*), and a pug-nosed eel; from 40 miles southwest of the northwest light of Sable Island, 300 to 400 fathoms.

234. Capt. GEORGE A. JOHNSON, sch. Augusta H. Johnson. Four specimens of the pug-nosed eel, two of which were taken alive from a large cavity which they had excavated along the backbone of a halibut near the tail, long-nosed eel (*Synphobranchus pinnatus*), skipper (*Scombresox saurus*), egg of *Chimæra plumbea* (?), Lamarck's basket-fish (*Astrophyton Lamarckii*), and jointed bush-coral (*Acanella Normani*), bryozoa (*Cellaria fistulosa*), large shrimp (*Pandalus borealis*), spiny, round sponge (*Dorvillia echinata*), creeping coral (*Cornulariella modesta*); from lat. 42° 47' N., long. 63° 10' W., 375 fathoms.

235. Capt. JAMES D. MORRISSEY, sch. Alice M. Williams. Baird's devil-fish (*Octopus Bairdii*), branching-sponge, jointed bush-coral (*Acanella Normani*), Lamarck's basket-fish (*Astrophyton Lamarckii*), deep-water star-fish (*Archaster Andromeda*), *Alcyonium carneum*, large flowered coral (*Anthomastus grandiflorus*), great sea-cucumber (*Pentaacta frondosa*),

eggs of shark, eggs of unknown fish attached to *Avanella*, and parasite of halibut (*Aga psora*); from lat. 43° 25' N., long. 60° 20' W., 170 fathoms.

236. Capt. PETER HAMLIN, sch. Andrew Leighton. A lancet-mouth (*Alepidosaurus ferax*) and a pug-nosed eel; from lat. 42° 45' N., long. 63° W., 195 fathoms.

237. Capt. JOSEPH W. COLLINS and crew, sch. Marion. One specimen of the grenadier (*Macrurus Fabricii*), three black dog-fish (*Centroscyllium Fabricii*), two black dog-fish (*Centroscymnus coelolepis*), two lancet-mouths (*Alepidosaurus ferax*), four chimæras (*Chimæra plumbea*), two lamper-eels (*Petromyzon*, sp.), one arctic dab (*Hippoglossoides*), one pug-nosed eel, one blue hake (*Haloporphyrus viola*), and an undetermined eel-like fish. Among the invertebrates were a comatula (*Antedon Sarsii*?), three Finmark sea-feathers (*Balticina Finmarchica*), one great northern sea-feather (*Pennatula borealis*), nineteen spiny sea-feathers (*Pennatula aculeata*), one undetermined sea-pen, nine sea-anemones, and thirteen specimens of a rare species of barnacle (*Scalpellum*). These specimens were from several localities on the Fishing Banks.

238. Capt. J. FRANK DUNTON, sch. Mary Low. A fine specimen of a vase-sponge, from the southwest part of Sable Island Bank; lat. 43° 9' N., 55 fathoms. (Through Procter Brothers.)

239. Capt. WM. H. GREENLEAF and crew, sch. Chester R. Lawrence. One specimen of blue hake (*Haloporphyrus viola*), long-nosed eel (*Synaphobranchus pinnatus*), pug-nosed eel, lamper-eel, (*Petromyzon* sp.), great northern sea-feather (*Pennatula borealis*); Goode's cup-coral (*Flabellum Goodei*), bush-corals (*Acanthogorgia armata*, *Anthothela grandiflora*, and *Anthomastus grandiflorus*), Lamarck's basket-fish (*Astrophyton Lamarckii*); also a sea-anemone, terebelloid worm, great club-sponge (*Cladorhiza grandis*), and a new coral.

240. Capt. THOMAS F. HODGDON and crew, sch. Bessie W. Somes. Specimens of jointed bush-coral (*Acanella Normani*), a branching-sponge, great northern sea-feather (*Pennatula borealis*), spiny sea-feather (*Pennatula aculeata*), Finmark sea-feather (*Balticina Finmarchica*), warty sea-roses (*Urtioina nodosa*), barnacles (*Scalpellum*), parasites of halibut (*Aga psora*), shells, sponges, and a red velvet star-fish (*Archaster Parellii*); from lat. 43° 34' N., long. 49° W., 60 fathoms.

241. Capt. CHRIS. OLSEN and crew, sch. William Thompson. A large annelid called the sea-mouse (*Aphrodita aculeata*), eggs of a gastropod mollusk (*Buccinum undatum*), rosy, many-rayed star-fish (*Crossaster papposus*), Hyatt's bob-tailed squid (*Rossia Hyatti*), and rocks covered with worms and hydroids (*Sertularia abietina*, *Sertularella triouspidata*); from lat. 44° 20' N., long. 59° W., 60 fathoms.

242. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. Great northern sea-feather (*Pennatula borealis*), Finmark sea-feather (*Balticina Finmarchica*), with sea-anemone (*Urtioina*), great spiny spider-crab (*Lithodes maia*), four Lamarck's basket-fish (*Astrophyton Lamarckii*),

two deep-water star-fish, fragment of a tree-coral (*Paragorgia arborea*), a slime-eel (*Myxine glutinosa*), lamper-eel (*Petromyzon* sp.), and a young Norway haddock (*Sebastes*); from lat. 43° 15' N., long. 60° 20' W., 350 fathoms.

243. J. MURPHY, sch. Gertie E. Foster. A fine specimen of sponge, from lat. 42° 16' N., long. 64° 50' W., 200 fathoms.

244. ISAAC BUTLER, sch. Esther Ward. Three specimens of a basket-star-fish (*Astrophyton Agassizii*), parasites of cod, (*Aega psora*), sea-mouse (*Aphrodita aculeata*), taken from the stomach of a cod, flesh-colored soft coral (*Alcyonium carneum*), and two specimens of a papillose, yellow cake-sponge; from Brown's Bank, 52 fathoms.

245. JOHN DANFORTH, Gloucester. A flesh-colored soft coral (*Alcyonium carneum*), and a large worm from the shore above low-water mark.

246. ISAAC S. HEWETT, sch. J. J. Clark. A large cluster of stone barnacles (*Balanus porcatus*), from northern edge of Middle Bank, 50 fathoms.

247. Capt. R. MORRISON and crew, sch. Laura Nelson. A sucker-fish (*Petromyzon* sp.), found clinging to the side of a hake, a fragment of tree coral (*Paragorgia arborea*), large flowered sea-feather (*Virgularia grandiflora*), and papillose, yellow cake-sponges; from Le Have Bank, lat. 42° 32' N., long. 64° 19½' W., 300 fathoms.

248. DANIEL MCEACHERN, sch. Guy Cunningham. Specimens of sea-anemones, a yellow cake-sponge, nipple sponge (*Polymastia*), a slime-eel (*Myxine glutinosa*), and a small lamper-eel (*Petromyzon* sp.), bryozoa (*Idmonea atlantica*, *Ocellaria fistulosa*), sea-potato (*Ascidia mollis*), lamp-shell (*Terebratulina septentrionalis*), common clustered sea-flower (*Epizoanthus Americanus*); from lat. 42° 56' N., long. 63° 4' W., 75 fathoms.

249. GEORGE W. SCOTT, sch. Edwin C. Dolliver. A fine specimen of the blue hake (*Haloporphyrus viola*), Chester's hake (*Phycis Chesteri*), a small catfish (*Anarhichas* sp.), eggs of black dog-fish, a pug-nosed eel, five long-nosed eels (*Synaphobranchus pinnatus*), a chimæra (*Ohimara plumbea*), scaly worm (*Eunoa spinulosa*), devil-fish (*Octopus*), great northern sea-feather (*Pennatulula borealis*), spiny sea-feather (*Pennatulula aculeata*), Finmark sea-feather (*Balticina Finmarkica*), fragment of gold-banded bush-coral (*Keratoisis ornata*), jointed bush-coral (*Acanella Normanii*), flesh-colored soft-corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), Lamarck's basket-fish (*Astrophyton Lamarckii*), and shells; from lat. 43° 23' N., long. 60° 16' W., 300 fathoms. Acknowledgments are also due Mr. Scott for a daily log of the entire trip.

250. Capt. JOHN Q. GETCHELL, schr. Otis P. Lord. Two specimens of finger-sponge (*Ohalina*), flesh-colored soft coral (*Alcyonium carneum*), and a fragment of rock from Brown's Bank, lat. 42° 50' N., long. 65° 10' W., 53 fathoms. Also a great spiny spider-crab (*Lithodes maia*), from lat. 43° 15' N., long. 69° 50' W., 70 fathoms.

251. H. C. MOORE, sch. Chester R. Lawrence. Tusk of a walrus, found on the coast of Newfoundland.

252. J. LAKEMAN, Gloucester. A large specimen of the great spiny spider-crab (*Lithodes maia*); from unknown locality.

253. Capt. WILLIAM SWEET, sch. Grace C. Hadley. A fine specimen of a branching bryozoan, a star-fish, and a Norway haddock (*Sebastes marinus*); from George's Bank, 55 fathoms.

254. JAMES GORDAN, sch. Carl Schurz. A number of specimens of the jointed bush-coral (*Acanella Normani*), scallop shells (*Pecten vitreus*), star-fish and egg-cases of undetermined animal; from Le Have Bank.

255. EDGAR S. SCOTT and GEORGE A. SANDERS, sch. Hattie N. Reed, Capt. Arthur C. Whalen. A china pitcher of foreign workmanship on which was growing a large bunch of stone barnacles (*Balanus porcatus*); taken on a trawl on the southeastern part of Jeffrey's Bank, 75 fathoms. (Through Procter Brothers.)

256. JOHN MCDUGAL, sch. Polar Wave. Four specimens of a rare pelagic fish (*Scopelus* sp.), washed aboard during a storm, in lat. 42° 17' N., long. 63° 30' W., and a long-spined velvet-star (*Archaster tenuispinus*.)

257. GEORGE K. ALLEN, sch. Procter Brothers. Four specimens of Norway haddock (*Sebastes* sp.), three small codfish (*Gadus morrhua*), a number of stomachs of haddocks, several specimens each of two species of star-fish (*Solaster* and *Otenodiscus*), slender purple star-fish (*Leptasterias compta*), feather-star (*Antedon Eschrichtii*), green sea-egg (*Strongyloentrotus Dröbachiensis*), a crab (*Hyas coarctatus*) taken from the stomach of a cod, flesh-colored soft coral (*Acyonium carneum*), variegated serpent-star (*Ophiopholis aculeata*), Lamarck's basket-fish (*Astrophyton Lamarckii*), several species of shells, sea-cauliflower (*Acyonium multiflorum*), two hydroids (*Campanularia verticellata*), *Ascidioopsis complanatus*, hairy cake-sponge (*Trichostemma hemisphaericum*), smooth, round sponge, hairy cake-sponge (*Tethya*), nipple sponge (*Polymastia*, hispid species), and four specimens of an undetermined invertebrate; from 7 to 10 miles southeast of Little Hope Light, Nova Scotia, 35 to 60 fathoms.

258. Capt. PETER HAMLIN and crew, sch. Andrew Leighton. A large specimen of a ghost-fish (*Cryptacanthodes maculatus*); from lat. 42° 45' N., long. 63° 20' W., 200 fathoms.

259. Capt. N. MURPHY, sch. Franklin S. Schenck. A large specimen of sea-anemone; from Jeffrey's Bank.

260. BENJAMIN MORAN, Gloucester. The pectoral bone of a fish called by fishermen the "singing-fish"; taken near Buenos Ayres, S. A., in 16 fathoms of water.

261. Capt. THOMAS GOODWIN and crew, sch. Howard. A large specimen of the great northern sea-feather (*Pennatula borealis*), long-nosed eel (*Synaphobranchus pinnatus*), star-fish (*Hippasteria*), and a rock; from lat. 42° 40' N., long. 60° 50' to 55' W., 200 to 300 fathoms.

262. Capt. THOMAS F. HODGDON and crew, sch. Bessie W. Some's. A great northern sea-feather (*Pennatula borealis*), massive sponge (*Haliclondria?*), Earll's many-rayed star-fish (*Solaster Earllii*); from Le Have Bank.

263. Capt. JAMES D. MORRISEY and crew, sch. Alice M. Williams. A small pelagic fish (*Scopelus* sp.), washed aboard during a storm. Also, two rocks, from lat. 43° 25' N., long. 61° 25' W., 200 fathoms.
264. ANGUS McNEIL, sch. Marion. A portion of the skull and tusks of a walrus, hooked up on a trawl, in 75 fathoms of water; lat. 42° 53' N., long. 63° 05' W.
265. Capt. JOSEPH W. COLLINS and crew, sch. Marion. A smooth bob-tailed squid (*Rossia sublevis*), Baird's devil-fish (*Octopus Bairdii*), five specimens of the great northern sea-feather (*Pennatula borealis*), a pug-nosed eel (*Simenchelys parasiticus*), a slime-eel (*Myxine glutinosa*), and eggs of *Chimæra* (?); from lat. 42° 49' N., long. 62° 57' W., 200 to 300 fathoms.
266. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. Two specimens of lamprey-eels (*Petromyzon*), stone barnacles (*Balanus porcatus*), and jointed bush-coral (*Acanella Normani*); from lat. 43° 14' N., long. 62° 45' W., 55 fathoms.
267. Captain and crew of sch. Ida May. A specimen of the great spiny spider-crab (*Lithodes maia*); from 7 miles off Eastern Point, 35 fathoms.
268. CHARLES RUCKLEY, sch. William H. Oakes. A blue hake (*Haloporphyrus viola*), two specimens of *Scopelus* sp., a sand launce (*Ammodytes* sp.), four spiny sea-feathers (*Pennatula aculeata*), a Finmark sea-feather (*Balticina Finmarchica*), a deep-water star-fish (*Asterias stellionura*), a soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), jointed bush-coral (*Acanella Normani*), shells, and sea-anemones; from latitude 44° 8' N., long. 53° 20' W., 300 fathoms.
269. THOMAS LEE, sch. William H. Oakes. A very rare goggle-eyed squid (*Desmoteuthis hyperborea*), taken with a gaff from the vessel's deck, on the northern edge of the Gulf Stream, long. 55° W. Not known before from this coast.
270. GEORGE W. SCOTT, sch. Edwin C. Dolliver. A large deep-water skate (*Raia granulata*), the second specimen obtained, two other skates (*Raia radiata*), two monk-fish (*Lophius piscatorius*), Finmark sea-feather (*Balticina Finmarchica*), and two tube-dwelling sea-anemones (*Cerianthus borealis*); from 36 miles southeast by east of N. E. light of Sable Island, 90 to 150 fathoms.
271. Capt. WILLIAM SWEET, sch. Grace C. Hadley. A young Norway haddock (*Sebastes*), slender purple star-fish (*Leptasterias compta*), red spider-crab (*Hyas araneus*), small sea-cucumber (*Thyonidium Dubenii*?), tree-coral (*Paragorgia arborea*), finger-sponge, red sea-roses (*Urticina crassicornis*), twining serpent-star (*Astrochele Lymani*), variegated serpent-star (*Ophiopholis aculeata*), yellow cake-sponge, crab, and worms; from Brown's Bank, 70 fathoms.
272. MATT. RYAN and others, sch. Lizzie, Capt. R. Grant. Two specimens of a tube-dwelling sea-anemone (*Cerianthus borealis*), two soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), a

star-fish (*Otenodiscus*); and two pelagic fishes (*Scopelus* sp.), washed aboard during a storm; from the Grand Banks.

273. ADDISON GOTT, Rockport, Mass. A fragment of limestone containing iron and perforated by *Saxicdva arctica*; brought up on George's Bank, in 1876, by the sch. Rival, of Gloucester.

274. Mr. ELDRIDGE, Woodbury, Mass. A vertebra of a whale, hooked up in Ipswich Bay. (Through Mr. Wm. Oakes.)

275. Capt. GEORGE H. MARTIN and crew, sch. Northern Eagle. A large-headed eel-pout (*Zoarces* sp.), the second specimen procured, and a common eel-pout (*Zoarces anguillaris*), several skates, and many shells and star-fish representing several species; from Ipswich Bay, 9 to 16 fathoms.

276. Capt. CHRIS. OLSEN and crew, sch. William Thompson. Four large specimens of soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), tube-dwelling sea-anemone (*Cerianthus borealis*), and a number of Lamarck's basket-fish (*Astrophyton Lamarckii*); from Grand Banks, 150 fathoms.

277. Capt. S. J. MARTIN, East Gloucester. A young catfish (*Anarrhichas* sp.); from Ipswich Bay, 10 fathoms.

278. JAMES HANSON, sch. Sarah P. Ayer. A fine specimen of tree-coral (*Paragorgia arborea*), to the enlarged base of which is attached a large cluster of stone barnacles (*Balanus porcatus*); from near George's Bank, 135 fathoms.

279. Capt. John Q. GETCHELL, sch. Otis P. Lord. Several young Norway haddock (*Sebastes*), five sand-launces (*Ammodytes*), two stemmed sea-peaches (*Boltenia Bolteni*), parasites of cod (*Æga psora*), sand-dollars, red spider crabs (*Hyas coarctatus*), pale sea-orange (*Psolus phantapus*), small sea-cucumbers (*Thyonidium elongatum?*), a red sea-rose (*Urticina crassicornis*), big-rayed sea-rose (*Bolocera Tuedia*), two fine specimens of finger-sponge (*Chalina*), ascidian (*Molgula retortiformis*), and a large collection of rocks covered with shells, hydroids (*Sertularia abietina*, *Olytia*), bryozoans, and sponges; from Brown's Bank.

280. CAPT. R. H. HURLBURT, sch. Sultana. A large specimen of a hydroid, several large pecten shells, ascidians, common star-fish (*Asterias vulgaris*), worm (*Thelepus cincinnatus*), great sea-cucumber (*Pentacta frondosa*), stemmed sea-peach (*Boltenia Bolteni*), spawn of unknown fish, and four large mussel-shells covered with hydroids (*Diphasia fallax*), bryozoans, and barnacles, yellow cake-sponge; also, mackerel (*Scomber scombrus*) and cunners (*Tautogolabrus adpersus*) taken from the stomachs of cod (*Gadus morrhua*); from northeast part of George's Bank.

281. DANIEL MOEACHERN, sch. Guy Cunningham. A long-spined velvet star-fish (*Archaster tenuispinus*), four tube-dwelling sea anemones (*Cerianthus borealis*), twelve spiny sea-feathers (*Pennatula aculeata*), two large papillose, yellow cake-sponges, parasites of halibut (*Æga psora*), two warty sea-roses (*Urticina nodosa*), big-rayed sea-rose (*Bolocera Tuedia*), two grenadiers (*Macrurus Fabricii*), and a small codfish; from latitude 44° 28' N., long. 53° 35' W., 128 fathoms.

282. Captain and crew, sch. Polar Wave. Two great northern sea-feathers (*Pennatula borealis*), warty sea-rose (*Urticina nodosa*), sea-corn (eggs of *Buccinum*), cup-sponge (*Isodictya*), slimy sponge (*Raphiodesma lingua*), pug-nosed eel, long-nosed eel (*Synaphobranchus pinnatus*), and rare shells; from the western edge of Grand Banks, lat. $44^{\circ} 18' N.$, 200 to 225 fathoms.

283. Capt. J. W. COLLINS and crew, sch. Marion. Two rare deep-water skates, one black dog-fish (*Centroscyllium Fabricii*), a pelagic fish (*Scopelus*) washed aboard, sponges, and a rock with sea-anemone attached; from lat. $44^{\circ} 33' N.$, long. $64^{\circ} 48' W.$, 150 fathoms.

284. Capt. JAMES D. MORRISEY and crew, sch. Alice M. Williams. A specimen of *Scopelus* washed aboard, and a Norway haddock (*Sebastes*), Finmark sea-feather (*Balticina Finmarchica*), flesh-colored soft coral (*Alcyonium carneum*), and a Lamarck's basket-fish (*Astrophyton Lamarckii*); from near lat. $40^{\circ} N.$, long. $55^{\circ} 50' W.$

285. HENRY WILSON, sch. Flash. Several warty sea-roses (*Urticina nodosa*), red sea-rose (*Urticina crassicornis*), eggs of Gasteropod, small velvet-star (*Otenodiscus crispatus*), sponges, several species of shells, and three gulls (*Rissa tridactyla*); from lat. $49^{\circ} 9' N.$, long. $52^{\circ} 3' W.$, 180 fathoms.

286. Capt. WILLIAM THOMPSON and crew, sch. Magic. Great northern sea-feather (*Pennatula borealis*), warty sea-roses (*Urticina nodosa*), sea-mouse (*Aphrodita*), yellow cake-sponge, hairy cake-sponge (*Trichostemma hemisphaericum*), papillose yellow cake-sponge, sea-corn (eggs of *Buccinum*), sea-cauliflower (*Alcyonium multiflorum*), Lamarck's basket-fish (*Astrophyton Lamarckii*), Flora's velvet-star (*Archaster Floræ*), and a rock bored by *Saxicava artica*; from lat. $44^{\circ} 55' N.$, long. $52^{\circ} W.$, 150 fathoms.

287. Capt. R. MORRISON and crew, sch. Laura Nelson. Two specimens of the slime-eel (*Myxine glutinosa*), and sea-cauliflower (*Alcyonium multiflorum*); from lat. $43^{\circ} 33' N.$, long. $52^{\circ} 10' W.$, 300 fathoms.

288. MICHAEL FLAHERTY, Gloucester. Bones from the head of a shark.

289. Capt. JAMES NICKERSON and crew, sch. Commonwealth. An undetermined young shark, taken from the mother, in lat. $45^{\circ} 7' N.$, long. $54^{\circ} 30' W.$, 82 fathoms.

290. GEORGE W. SCOTT, sch. Edwin C. Dolliver. Two black dog-fish (*Centroscyllium Fabricii*), three slime-eels (*Myxine glutinosa*), a blue hake (*Haloporphyrus viola*), grenadier (*Macrurus Fabricii*), two turbot, two great northern sea-feathers (*Pennatula borealis*), two Finmark sea-feathers (*Balticina Finmarchica*), and a deep-water star-fish (*Asterias stellionura*); from lat. $44^{\circ} 45' N.$, long. $53^{\circ} 54' W.$, 400 fathoms. Also a grenadier (*Macrurus Fabricii*), two long-nosed eels (*Synaphobranchus pinnatus*), three star-fish (*Otenodiscus*), a sponge, and two species of shells; from lat. $44^{\circ} 23' N.$, long. $53^{\circ} 25' W.$, 200 fathoms.

291. Capt. JOHN KAVANAGH and crew, sch. Alfred Walen. Spawn of unknown fish, sea-worm (*Nereis pelagica*), variegated serpent-star (*Ophiopholis aculeata*), shells containing hermit-crabs (*Eupagurus bern-*

hardus), parasites of cod (*Aega psora*), flesh-colored soft coral (*Alcyonium carneum*), hydroid (*Hydractinia echinata*), red velvet-star (*Archaster Parelitii*), and a rock covered with sponges and shells; from George's Bank, 32 fathoms.

292. Capt. THOMAS GOODWIN and crew, sch. Howard. A rare large-flowered sea-feather (*Virgularia grandiflora*), the third specimen discovered. Also two slime-eels (*Myxine glutinosa*), Lamarck's basket-fish (*Astrophyton Lamarckii*), three sea-cuculiflowers (*Alcyonium multiflorum*), yellow cake-sponge, and a rock; from Grand Banks, lat. 45° 3' N., long. 54° 30' W., 85 fathoms.

293. Captain and crew sch. Davy Crockett. A large rock hauled up on a trawl in lat. 45° 12' N., long. 54° 30' W., 85 fathoms.

294. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Small Norway haddock (*Sebastes*), alewife (*Pomolobus* sp.), star-fish, shrimps, crabs, sea-cucumbers, sea-urchins, sea-mouse (*Aphrodita*), hydroids, yellow cake-sponge, and other species of sponges, rocks, and several species of shells; from lat. 42° 42' N., long. 65° 40' W., 50 fathoms.

295. JAMES MANSFIELD & SONS, Gloucester. Specimens of codfish from Grand Banks, with a number of small fish firmly imbedded in the flesh.

296. DANIEL MCEACHERN, sch. Guy Cunningham. A sea-cucumber (*Pentacta frondosa*) and a basket star-fish (*Astrophyton*); from lat. 44° 12' N., long. 59° 12' W., 160 fathoms.

297. Capt. WILLIAM SWEET, sch. Grace C. Hadley. A large pecten shell, two great sea-cucumbers (*Pentacta frondosa*), star-fish (*Asterias*), and a finger-sponge (*Chalina*); from George's Bank.

298. MATT. RYAN, sch. Seth Stockbridge. An undetermined fish found on the vessel's deck while dressing halibut, in lat. 44° 10' N., long. 52° 35' W., 130 fathoms.

299. Capt. RUSSELL G. GILL, sch. Maud Gertrude. A large codfish, with the head and back of a light golden color, taken in 16 fathoms of water, in Ipswich Bay, Mass.

300. Capt. WM. GREENLEAF and crew, sch. Chester R. Lawrence. Two slime-eels (*Myxine glutinosa*), a great spiny spider-crab (*Lithodes maia*) and a green sea-egg (*Strongylocentrotus Dröbachiensis*); from the Grand Banks.

301. R. H. HURLBURT, sch. Sultana. A small sculpin (*Cottus*), hydroids, and a finger-sponge (*Chalina*); from George's Bank, 35 fathoms.

302. Capt. THOMAS F. HODGDON and crew, sch. Bessie W. Somes. Specimens of sea-corn (eggs of *Buccinum*) and jointed bush-coral (*Acanella Normani*); from the Grand Banks.

303. Capt. NATHANIEL GREENLEAF and crew, sch. Grace L. Fears. Two large specimens of the fringed star-fish (*Asterias stellionura*), Lamarck's basket-fish (*Astrophyton Lamarckii*), warty sea-rose (*Urticina nodosa*), sponges, hydroids, and rocks; from lat. 44° 7' N., long. 59° 2' W., 150 to 200 fathoms.

304. JOSEPH P. SHEMELIA, sch. William H. Raymond. A pecten shell with barnacles attached, and a rock; from Eastern George's, 35 fathoms.
305. CHRISTIAN JOHNSON, sch. William Thompson. A new species of fish (*Alepocephalus Bairdii*) from the Grand Banks. The other species of this genus are confined to the Mediterranean Sea.
306. Capt. GEORGE JOHNSON and crew, sch. Augusta H. Johnson. The jaws of a ground-shark and a number of star-fish (*Ctenodiscus*); from the Grand Banks, 130 fathoms.
307. Capt. JOHN WOODBURY, sch. Barracouta. A rock covered with shells, hydroids, barnacles, and sponges, flesh-colored soft coral (*Alcyonium carneum*); from the northern part of George's Bank, 35 fathoms.
308. CHARLES RUOKLEY, sch. Frederick Gerring, jr., Capt. Edward Morris. Three slime-eels (*Myxine glutinosa*), part of the jaw of a ground-shark, sponges (*Thecophora ibla*), stemmed sea-peach (*Boltenia Bolteni*), sea-anemones, yellow cake-sponge, bryozoa (*Flustra securifrons*, *Caberea Ellisii*, *Celleporaria incrassata*), flesh-colored soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), great bush-coral (*Primnoa reseda*), star-fish (*Crossaster papposus*), common serpent-star (*Ophiacantha bidentata*), green sea-egg (*Strongylocentrotus Dröbachiensis*), red spider-crab (*Hyas coarctatus*), hermit crab (*Eupagurus*), red shrimp (*Hippolyte securifrons*), parasites of halibut (*Æga psora*), hydroids (*Lafocia*, *Sertularella polyzonias* var. *robusta*, *Sertularia argentea*), and rocks with creeping coral attached, sea-worm (*Nereis pelagica*), shells (*Buccinum oyaneum*, *Natica clausa*), lamp-shell (*Terebratulina septentrionalis*); from Green Bank and the Grand Banks.
309. Capt. JOSEPH W. COLLINS and crew, sch. Marion. A rare deep-water skate (*Raia granulata*), small Norway haddock (*Sebastes*), grenadier (*Macrurus Fabricii*), yellow cake-sponge, and rocks with shells and bryozoans attached; from the Grand Banks.
310. Capt. CHARLES V. MOULTON, sch. Peter D. Smith. A lamper-eel (*Petromyzon marinus*), young hake (*Phycis*), egg of skate, red sea-rose (*Urticina crassicornis*), parasite of cod (*Æga psora*), great sea-cucumber (*Pentacta frondosa*), and hydroids (*Hydrallmania falcata*, *Sertularella tricuspidata*, *Sertularia argentea*, *Sertularia abietina*); from 12 miles southeast by south of Half Moon Shoal, George's Bank, 26 fathoms.
311. Capt. WILLIAM THOMPSON and crew, sch. Magic. A large common basket-fish (*Astrophyton Agassizii*), a deep-water star-fish (*Asterias stellionura*), and a cup-sponge; from lat. 43° 42' N., long. 55° 10' W., 100 fathoms.
312. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. Specimens of soft coral (*Alcyonium carneum*), common basket-fish (*Astrophyton Agassizii*), stemmed sea-peach (*Boltenia Bolteni*), hydroid (*Lafocia*), and sponges; from lat. 43° 38' N., long. 55° 8' W., 110 fathoms.
313. Capt. JAMES NICKERSON and crew, sch. Commonwealth. A long nosed eel (*Synphobranchus pinnatus*), slime-eel (*Myxine glutinosa*), two

great northern sea-feathers (*Pennatula borealis*), yellow cake-sponge, warty sea-rose (*Urticina nodosa*), and shells; from the Grand Banks.

314. Capt. ALFRED SPURR and crew, sch. John F. Wonson. Sea-corn (eggs of *Buccinum*), basket star-fish, stone barnacles (*Balanus porcatus*), sea-anemones, ascidians, hydroids, and shells; from off Chatham, Mass., 45 fathoms.

315. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Small Norway haddock (*Sebastes*), lant (*Ammodytes*), Lamarck's basket-fish (*Astrophyton Lamarckii*), small sea-cucumbers (*Thyonidium Dubenii?*, *Thyonidium elongatum*), star-fish (*Leptasterias tenera?*), parasites of cod (*Æga psora*), small clustered tube-worm (*Filigrana implexa*), sea-potato (*Ascidia mollis*), yellow cake-sponge, hairy cake-sponge (*Trichostemma hemisphæricum*), crabs (*Hyas coarctatus*), hermit-crabs, shrimps, red sea-rose (*Urticina crassicornis*), shells, barnacles, and hydroids (*Sertularella tricuspadata*, *Sertularella polyzonias* var. *robusta*); from Brown's Bank, 30 fathoms.

316. Capt. THOMAS GOODWIN and crew, sch. Howard. Two black dog-fish (*Centroscymnus coolepis*), chimæra (*Chimæra plumbea*), two rare deep-water skates not yet identified, four long-nosed eels (*Synaphobranchus pinnatus*), a Baird's grenadier (*Macrurus Bairdii*), blue hake (*Haloporphyrus viola*), three of Lamarck's basket-fish (*Astrophyton Lamarckii*), four very rare fringed star-fish (*Asterias stellionura*), fragments of tree coral (*Paragorgia arborea*), large flowered sea-feather (*Virgularia grandiflora*), two brittle stars (*Ophiurans*), jointed bush-coral (*Acanella Normani*), flesh-colored soft coral (*Alcyonium carneum*), warty sea-roses (*Urticina nodosa*), red sea-roses (*Urticina crassicornis*), hairy cake-sponge (*Trichostemma hemisphæricum*), yellow cake-sponge, shells and rocks with sponges, bryozoans, &c., attached; from the Grand Banks, 200 fathoms.

317. Capt. JOHN MCINNIS and crew, sch. M. H. Perkins. A long-nosed eel (*Synaphobranchus pinnatus*), large flowered sea-feather, (*Virgularia grandiflora*), great northern sea-feather (*Pennatula borealis*), jointed bush-coral (*Acanella Normani*), sheet sponge, sea-anemone, parasite of halibut (*Æga psora*); from 30 miles south of N. W. light of Sable Island, N. S., 200 fathoms.

318. DANIEL MCEACHERN, sch. Guy Cunningham. Five specimens of the large flowered sea-feather (*Virgularia grandiflora*), two great northern sea-feathers (*Pennatula borealis*), great club-sponge (*Cladorhiza grandis*), two of Lamarck's basket-fish (*Astrophyton Lamarckii*), sea-spider (*Pycnogonum littorale*), great northern spider crabs (*Chionectes opilio*), hermit-crabs (*Eupagurus Kröyeri*), grenadier (*Macrurus Fabricii*), and two slime-eels (*Myxine glutinosa*); from lat. 44° 36' N., long. 57° 7' W., 200 fathoms.

319. Capt. PETER JOHNSON, sch. John Smith. A small lamper-eel (*Petromyzon*), skate (*Raia radiata*), and a large bunch of gasteropod eggs; from Brown's Bank.

320. GEORGE W. SCOTT, sch. H. A. Duncan. Two grenadiers (*Macrurus Fabricii*), a large Norway haddock (*Sebastes*), blue hake (*Halopor-*

phyrus viola), two slime-eels (*Myxine glutinosa*), black dog-fish (*Centrosyllium Fabricii*), specimens of great bush-coral (*Primnoa reseda*), a large Finmark sea-feather (*Balticina Finmarchica*) with five sea-anemones attached, three basket star-fish, compound ascidian, sea-corn (eggs of *Buccinum*), and four yellow cake-sponges; from lat. 44° 38' N., long. 57° 9' W., 200 fathoms.

321. Capt. R. MORRISON and crew, sch. Laura Nelson. A brittle star, flesh-colored soft coral (*Alcyonium carneum*) and a sea anemone (*Urticina*); from Banquereau, 90 to 100 fathoms.

322. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wouson. Five specimens of great bush-coral (*Primnoa reseda*) and fragments of tree-coral (*Paragorgia arborea*), perforated cushion-star (*Tremaster mirabilis*); from near George's Bank, 100 to 250 fathoms.

323. JOSEPH SHEMELIA, sch. William H. Raymond. A number of young fish of different species, small crustacea (*Synidotea nodulosa*), parasites of cod (*Aega psora*), stemmed sea-peach (*Boltenia Bolteni*), hermit-crab, variegated serpent-star (*Ophiopholis aculeata*), and four large pecten shells with hydroids and barnacles attached; from George's Bank.

324. Capt. R. J. ROPER, sch. Esther Ward. A large rock covered with shells, barnacles, and hydroids; and a pecten shell covered with barnacles and sponge; from Eastern George's, 48 fathoms.

325. Capt. ANDREW NELSON, sch. Carleton. A finger-sponge (*Chalina*); from Brown's Bank, 46 fathoms.

326. Captain and crew, sch. Farragut. A large star-fish (*Hippasteria*), shells and rocks; from Ipswich Bay, 16 fathoms.

327. JOHN I. WILSON, sch. Polar Wave, Captain Gilpatrick. Species of *Lycodes* until recently known only from the coast of Greenland, pug-nosed eel, seven soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), large fragment of jointed bush-coral (*Acanella Normani*), large flowered coral (*Anthomastus grandiflorus*), warty bush-coral (*Paramuricea borealis*), four ruffled sea-roses (*Actinernus nobilis*), three of Lamarck's basket-fish (*Astrophyton Lamarckii*), fringed star-fish (*Asterias stellionura*), perforated cushion-star (*Tremaster mirabilis*), sponge (*Thecophora ibla*), worms, and a rock; from lat. 44° 32' N., long. 57° 9' W., 220 fathoms. Also a spiny sea-feather (*Pennatula aculeata*), two great northern sea-feathers (*Pennatula borealis*), and three Finmark sea-feathers (*Balticina Finmarchica*); from lat. 43° 8' N., long. 53° 27' W., 180 fathoms.

328. Capt. THOMAS F. HODGDON and crew, sch. Bessie W. Somes. A great northern sea-feather (*Pennatula borealis*), and a Finmark sea-feather (*Balticina Finmarchica*) with a sea-anemone (*Urticina*) attached; from the Grand Banks.

329. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. A small eel-pout (*Zoarces anguillaris*), two slime-eels (*Myxine glutinosa*), and a hermit-crab; from the eastern part of George's Bank, 46 fathoms.

330. Capt. CHARLES V. MOULTON, sch. Peter D. Smith. A lamper-

eel (*Petromyzon marinus*), sabelloid worm, a compound ascidian, and a stemmed sea-peach (*Boltenia Bolteni*); from George's Bank.

331. Capt. OTIS JOHNSON, sch. Helen M. Dennis. A finger-sponge (*Chalina*), and a flesh-colored soft coral (*Alcyonium carneum*); from Brown's Bank, 46 fathoms.

332. Capt. JOHN VIBERT and crew, sch. Argonaut. Two species of nipple-sponge (*Polymastia*), small clustered tube-worm (*Filigrana implexa*), six specimens of sea-corn (eggs of *Buccinum*), three flesh-colored soft corals (*Alcyonium carneum*), great bush coral (*Primnoa reseda*), and flat sea-urchins; from Western Bank, 30 to 50 fathoms.

333. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. A new species of star-fish, long-spined velvet-star (*Archaster tenuispinus*), a green sea-egg (*Strongylocentrotus Dröbackiensis*), and slime-eels (*Myxine glutinosa*); from lat. 45° 2' N., long. 56° 11½' W., 130 to 160 fathoms.

334. GEORGE K. ALLEN, sch. George P. Rust. A portion of the skull of a fish (probably the blackfish); from near Sable Island, N. S.

335. Capt. JOSEPH W. COLLINS and crew, sch. Marion. Two large blue hake (*Haloporphyrus viola*), four grenadiers (*Macrurus Fabricii*), two long nosed eels (*Synaphobranchus pinnatus*), Norway haddock (*Sebastes*), black dog-fish (*Centroscyllium Fabricii*), great northern sea-feather (*Pennatula borealis*), sponge, a number of star-fish and rocks; from the Grand Banks.

336. Capt. D. E. COLLINS and crew, sch. Gussie Blaisdell. Two species of star-fish (*Hippasteria phrygiana* and *Solaster endeca*), variegated serpent-star (*Ophiopholis aculeata*), sea-cucumbers (*Thyonidium elongatum*), pale sea-orange (*Psolus phantapus*), a bunch of large green barnacles (*Balanus Hameri*), stone barnacles (*Balanus porcatus*, *Balanus crenatus*), and bryozoa (*Caberea Ellisii*); from Western Bank, 45 to 52 fathoms.

337. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Slime-eel (*Myxine glutinosa*), eggs of skate, small crabs (*Hyas*), shrimp (*Axius serratus*, *Hippolyte aculeata*), sea-cucumbers, parasites of cod (*Æga psora*), yellow cake-sponge, sea-mouse, flat sea-urchins, shells, bryozoa (*Escharopsis rosacea*), and hydroids of several species; from George's Bank.

338. Capt. D. O. MURPHY and crew, sch. Alice M. Williams. A long-nosed eel (*Synaphobranchus pinnatus*), three new ruffled sea-roses (*Actinernus nobilis*), soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), yellow cake-sponge, shells, and the base of a great bush-coral (*Primnoa reseda*); from lat. 44° 29' N., long. 57° 9' W., 250 fathoms.

339. Capt. JOHN SHEHAN, boat Ida May. A large lump-fish (*Cyclopterus lumpus*); from Kettle Island, Cape Ann.

340. A. F. HOLBROOK, Swampscott. A large sea-cucumber (*Pentacta frondosa*); from off Cape Cod.

341. Capt. JOHN GOURVILLE, sch. Rebecca Bartlett. Two butter-fish (*Murænoïdes*), a *Liparis* (?), sea-cucumber, pale sea-orange (*Psolus phantapus*), a bunch of stemmed sea-peaches (*Boltenia Bolteni*), with hy-

droids (*Diphasia rosacea*; *Sertularella tricuspidata*, *Sertularella polyzonias* var. *robusta*, *Eudendrium*), and bryozoans attached, and a horse mussel (*Modiola modiolus*); from 25 miles E. S. E. of Sankaty Head, Nantuxet, 21 fathoms.

342. Capt. WILLIAM KIRBY and crew, sch. William V. Hutchings. A large and hitherto unknown fish (*Lopholatilus chamaeleonticeps*), taken on a codfish trawl, in lat. 40° N., long. 70° W., 84 to 110 fathoms.

343. Capt. BRIGGS GILPATRICK and crew, sch. Herbert M. Rogers. Long-nosed eel (*Synaphobranchus pinnatus*), slime-eel (*Myxine glutinosa*), twining serpent-star (*Astrochele Lymani*), Lamarck's basket-fish (*Astrophyton Lamarckii*), yellow cake-sponge, shells, jointed bush-coral (*Acanella Normani*), hydroids (*Lafocia*, *Sertularella tricuspidata*), and warty sea-rose (*Urticina nodosa*), with eggs of an unknown fish attached; from lat. 44° 18' N., long. 58° 24' W., 150 fathoms.

344. Capt. JOHN MCINNIS and crew, sch. M. H. Perkins. A sand-eel (*Ammodytes*), slime-eel (*Myxine glutinosa*), sheet sponge, two star-fish (*Hippasteria* and *Ctenodiscus*), two large flowered sea-feathers (*Virgularia grandiflora*), and a great northern sea-feather (*Pennatula borealis*).

345. Capt. S. W. SMITH and crew, sch. S. R. Lane. Two species of sea-feathers (*Virgularia grandiflora* and *Balticina Finmarchica*), sea-spider, (*Nymphon Strömii*), warty sea-rose (*Urticina nodosa*), worm (*Micrura affinis*), yellow-cake sponge, variegated serpent-star (*Ophiopholis aculeata*), Lamarck's basket-fish (*Astrophyton Lamarckii*), sea-cauliflower (*Alcyonium multiflorum*), star-fish, hydroids (*Lafocia*, *Clytia*), parasites of halibut (*Aega psora*), lamp-shell (*Tercebratulina septentrionalis*), and a long-nosed eel (*Synaphobranchus pinnatus*).

346. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wouson. Seven specimens of great bush-coral (*Primnoa reseda*), large branch of tree coral (*Paragorgia arborea*), Earl's many-rayed star-fish (*Solaster Earllii*), and a long-nosed eel (*Synaphobranchus pinnatus*); from near George's Bank, 250 fathoms.

347. Capt. THOMAS OLSEN and crew, sch. Epes Tarr. Two large pugnosed eels, a long-nosed eel (*Synaphobranchus pinnatus*), jointed bush-coral (*Acanella Normani*), great bush-coral (*Primnoa reseda*), fragment of tree-coral (*Paragorgia arborea*), Finmark sea-feather (*Balticina Finmarchica*) with warty sea-rose (*Urticina nodosa*) attached, great northern sea-feathers (*Pennatula borealis*), spiny sea-feather (*Pennatula aculeata*), three ruffled sea-roses (*Actinernus nobilis*), Lamarck's basket-fish (*Astrophyton Lamarckii*), parasites of halibut, and shells (*Buccinum cyaneum*?); from lat. 43° 18' N., long. 60° 24' W., 250 fathoms.

348. G. H. PROCTER, Gloucester. A small flounder, with both the upper and lower sides nearly white; taken in Squam River by Mr. Simon Merchant.

349. DANIEL MCEACHERN, sch. Guy Cunningham. Specimens of sponge (*Tethya*?), hairy nipple-sponge (*Polymastia*), soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), fringed star-fish

(*Asterias stellionura*), variegated serpent-star (*Ophiopholis aculeata*), Goode's cup-coral (*Flabellum Goodei*), green sea-eggs (*Strongylocentrotus Drübachiensis*), shell (*Anomia aculeata*), lamp-shell (*Terebratulina septentrionalis*), yellow cake-sponge, worms (*Thelepus cincinnatus*, *Spirorbis lucidus*), large tube-worm (*Protula media*), parasites of halibut, stone barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*), and Gasteropod eggs.

350. Capt. PETER HAMLIN and crew, sch. Andrew Leighton. Specimens of the variegated serpent-star (*Ophiopholis aculeata*), large flowered sea-feathers (*Virgularia grandiflora*), great northern sea-feathers (*Pennatula borealis*), jointed bush-coral (*Acanella Normani*), and warty sea-rose (*Urticina nodosa*); from lat. 44° N., long. 59° 3' W., 150 fathoms.

351. M. E. PERKINS, sch. Grace L. Fears, Capt. N. Greenleaf. An undetermined star-fish, three species of star-fish (*Asterias stellionura*, *Otenodiscus crispatus*, and *Hippasteria phrygiana*), eighteen Lamarck's basket-fish (*Astrophyton Lamarckii*), five sea-cauliflowers (*Alcyonium multiflorum*), six warty sea-roses (*Urticina nodosa*), parasites of halibut (*Ægapsora*), two of Baird's devil-fishes (*Octopus Bairdii*), compound ascidian (*Leptoclinum albidum*), small sea-cucumber (*Thyonidium Dubenii*), stemmed sea-peaches (*Boltenia Bolteni*), great felt-sponge (*Phakellia?*), sheet sponge, three species of sea-feathers (*Virgularia grandiflora*, *Pennatula aculeata*, and *Pennatula borealis*), tube-worm (*Vermilia serrula*), shells (*Buccinum cyaneum?*), rocks with bryozoans attached, two slime-eels (*Myxine glutinosa*), and a rare spiny lump-fish (*Eumicrotremus spinosus*) taken from the stomach of a cod; from lat. 44° 17' N., long. 58° 10' W., 110 to 120 fathoms.

352. Capt. GEORGE A. JOHNSON and crew, sch. Augusta Johnson. One large black dogfish (*Centroscymnus cætolepis*), two-horned black dogfish (*Centroscyllium Fabricii*), four grenadiers (*Macrurus Fabricii*), two pug-nosed eels, long-nosed eel (*Synaphobranchus pinnatus*), three fringed star-fish (*Asterias stellionura*), small velvet-star (*Otenodiscus crispatus*), purple velvet-star (*Astrogonium granulare*), two spiny sea-feathers (*Pennatula aculeata*), fragment of Finmark sea-feather (*Balticina Finmarohica*), yellow cake-sponge, hairy cake-sponge (*Trichostemma hemisphæricum*), hairy nipple sponge (*Polymastia*), compound ascidian (*Amoræcium glabrum*), tube-dwelling anemones (*Cerianthus borealis*), jointed bush-coral (*Acanella Normani*), hydroid (*Lafœa*), Iceland scallop (*Pecten Islandicus*), shell (*Anomia aculeata*) and sea-potato (*Ascidia mollis*); from Banquereau.

353. Capt. MATTHEW PARKS and crew, sch. Davy Crockett. Pug-nosed eel, long-nosed eel (*Synaphobranchus pinnatus*), sea-mouse (*Aphrodita*), sea-spider (*Nymphon Strömii?*), great northern spider-crabs (*Chionæetes opilio*), salve bugs, and sea-worms (*Nereis pelagica*); from lat. 44° 28' N., long. 56° 24' W. to 59° 6' W., 170 to 200 fathoms.

354. Capt. JOHN F. CRITCHETT and crew, sch. Commonwealth. Large flowered sea-feather (*Virgularia grandiflora*), great bush-coral (*Primnoa reseda*), and star-fish (*Otenodiscus*); from lat. 44° 26' N., long. 57° 12' W., 150 fathoms.

355. Mr. EVERETT P. WONSON, East Gloucester. A large flowered sea-feather (*Virgularia grandiflora*).

356. MATT. RYAN, sch. Seth Stockbridge. Seven sea-anemones and a great northern sea-feather (*Pennatulula borealis*); from Green Bank.

357. Capt AUGUSTUS CUNNINGHAM, sch. Geo. A. Upton. A sea-mouse (*Aphrodita aculeata*) taken from the stomach of a codfish, off Pubnico, N. S.

358. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. Lump-fish (*Cyclopterus lumpus*), four-bearded rocklings (*Enchelyopus cimbrius*), young dog-fish (*Squalus acanthia*), lant (*Ammodytes*), several species of crabs, sea-mouse (*Aphrodita*), shells, large bunches of stone barnacles (*Balanus porcatus*), finger-sponges (*Chalina*), and rocks covered with sponges, barnacles, shells, bryozoans, and hydroids; from Clark's Bank.

359. Capt. GREENWOOD and crew, sch. Sultana. Stemmed sea-peaches (*Boltenia Bolteni*), great sea-cucumbers (*Pentacta frondosa*), variegated serpent-star (*Ophiopholis aculeata*), hermit-crab, red spider-crab (*Hyas coarctatus*), small lobster, soft coral, yellow cake-sponge, hydroids (*Diphasia rosacea*, *Sertularella tricuspidata*, *Sertularia argentea*), and bryozoa (*Caberea Ellisii*, *Gemellaria loricata*); from Clark's Bank, 80 fathoms.

360. Capt. GEORGE H. CURTIS and crew, sch. Conductor. Two new branching sponges, great club-sponge (*Cladorhiza grandis*), large flowered sea-feathers (*Virgularia grandiflora*), common serpent-star (*Ophiacantha bidentata*), sea-anemones, sea-spiders (*Pycnogonum littorale*, *Nymphon*), hydroids (*Sertularella polyzonias* var. *robusta*), and rocks with rare bryozoans attached.

361. R. H. HURLBURT, sch. Franklin S. Schenck. A large finger-sponge (*Chalina*); from 12 miles off Sankaty Head, Nantucket, 15 fathoms.

362. Capt. WILLIAM HERRICK, sch. Augusta Herrick. A mackerel-midge (*Phycis*, sp.); found on the vessel's deck, after dressing mackerel, in lat. 38° 13' N., long. 73° 56' W.

363. Capt. CHARLES V. MOULTON, sch. Peter D. Smith. Lant (*Ammodytes*), black clams (*Glycimeris siliqua*) taken from the stomach of cod, rare small star-fish (*Leptasterias Grönlandica*), red spider-crabs (*Hyas coarctatus*), stone barnacles (*Balanus porcatus*), and sponges; from Western George's Bank.

364. JOHN I. WILSON, sch. Polar Wave, Captain Gilpatrick. Horned black dog-fish (*Centroscyllium Fabricii*), a small ground-shark (*Centroscymnus caelolepis*), long-nosed eel (*Synaphobranchus pinnatus*), four specimens of bush-corals (*Primnoa reseda* and *Acanella Normani*), fragments of tree-coral (*Paragorgia arborea*), a specimen of *Acanthogorgia armata*, soft coral (*Acyonium carneum*), sea-cauliflower (*Acyonium multiflorum*), a hydroid (*Cladocarpus*), small feather-star (*Antedon Sarsii*), and yellow cake sponge; from lat. 44° 30' N., long. 57° 8' W., 200 fathoms.

365. Capt. THOMAS GOODWIN and crew, sch. Howard. A fine collec-
S. Miss. 59—52

tion of large flowered sea-feathers (*Virgularia grandiflora*), including fourteen specimens of various sizes, two great northern sea-feathers (*Pennatula borealis*), spiny sea-feather (*Pennatula aculeata*), orange cushion-star (*Porania spinulosa*), three other species of star-fish (*Hippasteria*, *Crossaster papposus*, and *Astrophyton*), bryozoa (*Flustra securifrons*), the second specimen recorded from American waters, rare gorgonian (*Anthomastus?*), yellow cake-sponge, rocks and shells covered with corallines, a deformed codfish, eel pout (*Zoarces*), and a rock-eel (*Muraenoides*); mostly from lat. 45° 25' N., long. 57° 10' W., 170 fathoms.

366. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. Goode's cup-coral (*Flabellum Goodei*), soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), Lamarck's basket-fish (*Astrophyton Lamarckii*), compound ascidian (*Leptoclinum albidum*), hairy cake-sponge (*Trichostemma hemisphericum*), and warty sea-roses (*Urticina nodosa*); from lat. 44° 6' N., long. 52° 54' W., 220 fathoms.

367. Mr. McCauley, sch. Wachusett, Capt. John A. McCormack. Two species of sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*), jointed bush-coral (*Acanella Normani*), gold-banded bush-coral (*Keratoisis ornata*), large-flowered coral (*Anthomastus grandiflorus*), warty sea-rose (*Urticina nodosa*), feather-stars (*Antedon Sarsii?*), Lamarck's basket-fish (*Astrophyton Lamarckii*), 6-armed serpent-star (*Ophiacantha anomala*), twining serpent-star (*Astrochele Lymani*), and variegated serpent-star (*Ophiopholis aculeata*). Also sea-cucumbers, scaly-stemmed barnacle (*Scalpellum Strömii*), tube-worms (*Vermilia serrula*, *Spirorbis*), scaly worm (*Eunoa spinulosa*), green sea-egg (*Strongylocentrotus Dröbachiensis*), shells (*Neptuncea despecta*, *Buccinum cyaneum*), clear scallop (*Pecten vitreus*), lamp-shell (*Terebratulina septentrionalis*), two long-nosed eels (*Synaphobranchus pinnatus*), and slime-eel (*Myxine glutinosa*).

368. Capt. JOSEPH W. COLLINS and crew, sch. Marion. The skin and eggs of an enormous ground-shark, weighing over 2,000 pounds, and having a total length of 15 feet. Also a long-nosed eel (*Synaphobranchus pinnatus*), eel-pout (*Zoarces anguillaris*), soft-coral, star-fish (*Ctenodiscus*) and shells; from Banquereau, 190 fathoms.

369. Capt. WILLIAM KIRBY, sch. William V. Hutchings. Two species of star-fish (*Crossaster papposus* and *Solaster endeca*), rare sea-cucumber, pale sea-orange (*Psolus phantapus*), stone barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*), yellow cake-sponge, and a ghost-fish (*Cryptacanthodes*); from lat. 41° 35' N., long. 69° 5' W., 80 fathoms.

370. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wouson. Six specimens of great bush-coral (*Primnoa reseda*), with Lamarck's basket-fish (*Astrophyton Lamarckii*) attached, three basket-star-fish, large green barnacles (*Balanus Hameri*), and shells (*Anomia aculeata*); from near George's Bank.

371. E. F. HOYT, Gloucester. A small sea-bass (*Centropristis*) taken in Wouson & Atwood's weir, off Norman's Woe. This is the first recorded instance of its capture since 1866. Also great felt-sponge (*Phakellia?*).

372. Capt. D. C. MURPHY and crew, sch. Alice M. Williams. Specimens of Hyatt's bob-tailed squid (*Rossia Hyatti*), Baird's devil-fish (*Octopus Bairdii*), a small specimen of cod, small crustacea (*Caprella*, *Astacilla*), hydroids (*Cladocarpus Lafoea*), warty sea-rose (*Urticina nodosa*), shells (*Buccinum cyaneum*), and scaly-stemmed barnacle (*Scalpellum Strömii*); from off Miquelon Islands, 7 fathoms.

373. Capt. SEWELL W. SMITH and crew, sch. S. R. Lane. Two large Lamarck's basket-fishes (*Astrophyton Lamarckii*), common star-fish (*Crossaster papposus*), variegated serpent-stars (*Ophiopholis aculeata*), common serpent-star (*Ophiacantha bidentata*), one-sided star-fish (*Stephanasterias albula*), a sea-spider (*Nymphon*), specimens of *Alcyonium carneum*, and hydroids (*Lafoea*); from off the western coast of Newfoundland, lat. $49^{\circ} 20'$ to $30'$ N., long. $58^{\circ} 10'$ W.

374. Capt. JOHN McINNIS and crew, sch. M. H. Perkins. Two species of star-fish (*Hippasteria phrygiana* and *Asterias stellionura*), and two hairy cake-sponges (*Trichostemma hemisphaericum*); from 8 miles S. S. W. of Ramea Island, Newfoundland, 150 fathoms.

375. Capt. BRIGGS GILPATRICK and crew, sch. Herbert M. Rogers. A specimen of the lancet-mouth (*Alepidosaurus*); taken with a gaff while swimming at the surface, lat. $44^{\circ} 30'$ N., long. $57^{\circ} 13'$ W.

376. Capt. CHARLES V. MOULTON, sch. Peter D. Smith. A sea-robin (*Prionotus*), young dog-fish (*Squalus acanthius*), worms (*Thelepus cincinnatus*, *Spirorbis lucidus*), hydroids (*Diphasia fallax*), and bryozoa (*Gemellaria loricata*, *Cellularia ternata* var. *gracilis*); from Clark's Bank, 80 fathoms.

377. WM. E. PERKINS, sch. Grace L. Fears, Capt. N. Greenleaf. Fringed star-fish (*Asterias stellionura*), cup sponges (*Isodictya*), warty sea roses (*Urticina nodosa*), stemmed sea-peaches (*Boltenia Bolteni*), soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), Lamarck's basket-fish (*Astrophyton Lamarckii*), and variegated serpent-star (*Ophiopholis aculeata*); from 30 miles off Ramea Island, Newfoundland.

378. Capt. JOHN Q. GETCHELL, sch. Otis P. Lord. A small squid, shrimps, sea-anemones, hydroids, crabs, and finger-sponge; from George's Bank.

379. NATHANIEL D. CROOKS, sch. Helen M. Dennis. Eggs of an undetermined mollusk; from the northwest part of George's Bank, 103 fathoms.

380. CHARLES RUCKLEY, sch. William A. Pew. Two bunches of hydroids, pectens, and rocks covered with shells, hydroids, and bryozoans; from George's Bank.

381. Capt. BENJAMIN JOHNSON, sch. Alaska. Two sea-mice (*Aphrodita aculeata*), taken from the stomach of a codfish; from George's Bank.

382. Capt. THOMAS OLSEN and crew, sch. Epes Tarr. A large specimen of a new species of perforated cushion-star (*Tremaster mirabilis*), belonging also to a new genus, and specimens of hydroids (*Cladocarpus cornutus*); taken in lat. $47^{\circ} 6'$ N., long. $58^{\circ} 15'$ W., 150 fathoms.

383. Capt. THOMAS MURPHY and crew, sch. William H. Oakes. A slime-eel (*Myxine glutinosa*), Lamarck's basket-fish (*Astrophyton Lamarckii*), Finmark sea-feather (*Balticina Finmarchica*), eight specimens of the great bush-coral (*Primnoa reseda*), scaly stemmed barnacles (*Scalpellum Strœmi*), and a warty sea-rose (*Urticina nodosa*); from Banquereau, 150 fathoms.

384. Capt. WILLIAM THOMPSON and crew, sch. Magic. Thirteen specimens of capelin (*Mallotus villosus*); from the south shore of Newfoundland. Also a plumed sea-feather (*Virgularia grandiflora*), a jointed bush-coral (*Acanella Normani*), sea-corn, and a large pug-nosed eel; from Banquereau.

385. DANIEL MCEACHERN, sch. Rutherford B. Hayes. A small flying-fish (*Exocoetus*).

386. Capt. JOHN GORMAN and crew, sch. George S. Boutwell. A spotted turbot (*Lophopsetta maculata*), bill-fish (*Scomberesox*), small sea-raven (*Hemitripterus*), hermit-crab (*Eupagurus bernhardus*), shells (*Lunatia heros*, *Crepidula plana*), and a large sea-mouse (*Aphrodita*); from Western Bank.

387. Capt. JOHN CRITCHETT and crew, sch. Commonwealth. Two great spiny spider-crabs (*Lithodes maia*), and two rare deep-water star-fishes; from lat. 47° 7' N., long. 58° 15' W., 150 fathoms.

388. Capt. MICHAEL WELLS and crew, sch. Water Spirit. A purple, many-rayed star-fish (*Solaster endeca*), and a sea-spider (*Nymphon Strœmi*); from Western Bank.

389. Capt. ANDREW NELSON, sch. Carleton. Rock, with barnacles and bryozoans attached; from George's Bank.

390. Capt. JOSEPH W. COLLINS and crew, sch. Marion. A fourteen-pound Norway haddock (*Sebastes*), chimæra (*Chimæra plumbea*), long-nosed eel (*Synaphobranchus pinnatus*), two star-fishes (*Hippasteria* and an undetermined species), rare gorgonian coral (*Paramuricea borealis*), ruffled sea-rose (*Actinernus nobilis*), several sponges, *Alcyonium*, and *Astrophyton*; from Banquereau.

391. Capt. DANIEL MCKINNON and crew, sch. Mary F. Chisholm. A great scarlet cushion-star (*Hippasteria phrygiana*), and a yellow cake-sponge; from Banquereau.

392. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wonson. Eight specimens of great bush-coral (*Primnoa reseda*), jointed bush-coral (*Acanella Normani*), large green barnacle (*Balanus Hameri*), scaly stemmed barnacle (*Scalpellum Strœmi*), tube-worm (*Vermilia serrula*), 6-armed serpent-star (*Ophiacantha anomala*), common serpent-star (*Ophiacantha bidentata*), and a piece of coarse granite; from east of George's Bank, 250 fathoms.

393. Capt. THOMAS GOODWIN and crew, sch. Howard. Three species of star-fish (*Asterias stellionura*, *Solaster endeca*, and *Crossaster papposus*), brittle star (*Ophiuran*), warty sea-rose (*Urticina nodosa*), sea-mouse (*Aphrodita aculeata*), and the pens of several squids; from 10 to 15 miles off N. W. light, Sable Island, N. S.

394. GEORGE FRIEND, Gloucester. Two split and dried specimens of the tile-fish (*Lopholatilus chamaeleonticeps*); brought in by Captain Kirby.
395. ALBERT DOUGLAS, East Gloucester. A web-fingered sea-robin (*Prionotus carolinus*); taken in his fish-weir at Norman's Woe, July 19. This is the first recorded instance of its capture near Gloucester.
396. WILLIAM PEEPLES, sch. Addison Centre. A large rock, with bryozoans attached; from lat. $43^{\circ} 30'$ N., long. $59^{\circ} 50'$ W.; 250 fathoms.
397. JEFFREYS J. LAVENDER, sch. Addison Centre. A fine specimen of spiny bush-coral (*Acanthogorgia armata*); from lat. $43^{\circ} 30'$ N., long. $59^{\circ} 50'$ W., 250 fathoms.
398. Capt. JOHN GOURVILLE and crew, sch. Rebecca Bartlett. Three specimens of a wolf-fish (*Anarrhichas lupus*), a rare holothurian, and a pale sea-orange (*Psolus phantapus*); from lat. $42^{\circ} 50'$ N., long. $65^{\circ} 50'$ W., 85 fathoms.
399. WM. E. PERKINS, sch. Grace L. Fears, Captain Greenleaf. A Baird's grenadier (*Macrurus Bairdii*), taken from the stomach of a halibut; a jointed bush-coral (*Acanella Normani*), with barnacles (*Scalpellum Strömii*) attached, great bush-coral (*Primnoa reseda*), an undetermined hydroid, and sponges; from lat. $44^{\circ} 25'$ N., long. $67^{\circ} 20'$ W., 200 fathoms.
400. GEORGE BROWN, Gloucester. A spotted flounder (*Lophopsetta maculata*), and a small crab (*Hyas coarctatus*); from Gloucester Harbor.
401. Capt. SEWELL SMITH, sch. S. R. Lane. Specimens of a red spider-crab (*Hyas araneus*) and two capelin (*Mallotus villosus*); from Boone Bay, Newfoundland.
402. Capt. MCCORMACK and crew, sch. Wachusett. A fine specimen of the gold-banded bush-coral (*Keratoisis ornata*), large-flowered bush-coral (*Anthothela grandiflora*), large-flowered sponge coral (*Anthomastus grandiflorus*), great northern sea-feathers (*Pennatula borealis*), Finmark sea-feathers (*Balticina Finmarchica*), flesh-colored soft coral (*Aleyonium carneum*), sea-cauliflower (*Aleyonium multiflorum*), great club-sponge (*Cladorhiza grandis*), red sea-rose (*Urticina crassicornis*), warty sea-rose (*Urticina nodosa*), Goode's cup-coral (*Flabellum Goodei*), Ice-land scallop (*Pecten Islandicus*), tube of an unknown worm, a long-nosed eel (*Synaphobranchus pinnatus*), and spiral egg-cases; from lat. $43^{\circ} 17'$ N., long. $60^{\circ} 58'$ W., 180 fathoms.
403. Capt. WILLIAM H. GREENLEAF, sch. Chester R. Lawrence. Jaw of a porpoise caught on the passage from Gloucester to Banquereau.
404. Capt. G. H. CURTIS and crew, sch. Conductor. Specimens of jointed bush-coral (*Acanella Normani*), arm of star-fish (*Crossaster papposus*), small sea-feathers, tube of unknown worm, *Aleyonium*, a fine specimen of the gold-banded bush-coral (*Keratoisis ornata*), large-flowered sponge-coral (*Anthomastus grandiflorus*), and some rocks from the bottom; lat. $44^{\circ} 10'$ N., long. 58° W., 300 fathoms. Also a brook-trout (*Salvelinus fontinalis*) from Newfoundland, and a *Scopelus* washed aboard on the passage.
405. SIMON BOUDROT, sch. Rebecca Bartlett. (Through Capt. John

Gourville.) A specimen of *Chalina*, with *Terebratulina* attached, from 35 miles southeast by south of Cape Sable, lat. $43^{\circ} 5' N.$, long. $65^{\circ} 10' W.$, 85 fathoms.

406. From unknown source. A rock-eel (*Muraenoides gunellus*), 6 $\frac{3}{4}$ inches long, caught at Fort Wharf, Gloucester.

407. Capt. WILLIAM DEMSEY, sch. Clara F. Friend. Nine fresh specimens of the tile-fish (*Lopholatilus chamaeleonticeps*); from 50 miles south by east of No Man's Land, lat. $40^{\circ} 10' N.$, long. $70^{\circ} 55' W.$, 75 fathoms. This is only the second time this species of fish has been brought to Gloucester. The only preserved specimen known is in the U. S. National Museum. Captain Demsey has furnished interesting particulars concerning its structure.

408. Capt. WILLIAM H. KIRBY, sch. William V. Hutchings. Clusters of ascidians with eggs of *Buccinum* attached, Greenland basket-fish (*Astrophyton eucnemis*), rosy, many rayed star (*Crossaster papposus*), Sars's serpent-stars (*Ophioglypha Sarsii*), sea-anemones, green sea-eggs (*Strongylocentrotus Dröbachiensis*), sea-corn (*Buccinum* eggs), holothurian, shells with stone barnacles (*Balanus crenatus*) and flesh-colored soft coral (*Acyonium carneum*) attached, bryozoans, sea-mouse (*Aphrodita*) 6 inches long, eel-pout or mutton-fish (*Zoarces anguillaris*), and a rare blue shark (*Prionodon glaucus*); from lat. $44^{\circ} 28' N.$, long. 59° to $59^{\circ} 20' W.$, 50 fathoms.

409. Capt. EDWARD TREVOY, sch. Procter Brothers. A very large long-nosed eel (*Synaphobranchus pinnatus*), three young pug-nosed eels (*Simenchelys parasiticus*), a lamprey (*Petromyzon*), a scaly worm, and a crustacean (*Munna Fabricii*), crab (*Geryon quinquedens*); from about lat. $43^{\circ} 20' N.$, long. $59^{\circ} 30' W.$, 200 fathoms.

410. Capt. GEO. A. JOHNSON and crew, sch. Augusta H. Johnson. A fine specimen of the spiny bush-coral (*Acanthogorgia armata*) with mollusk and skate eggs attached, jointed bush-coral (*Acanella Normani*), great northern sea-feather (*Pennatulula borealis*), spiny sea-feather (*Pennatulula aculeata*), large flowered sea-feather (*Virgularia grandiflora*), rare star-fish, great club-sponge (*Cladorhiza grandis*), a large grenadier (*Macrurus Fabricii*), a large Norway haddock (*Sebastes marinus*), blue hake (*Haloporphyrus viola*), long-nosed eel (*Synaphobranchus pinnatus*), pug-nosed eel (*Simenchelys parasiticus*), and a chimæra (*Chimæra plumbea*); from Western Bank, lat. $43^{\circ} 15' N.$, long. $60^{\circ} 20' W.$, 200 fathoms.

411. ALBERT DOUGLASS, Gloucester. A large torpedo or cramp-fish (*Torpedo occidentalis*), caught in a trap at Kettle Island, Cape Ann.

412. Capt. R. MORRISON, sch. Laura Nelson. A species of *Fusus* with warty sea-rose (*Urticina nodosa*) attached, isopod (*Idotea*), deep-sea shrimp, worm (*Spirorbis*), a fine specimen of Finmark sea-feather (*Balticina Finmarchica*), large-flowered sponge coral (*Anthomastus grandiflorus*), and shells (*Neptunea Spitzbergensis*); from lat. $44^{\circ} 04' N.$, long. $59^{\circ} 06' W.$, 300 fathoms.

413. WM. COLBY, East Gloucester. Two fresh specimens of Norway

haddock (*Sebastes*), from $3\frac{1}{2}$ miles southeast of Eastern Point, Cape Ann.

414. Capt. AMOS N. RACLIFF, sch. Fleetwing. A rare sucking-fish (*Remoropsis branchyptera*), taken from a sword-fish about 15 miles southeast of Matinicus Rock, coast of Maine.

415. Capt. WM. McDONALD, sch. N. H. Phillips. Specimens of jointed bush-coral (*Acanella Normani*), tree-coral (*Paragorgia arborea*), Earl's many rayed star-fish (*Solaster Earllii*), basket star-fish (*Astrophyton*), Iceland scallops (*Pecten Islandicus*), great northern sea-feather (*Pennatula borealis*), and a skate's egg with small barnacles attached; from lat. $44^{\circ} 4' N.$, long. $59^{\circ} 6' W.$, 300 fathoms.

416. CHARLES RUCKLEY, sch. H. A. Duncan. Specimens of flesh-colored soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), *Æga psora* (parasitic on the halibut), stout devil-fish (*Octopus obesus*) from stomach of halibut, small crustacea (*Caprella*, *Asselodes alta*), warty sea-roses (*Urticina nodosa*), sea-feather (*Pennatula aculeata* and *Balticina Finmarchica*), one-sided star-fish (*Stephanasterias albula*), Lamarck's basket-fish (*Astrophyton Lamarckii*), variegated serpent-star (*Ophiopholis aculeata*), spiny serpent-star (*Ophiacantha spectabilis?*), common serpent-star (*Ophiacantha bidentata*), sponges, jointed bush-coral (*Acanella Normani*), tree-coral (*Paragorgia arborea*), perforated rocks, a quantity of oil made from the livers of Greenland dog-fish (*Centroscyllium Fabricii*), Norway haddock (*Sebastes marinus*) taken from a halibut's stomach, and two specimens of a Greenland grenadier (*Coryphanoides Strömii*) not hitherto discovered in American waters. This collection is from 36 miles east of the northeast light of Sable Island, 160 to 300 fathoms.

417. Capt. THOMAS OLSEN, sch. Epes Tarr. Sea-feathers (*Balticina Finmarchica* and *Pennatula borealis*), warty sea-rose (*Urticina nodosa*), large-flowered sponge-coral (*Anthomastus grandiflorus*), and an undetermined polyp; from lat. $43^{\circ} 20' N.$, long. $60^{\circ} W.$, 220 fathoms.

418. Capt. JAMES NICKERSON, sch. Bellerophon. Specimens of common basket-fish (*Astrophyton Agassizii*), Lamarck's basket-fish (*Astrophyton Lamarckii*), sea-corn (*Buccinum* eggs), ruffled sea-rose (*Actinernus nobilis*), warty sea-rose (*Urticina nodosa*), flesh-colored soft coral (*Alcyonium carneum*), sea-pen (*Pennatula*), brittle stars (*Ophioglypha*), undetermined coral, gold-banded bush-coral (*Keratoisis ornata*), jointed bush-coral (*Acanella Normani*), large-flowered bush-coral (*Anthothela grandiflora*), and blue hake (*Haloporphyrus viola*); from lat. $44^{\circ} 13' N.$, long. $58^{\circ} 2' W.$, 175 fathoms.

419. SAMUEL MCQUIN and CHARLES GERRING, East Gloucester. A French "bill-fish" (*Scombrosox saurus*) that leaped into the dory while they were rowing in Gloucester Harbor.

420. Capt. MELVIN GILPATRICK, sch. Polar Wave. Sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*), Gorgonian or bush-corals (*Acanella Normani* and *Paramuricea borealis*), warty sea-rose (*Urticina nodosa*), a branching sponge, tubes of an unknown worm, and two speci-

mens of the pug-nosed eel (*Simenchelys parasiticus*); from lat. 43° 27' N., long. 60° W., 150 fathoms.

421. Capt. JOHN F. CRITCHETT and crew, sch. Commonwealth. A Baird's devil-fish (*Octopus Bairdii*), fine specimens of Lamarck's basket-fish (*Astrophyton Lamarckii*), brittle star-fish (*Ophioglypha*), tree-coral (*Paragorgia arborea*), one with *Astrophyton* attached, great northern sea-feather (*Pennatula borealis*), and an undetermined hydroid; from the eastern part of Banquereau, 300 fathoms.

422. CHARLES H. MARTIN, East Gloucester. Two black rudder-fish (*Palinurichthys perciformis*) and a hake (*Phycis tenuis*); caught on a hook with clam bait at Parson's wharf, East Gloucester.

423. FRANK MAKER, East Gloucester. A young bonito (*Sarda pelamys*); taken in a weir at East Gloucester.

424. FRANK MAKER, East Gloucester. Specimens of "monk-fish" (*Lophius piscatorius*), "dollar-fish" (*Poronotus triacanthus*), and cod (*Gadus morrhua*), caught in his weir. The other species taken in the same haul were as follows: *Pomolobus astivalis*, *Pomolobus vernalis*, *Pollachius carbonarius*, *Cottus octodecimpinosus*, *Tautoglabrus adpersus*, *Scomber scombrus*, and *Pleuronectes americanus*.

425. Capt. S. J. MARTIN, East Gloucester. Tinker mackerel (*Scomber scombrus*), 3½ to 4¼ inches long; caught with a dip-net in Gloucester Harbor, August 8.

426. Capt. JOS. W. COLLINS and crew, sch. Marion. Several specimens of flesh-colored soft corals (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), gorgonian or bush-corals (*Acanella Normani* and *Keratoisis ornata*), large flowered sponge-coral (*Anthomastus grandiflorus*), Finmark sea-feather (*Balticina Finmarchica*), sponges, ascidians, long-rayed velvet-star (*Archaster Andromeda*), compound ascidian (*Leptoclinum albidum*), tube-dwelling sea-anemone (*Cerianthus borealis*), warty sea-rose (*Urticina nodosa*), brittle stars (*Ophioglypha*), Goode's cup-coral (*Flabellum Goodei*), large scaly stemmed barnacle (*Scalpellum*), lamp-shell (*Terebratulina septentrionalis*), eggs of a skate (supposed to be *Raia granulata*), and a pug-nose eel (*Simenchelys parasiticus*); from lat. 44° 15' N., long. 58° 3' W., 250-300 fathoms. Also, a perfect specimen of the lancet-mouth (*Alepidosaurus ferax*); from lat. 42° 48' N., long. 63° W. 130 fathoms.

427. JOHN SHEAN, Gloucester. Specimen of the sea-mouse (*Aphrodita aculeata*); caught 4 miles south of Eastern Point, Cape Ann, on a trawl.

428. Capt. J. McDONALD, sch. Magic. A specimen of flesh-colored soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), and a Finmark sea-feather (*Balticina Finmarchica*); from lat. 42° 45' N., long. 50° 25' W., 160 fathoms.

429. Capt. JOS. W. COLLINS and crew, sch. Marion. Fresh specimens of black dog fish (*Centroscymnus caelepis*), chimæra (*Chimæra plumbea*), and Canada turbot (*Platysomatichthys hippoglossoides*); from lat. 44° 15' N., long. 58° 52' W., 250-300 fathoms.

430. HENRY COLBY, East Gloucester. A living specimen of the web-fingered sea-robin (*Prionotus carolinus*); caught in a mackerel gill-net in Gloucester Harbor.

431. JOHN SHEAN, Gloucester. A specimen of leaf-sponge taken on a trawl, $3\frac{1}{2}$ miles southeast of Eastern Point, Cape Ann, in about 24 fathoms.

432. Capt. BENJAMIN JOHNSON, sch. Alaska. Two star-fishes, a scaly worm, a halibut parasite (*Aega psora*), a rock-ceil (*Murænooides*), and a blenny (*Eumesogrammus* sp.); from Brown's Bank, 37 fathoms.

433. Capt. JEROME McDONALD, sch. G. P. Whitman. Hermit-crabs (*Eupagurus Kræyeri*), a large scaly worm (*Nephtys paradava*?), sand-lance (*Ammodytes dubius*), and an undetermined species of fish; from lat. $43^{\circ} 30' N.$, long. $60^{\circ} 25' W.$, 50 fathoms.

434. Capt. JOHN MCKINNON and crew, sch. Rutherford B. Hayes. Common basket star-fish (*Astrophyton Agassizii*), common star-fishes (*Crossaster papposus*, *Solaster endeca*, *Otenodiscus crispatus*, and *Asterias*), variegated serpent-star (*Ophiopholis aculeata*), warty sea-rose (*Urticina nodosa*), holothurian, Iceland scallops (*Pecten Islandicus*), eggs of *Buccinum*, large shells (*Neptunea decemcostata*, *Modiola modiolus*), green sea-eggs (*Strongylocentrotus Dröbachiensis*), parasites from the common flat-fish and other species, large green barnacle (*Balanus Hamori*), a small sea-pen (*Pennatula*), a rock-crab (*Cancer irroratus*), tube-worm (*Vermilia serrula*) embryonic "monk-fish" (*Lophius piscatorius*), and a flatfish (*Pleuronectes americanus*); from the western part of Western Bank.

435. Capt. SEWELL W. SMITH and crew, sch. S. R. Lane. Jointed bush-coral (*Acanella Normani*), with variegated serpent-star (*Ophiopholis aculeata*), clear scallops (*Pecten vitreus*), shells (*Anomia aculeata*) and rare scaly stemmed barnacles (*Scalpellum Stræmii*) attached, *Aega psora*, parasitic on halibut, large sea-anemones, small velvet-star (*Otenodiscus crispatus*), Greenland basket-fish (*Astrophyton eucnemis*), Lamarck's basket-fish (*Astrophyton Lamarckii*), scaly worm, sea-feathers (*Balticina Finmarchica*, *Pennatula borealis*, and *Pennatula aculeata*), a lamprey cel (*Petromyzon*), long-nose eel (*Synaphobranchus pinnatus*), and a black dogfish (*Centroscymnus coelolepis*); from lat. $43^{\circ} 25' N.$, long. $60^{\circ} W.$, 180 fathoms.

436. Capt. PETER HAMLIN and crew, sch. Andrew Leighton. A ruffled sea-rose (*Actinernus nobilis*), two specimens of *Acanthogorgia armata*, a long-nosed-eel (*Synaphobranchus pinnatus*), and two fresh chimæras (*Chimæra plumbea*); from lat. $44^{\circ} N.$, long. $58^{\circ} 30' W.$, 160 fathoms.

437. Mr. WILLIAM M. GAFFNEY, Gloucester (through Capt. Jos. W. Collins). A large crayfish, from the New England coast; exact locality unknown.

438. Capt. BENJAMIN JOHNSON, sch. Alaska. A fine specimen of *Chalina*; from Brown's Bank, 57 fathoms.

439. Capt. SAMUEL PEEPLES, sch. Addison Centre. Bryozoans, branching sponge, jointed bush-coral (*Acanella Normani*), large flowered sponge-

coral (*Anthomastus grandiflorus*), gold-banded bush-coral (*Keratoisis ornata*), flesh-colored soft coral (*Alcyonium carneum*), long-rayed velvet-star (*Archaster Andromeda*), Lamarck's basket-fish (*Astrophyton Lamarckii*), sea-cauliflower (*Alcyonium multiflorum*), brittle stars (*Ophioglypha*), sea-corn (*Buccinum* eggs), ascidians, pug-nose eels (*Simenchelys parasiticus*), and a Greenland fish (*Stomias ferox*) not hitherto taken on our coast; from lat. 44° 12' N., long. 58° 56' W., 230 fathoms.

440. Capt. R. MORRISON and crew, sch. Laura Nelson. A great northern sea-feather (*Pennatula borealis*) and a lamprey eel (*Petromyzon*); from lat. 44° 5' N., long. 63° 50' W., 160 fathoms.

441. Capt. JOHN A. MCCORMACK, sch. Wachusett. A large warty sea-rose (*Urticina nodosa*), cluster of barnacles taken at surface, great northern sea-feather (*Pennatula borealis*), and a specimen of warty bush-coral (*Paramuricea borealis*); from lat. 43° 19' N., long. 60° 36' W., 250 fathoms.

442. Capt. G. H. CURTIS and crew, sch. Conductor. A warty sea-rose (*Urticina nodosa*), lamprey eel (*Petromyzon*), long-nose eel (*Synphobranchus pinnatus*), and pug-nose eel (*Simenchelys parasiticus*); from lat. 43° 5' N., long. 61° 3' W., 150 fathoms.

443. J. F. FOWLES, Gloucester, engineer of steamer Geo. H. Bradley. A hydroid and a young lake (*Phycis*) taken at the surface off the coast of Maine; a skull of the dogfish (*Squalus acanthias*) from Pemaquid Beach, a star-fish, young codfish (*Gadus morrhua*), and piece of conglomerate from Pemaquid Bay, Maine; a "parakeet" from Great Egg Rock, Maine; and a specimen of *Squilla* caught off Nearit Light, in Providence River, June 2, 1879, 8 fathoms.

444. Capt. JOS. TUPPER, sch. Madawaska Maid. A large pipe-fish (*Syngnathus*), and a shell (*Buccinum*, sp.); from Townsend Harbor, Maine.

445. Capt. RANDAL PINKHAM, sch. Henry L. Phillips. A fresh cod-fish (*Gadus morrhua*), gray and yellow mottled; caught on the eastern part of George's Bank.

446. Capt. EDWARD TREVOY, sch. Procter Brothers. Specimens of bush-coral (*Acanella Normani*), large scaly stemmed barnacles (*Scalpellum*), skates' eggs, pug-nose eel (*Simenchelys parasiticus*), long-nose eel (*Synphobranchus pinnatus*), lancet mouth (*Alepidosaurus ferox*), and "albicore" (*Oreynus thynnus*?); from lat. 42° 33' N., long. 64° 20' W., 300 fathoms; also a barn swallow which came aboard the vessel at the same locality.

447. Mr. CHARLES RUCKLEY, sch. H. A. Duncan. Specimens of flesh-colored soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), jointed bush-coral (*Acanella Normani*), large flowered sponge coral (*Anthomastus grandiflorus*), parasites (*Æga psora*), branching sponges, sea-feathers (*Balticina Finmarchica*, *Pennatula borealis*, and *Pennatula aculeata*), rare shells (*Buccinum cyaneum*), two rare species of star-fish, long-rayed velvet-star (*Archaster Andromeda*), long-spined

velvet-star (*Archaster tenuispina*), Lamarck's basket-fish (*Astrophyton Lamarckii*), great club-sponge (*Cladorhiza grandis*), eggs of black dog-fish, and spiral egg cases; from the south-central part of Western Bank. Also a bunch of rockweed covered with barnacles from the same place, and a potato dropped overboard one day and found in a halibut's stomach the next.

448. Capt. GEO. A. JOHNSON and crew, sch. Augusta H. Johnson. A rare species of crab, black dog-fish (*Centroscymnus coelolepis*), Greenland dog-fish (*Centroscyllum Fabricii*), lancet-mouth (*Alepidosaurus ferox*), chimæra (*Chimæra plumbea*), mackerel shark (*Lamna cornubica*), skate (*Raia granulata?*), long-nose eel (*Synaphobranchus pinnatus?*), pug-nose eels (*Simenchelys parasiticus*), and a lamprey (*Petromyzon*); from lat. 42° 37' N., long. 62° 55' W., 200 fathoms.

449. Capt. KNUD MARKUSON and crew, sch. Notice. A fine specimen of the lancet-mouth (*Alepidosaurus ferox*), from about the same locality as the preceding.

450. GEORGE SAWYER, East Gloucester. A pipe-fish (*Syngnathus*), caught at Wonson's wharf, Gloucester.

451. Capt. JOHN MCINNIS and crew, sch. M. H. Perkins. A fine specimen of the lancet-mouth (*Alepidosaurus ferox*); from lat. 43° 6' N., long. 61° 18' W., 200 fathoms.

452. GEO. W. SCOTT, sch. Ocean King. Numerous specimens of Lamarck's basket-fish (*Astrophyton Lamarckii*), common star-fish (*Asterias vulgaris*), star-fishes (*Crossaster papposus*, *Astrophyton eucnemis*), Sars's serpent-stars (*Ophioglypha Sarsii*), black clams (*Glycimeris siliqua*), holothurian, sponge, internal parasites of codfish and a sand dab (*Hippoglossoides platessoides*); from Sable Island Bank, 9 miles northeast of the northeast light of Sable Island, 60 fathoms.

453. GEO. W. SCOTT, sch. Ocean King. Basket star-fish (*Astrophyton*), rosy, many-rayed star (*Crossaster pupposus*), fringed star-fish (*Asterias stellionura*), green sea-eggs (*Strongylocentrotus Dröbachiensis*), flesh-colored soft coral (*Alcyonium carneum*), red spider-crabs (*Hyas coarctatus*, *Hyas araneus*), ascidians, Iceland scallops (*Pecten Islandicus*), Greenland round clam (*Serripes Grœnlandica*), and other mollusks, worms (*Aphrodita*, &c.), rock perforated by boring shells and with bryozoans attached, stone barnacle (*Balanus crenatus*), algæ taken from a cod stomach, common flat-fish (*Pleuronectes americanus*), and a "lant" (*Ammodytes dubius?*); from the Grand Banks, Virgin Rock bearing N. E. by N. 30 miles, 40 fathoms, June 25 and 26, 1879; also a sculpin (*Cottus scorpius* subspecies *grœnlandicus*), a rare blenny (*Gymnelis viridis*), male and female capelin (*Mallotus villosus*) and their spawn, and some brook trout (*Salvelinus fontinalis*); from Miquelon Island; also male capelin from Cape Breton, N. S.

454. Capt. JOSEPH W. COLLINS, sch. Marion. A large specimen of the gold-banded bush-coral (*Keratoisis ornata*); from lat. 44° 14' N., long. 58° 3' W., 300 fathoms.

455. JOHN J. RYAN, Gloucester. (Brought in by sch. Madame Roland.) A rock with large green barnacles (*Balanus Hameri*) and sponge attached, and an Iceland scallop (*Pecten Islandicus*); from George's Bank.

456. Capt. JOHN KAVANAGH and crew, sch. Alfred Walen. A large bowlder, with barnacles attached, from George's Bank, 40 fathoms.

457. Capt. THOMAS OLSEN, sch. Epes Tarr. Specimens of jointed bush-coral (*Acanella Normani*), a large shrimp, slime-eel or hag (*Myxine glutinosa*), and long-nose eel (*Synphobranchus pinnatus*); from lat. 43° 10' N., long. 61° 10' W., 250 fathoms.

458. Capt. WM. McDONALD and crew, sch. N. H. Phillips. Specimens of jointed bush-coral (*Acanella Normani*), sea-feathers (*Balticina Finmarchica*, *Pennatula borealis*), a branch of the gold-banded bush-coral (*Keratoisis ornata*), *Aleyonium*, great club-sponge (*Cladorhiza grandis*), great spiny spider-crab (*Lithodes maia*), gastropod eggs, eggs of unknown skate, and a long-nose eel (*Synphobranchus pinnatus*); from Banquereau, 300 fathoms.

459. Capt. MICHAEL WELLS and crew, sch. Water Spirit. A purple, many-rayed star-fish (*Solaster endeca*), perforated rock, needle fish (*Aspidophoroides monopterygius*), and many specimens of the black rudder-fish (*Palinurichthys perciformis*); from Western Bank, lat. 42° 27' N., long. 61° W., 30 to 45 fathoms. The rudder-fish were caught with her-ring bait.

460. Capt. WM. HERRICK, sch. Augusta Herrick. Specimens of young hake (*Phycis*) and dollar-fish (*Poronotus triacanthus*); taken off Nansett, June 13, 1879.

461. Capt. JOHN GOURVILLE and crew, sch. Rebecca Bartlett. A brittle star (*Ophioglypha*), star-fish (*Hippasteria phrygiana*), lamp-shells (*Terebratulina septentrionalis*), *Aporrhais*, *Comatula*, and a Norway had-dock (*Sebastes*); from the eastern part of Le Have Bank, 50 fathoms.

462. Capt. JOHN F. CRITCHETT and crew, sch. Commonwealth. A dollar-fish (*Poronotus triacanthus*) and lump-fish (*Cyclopterus lumpus*); caught about 15 miles off Matinicus Rock, Maine.

463. SILAS JEWETT, sch. Annie E. Lane. A perforated rock and a substance resembling cannel coal, the latter having been taken from a codfish stomach; from northeastern part of Middle Ground, 28 fathoms.

464. SAMUEL KNOWLES, Gloucester. The head of an 82-pound cod-fish (*Gadus morrhua*).

465. Capt. THOS. R. WHARFF, sch. Willie Jewell, Provincetown. Fine specimens of gastropod eggs.

466. Capt. JAMES MORRISEY and crew, sch. Plymouth Rock. A large marine worm, gastropod eggs, young hake (*Phycis*), rock-eel (*Muraenoides*), capelin (*Mallotus villosus*), and sand lance (*Ammodytes*); from the Grand Banks, 45 to 50 fathoms.

467. Capt. JOHN Q. GETCHELL and crew, sch. Otis P. Lord. Specimens of star-fish (*Crossaster papposus*, *Asterius vulgaris*, &c.), Iceland round clams (*Cyprina Islandica*), holothurians, shrimps, crabs, barnacles, *Ega*

psora, brittle stars, hydroids, fish eggs, young red-fish (*Sebastes*), rock-eel (*Muraenoides*), and a mailed sculpin (*Triglops Pingelii*); from George's Bank, 40 to 50 fathoms.

468. EVERETT P. WONSON, East Gloucester. A live striped or garter snake (*Eutania sirtalis*), caught in East Gloucester.

469. Capt. JAMES NICKERSON and crew, sch. Bellerophon. A fine specimen of the great northern sea-feather (*Pennatula borealis*); from Banquereau, 250 fathoms.

470. Capt. FRANK WHEELER and crew, sch. Orient. Perfect specimen of the Gorgonian coral, *Acanthogorgia armata*, and a brittle star; from Banquereau, 250 fathoms.

471. CHARLES D. COOK, Provincetown. A specimen of fossiliferous limestone from the Grand Banks, taken February, 1876.

472. Capt. MELVIN GILPATRICK and crew, sch. Polar Wave. A specimen of jointed bush-coral (*Acanella Normani*), large flowered sponge coral (*Anthomastus grandiflorus*), a compound actinian, fine specimens of sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*) with sea-anemones attached, a finned devil-fish (*Stauroteuthis syrtensis*), a species of *Scopelus*, a sucker or lamprey (*Petromyzon*), and a long-nose eel (*Synaphobranchus pinnatus*); from lat. 43° 54' N., long. 58° 44' W., 250 fathoms.

473. Capt. WILLIAM DAVIS, sch. Shooting Star, Rockport. A sword-fish sucker (*Remoropsis brachyptera*); taken from the gill-cover of a sword-fish, near the Isles of Shoals, Gulf of Maine.

474. GEORGE WILLIAM HOY, sch. Mary F. Chisholm, Capt. Daniel McKinnon. A fine specimen of the tree-coral (*Paragorgia arborea*), 4 feet 6 inches high, 2 feet 6 inches broad, and several of Lamarck's basket-fish (*Astrophyton Lamarckii*); from lat. 43° 54' N., long. 58° 40' W., 250 fathoms.

475. Capt. D. E. COLLINS and crew, sch. Gussie Blaisdell. A specimen of branching sea-corn (eggs of *Buccinum undatum*) 19 inches high, Earll's many-rayed star-fish (*Solaster Earllii*), green sea-eggs (*Strongylocentrotus Dröbachiensis*), ascidian with bryozoans attached, rock with stone barnacles (*Balanus crenatus*), bryozoans, stemmed sea-peaches (*Boltenia Bolteni*), and *Molgula retortiformis* attached; barnacles, large mass of sponge, hydroids (*Lafosa*). The sea-corn came from lat. 46° 40' N., long. 50° W.; the sponge from lat. 45° 12' N., long. 51° 20' W., 40 to 50 fathoms.

476. Capt. GEORGE OLSEN and crew, sch. Willie M. Stevens. Two specimens of the great northern sea-feather (*Pennatula borealis*) several of Lamarck's basket-fish (*Astrophyton Lamarckii*) warty sea-rose (*Urticina nodosa*), large flowered bush-coral (*Anthothela grandiflora*), Earll's many-rayed star-fish (*Solaster Earllii*), *Comatula*, several small brittle star-fish, piece of scaly worm, tube of unknown worm, whelk, large shells (*Neptunca despecta*), clear scallop (*Pecten vitreus*), pug-nosed eel (*Simenchelys parasiticus*), long-nosed eel (*Synaphobranchus pinnatus*), a lamprey (*Petromyzon*), small fish (*Scopelus*) from the stomach of a halibut, a cat-fish (*Anarrhichas latifrons*), a female chimæra (*Chimæra plumbea*) with eggs, and also a male chimæra, and spiral egg-cases; from Banquereau, 250 fathoms.

477. Capt. BRIGGS GILPATRICK and crew, sch. Herbert M. Rogers. Two species of sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*), star-fish, and a long-nose eel (*Synaphobranchus pinnatus*); from Banquereau, 250 fathoms.

478. Capt. NATHANIEL GREENLEAF and crew, sch. Grace L. Fears. Specimens of Lamarck's basket-fish (*Astrophyton Lamarckii*), Finmark sea-feather (*Balticina Finmarchica*), fragment of tree coral (*Paragorgia arborea*), a piece of felt sponge, a perforated rock, and a Norway haddock (*Sebastes marinus*); from Banquereau, 200 fathoms.

479. WILLIAM LURVEY, Gloucester. Specimen of eggs of *Buccinum undatum*.

480. VINAL MCCALED, East Gloucester. A young blue-fish (*Pomatomus saltatrix*); caught with a mackerel hook in Gloucester Harbor, September 16, 1879.

481. Captain CURZON, sch. Mist. Vertebra of a whale, from lat. 47° 20' N., long. 50° W., 48 fathoms.

482. Capt. JOHN MCKINNON and crew, sch. Rutherford B. Hayes. A fringed star-fish (*Asterias stellerionura*), specimens of small velvet star-fish (*Ctenodiscus crispatus*), brittle sea-egg (*Schizaster fragilis*), piece of scaly worm, isopod crustaceans (*Idotea*), several large shrimps (*Pandalus borealis*), stone barnacles (*Balanus porcatus*), lamp-shells (*Terebratulina septentrionalis*), lump-fish (*Cyclopterus lumpus*), a young Norway haddock (*Sebastes marinus*); from lat. 43° 44' N., long. 63° 54' W., 91 fathoms.

483. Capt. S. W. SMITH and crew, sch. S. R. Lane. Specimens of the Finmark sea-feather (*Balticina Finmarchica*), ruffled sea-rose (*Actinernus nobilis*), spiny bush-coral (*Acanthogorgia armata*), with eggs of unknown fish attached, lamp-shells (*Terebratulina septentrionalis*), skate egg, chimæra (*Chimæra plumbea*), slime-eel (*Myxine glutinosa*), and two specimens of the sucker or lamper (*Petromyzon*); from lat. 43° 32' N., long. 60° 21' W., 250 fathoms.

484. Capt. SAMUEL PEEPLES and crew, sch. Addison Center. A great northern sea-feather (*Pennatula borealis*), jointed bush-coral (*Acanella Normani*), deep-sea anemone (*Urticina nodosa*), large whelk with sea-anemones attached, great felt-sponge (*Phakellia*), two long-nosed eels (*Synaphobranchus pinnatus?*), two pug-nosed eels (*Simenchelys parasiticus*); from lat. 43° 42' N., long. 59° 10' W., 300 fathoms.

485. Capt. CHARLES ANDERSON and crew, sch. Alice G. Wonsen. Specimens of star-fish, large shrimps (*Pandalus borealis*), great bush-corals (*Primnoa reseda*), some with barnacles and other animals attached, and two specimens of the rudder-fish (*Palinurichthys perciformis*); from lat. 42° 6' N., long. 63° 15' W., 200 fathoms.

486. Capt. JOHN McINNIS and crew, sch. M. H. Perkins. Specimens of sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*), with warty sea-rose (*Urticina nodosa*) attached, dog-fish eggs, and a piece of rock from 300 fathoms; from lat. 43° 46' N., long. 63° 15' W., 200 fathoms.

487. Capt. PETER HAMLIN and crew, sch. Andrew Leighton. A speci-

men of the lamprey eel (*Petromyzon*); from the eastern part of Banquereau, 150 fathoms.

488. Capt. JAMES McDONALD and crew, sch. Magic. Specimens of jointed bush-coral (*Acanella Normani*), fragment of rock with flesh-colored soft coral (*Alcyonium carneum*) and sponges attached, deep-sea cup-coral (*Flabellum Goodii*), and cup-sponge (*Phakellia*?); from the edge of the Grand Banks, 250 fathoms.

489. WILLIAM A. PEEPLES, sch. Addison Center, Capt. Samuel Peeples. Specimens of the gold-banded bush-coral (*Keratoisis ornata*), jointed bush-coral (*Acanella Normani*), with *Terebratulina septentrionalis* attached, and a fragment of great felt-sponge (*Phakellia ventilabrum*); from lat. 43° 42', long. 59° 8' W., 300 fathoms.

490. Capt. DAVID CAMPBELL and crew, sch. Admiral. A fine specimen of warty bush-coral (*Paramuricea borealis*), Finmark sea-feather (*Balticina Finmarchica*) with sea-anemone attached, flesh-colored soft coral (*Alcyonium carneum*), tube of an unknown worm, a species of *Scopelus*, an unidentified fish from the stomach of a halibut, hag or slime-fish (*Myxine glutinosa*), a lamprey eel (*Petromyzon*), a long-nosed eel (*Synphobranchus pinnatus*), and a cat-fish (*Anarrhichas minor*) 4 feet long; from eastern part of Banquereau, 200 fathoms.

491. Capt. N. MCPHEE and crew, sch. Carl Schurz. A Finmark sea-feather (*Balticina Finmarchica*); warty sea-anemone (*Urticina*), jointed bush-coral (*Acanella Normani*), large flowered sponge-coral (*Anthomastus grandiflorus*), with sea-anemone attached, Lamarck's basket-fish (*Astrophyton Lamarckii*), and a great scarlet cushion-star (*Hippasteria phrygiana*); from the western part of Banquereau, 200 fathoms.

492. Capt. PHILIP MERCHANT and crew, sch. Marion. Specimens of sea-feathers (*Pennatula borealis* and *Balticina Finmarchica*), star-fishes (*Solaster Earllii*, *Solaster endeca*, *Asterias*, *Hippasteria phrygiana*), stones with sea-anemones, sea-cauliflower (*Alcyonium multiflorum*) and sponges attached, a branching sponge, small squid, eggs of skates and of unknown fish adhering to a warty bush-coral (*Paramuricea borealis*), a Baird's grenadier (*Macrurus Bairdii*) taken from the stomach of a halibut, two pug-nosed eels (*Simenchelys parasiticus*), three long-nosed eels (*Synphobranchus pinnatus*), two specimens of blue hake (*Haloporphyrus viola*), a male chimæra (*Chimæra plumbea*), and a skate (*Raja*); from near Banquereau, lat. 44° 2' N., long. 59° W., 325 fathoms.

493. Capt. PHILIP MERCHANT, sch. Marion. Branch of bush-coral (*Paramuricea borealis*); from lat. 44° 2' N., long. 59° W., 300 fathoms.

494. JOHN J. RYAN, Gloucester. A specimen of perforated rock; from George's Bank.

495. JOHN SHEAN, sch. Ida May. Specimens of male and female sea herring (*Clupea harengus*); caught off Norman's Woe, Gloucester Harbor, September 24, 1879.

496. Capt. GEO. H. MARTIN and crew, sch. Northern Eagle. A specimen of the pilot-fish (*Seriola zonata*), with a lump-fish (*Cyclopterus lum-*

pus) and another, undetermined species in its mouth; caught with a dip net in Newport Harbor, R. I., September 5, 1879.

497. Capt. KNUD MAKKUSON and crew, sch. Notice. Specimens of the great northern sea-feather (*Pennatula borealis*), large flowered sea-feather (*Virgularia grandiflora*), flesh-colored soft coral (*Alcyonium carneum*), sea-cauliflower (*Alcyonium multiflorum*), with Lamarck's basket-fish (*Astrophyton Lamarckii*) attached; a rock with *Alcyonium*, sponges, and *Terebratulina septentrionalis* attached; and a fine specimen of grenadier (*Macrurus Fabricii*); from lat. 44° 3' N., long. 58° 26' W., 250 fathoms.

498. CHARLES MARTIN, East Gloucester. A specimen of rock-eel (*Muraenoides gunellus*); caught at East Gloucester, September 25, 1879.

499. Capt. EDWARD TREVOY and crew, sch. Procter Brothers. Stone barnacles (*Balanus porcatus*), large scaly-stemmed barnacles (*Scalpellum*), a ruffled sea-rose (*Actinernus nobilis*), and a horse mackerel or albicore (*Orcynus thynnus*), weighing 400 pounds; from lat. 44° 3' N., long. 58° 26' W., 250 fathoms.

500. Capt. GEORGE H. CORLISS and crew, sch. Conductor. Specimens of bush-coral (*Acanthogorgia armata*), small sea-pens (*Pennatula*), stemmed barnacles (*Conchoderma*), and *Penella*; from lat. 44° 3' N., long. 58° 26' W., 250 fathoms.

501. Capt. D. C. MURPHY and crew, sch. Alice M. Williams. Specimens of jointed bush-coral (*Acanella Normani*) with a ruffled sea-rose (*Actinernus nobilis*) and serpent-star (*Ophiacantha*) attached; gold-banded bush-coral (*Keratoisis ornata*) with sea-corn, ophiuran, clear scallop (*Pecten vitreus*), and lamp-shells (*Terebratulina septentrionalis*) attached; great northern sea-feather (*Pennatula borealis*), sea-anemone, scaly worm (*Eunoa spinulosa*), sabelloid worm, Baird's devil-fish (*Octopus Bairdii*), shark's egg, and a pug-nosed eel (*Simenohelys parasiticus*); from lat. 43° 14' N., long. 61° 7' W., 250 fathoms.

502. Capt. GEORGE A. JOHNSON and crew, sch. Augusta H. Johnson. Seven specimens of the grenadier (*Macrurus Fabricii*), Baird's grenadier (*Macrurus Bairdii*), and a bill-fish or skip jack (*Scombrecox saurus*); from lat. 44° 3' N., long. 58° 26' W., 250 fathoms.

503. JOS. E. HOLBROOK and crew, sch. Jennie P. Phillips, of Swampscott. A cramp-fish or torpedo (*Torpedo occidentalis*), weighing 250 pounds; caught 10 miles south of Gloucester Harbor, September 26, 1879.

504. J. B. GOLDSMITH, Rockport. Specimens of fungus (*Phallus impudicus*); from Rockport.

505. Capt. WILLIAM McDONALD and crew, sch. N. H. Phillips. A fine specimen of great bush-coral (*Primnoa reseda*), with basket star-fish attached; a nipple-sponge (*Polymastia*), warty sea-rose (*Urticina nodosa*), scaly worm, grenadier (*Macrurus Fabricii*), and a rare fish (*Lycodes Fahlii*), the third specimen taken on the United States coast; from lat. 44° 32' N., long. 59° W., 225 fathoms.

506. Capt. THOMAS OLSEN and crew, sch. Epes Tarr. A pug-nosed eel (*Simenohelys parasiticus*), from lat. 43° 48' N., long. 59° W., 300 fath-

oms; and a lump-fish (*Cyclopterus lumpus*), from Liverpool Harbor, Nova Scotia.

507. Capt. GILMAN GILPATRICK, sch. Seth Stockbridge. Stones with sponges, bryozoa (*Tubuliporia simplex*?, *Porella rosacea*), and corals attached, and a red spider-crab (*Hyas coarctatus*); from Banquereau, 250 fathoms.

508. THOMAS MCKINNON, Gloucester. A spotted sand flounder (*Lophopsetta maculata*).

509. Capt. JOHN Q. GETCHELL and crew, sch. Otis P. Lord. Specimens of rock-crabs (*Cancer irroratus*), halibut, parasites (*Aega psora*), hydroids (*Sertularella polyzonias* var. *robusta*), shells (*Saxicava rugosa*, *Modiola modiolus*, *Anomia aculeata*), nipple sponge (*Polymastia*), sea-cucumber (*Thyonidium elongatum*), stone barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*), great scallop (*Pecten tenuicostatus*), stemmed sea-peach (*Boltenia Bolteni*), bryozoa (*Caberea Ellisii*), and a young striped sea-robin, (*Prionotus evolans*); from the eastern part of George's Bank, 50 fathoms.

510. Capt. JOHN MCKINNON and crew, sch. Rutherford B. Hayes. A hook with petrified bait, large shrimp, crab (*Cancer*), unidentified fish from the stomach of a cod, slime-fish (*Myxine glutinosa*), eel (*Zoarces*), and silver hake or whiting (*Merluccius bilinearis*); from lat. 42° 58' N., long. 69° 14' W., 46 fathoms.

511. SAMUEL G. WONSON, sch. John S. McQuin. Samples of the food of mackerel (*Scomber scombrus*); taken during the summer months off the coasts of Maine and Massachusetts.

512. Capt. MICHAEL WELLS, sch. Water Spirit. A great spiny spider-crab (*Lithodes maia*), from 15 miles southeast of Seguin, Me.

513. Capt. BRIGGS GILPATRICK and crew, sch. Herbert M. Rogers. Earl's many-rayed star-fish (*Solaster Earllii*), lamprey (*Petromyzon*), a pug-nosed eel (*Simenchleys parasiticus*), rudder-fish (*Palinurichthys per-ciformis*), lancet-mouth (*Alepidosaurus ferox*), and twenty-five young dog-fish (*Centroscymnus celolepis*), each 6 inches long, and taken from the parent; from lat. 42° 46' N., long. 63° 18' W., 200 fathoms.

514. Capt. SAMUEL PEEPLES and crew, sch. Addison Center. A twin-gilled eel (*Synaphobranchus pinnatus*); from lat. 42° 41' N. long. 62° 58' W., 150 fathoms.

515. LEWIS McDONALD, North Haven, Me. A large perforated rock covered with crustaceans and hydroids; found by the sch. Nevada, Capt. B. L. Tracey, in North Bay, 17 fathoms.

516. GEO. W. SCOTT, sch. Mary Story. Specimen of stone barnacles (*Balanus porcatus*), large green barnacle (*Balanus Hameri*), scallops (*Pecten vitreus* and *Pecten tenuicostatus*), horse mussel (*Modiola modiolus*), bank clam (*Cyrtodaria siliqua*), *Anomia aculeata*, cockles, gastropod eggs, crabs (*Hyas* and *Cancer*), hermit crabs, parasites (*Aega psora*), nipple sponge (*Polymastia*), coral, star-fish (*Asterias*), variegated serpent-stars (*Ophiopholis aculeata*), hydroids (*Sertularia tricuspidata*, *Ser-*

tularia argentea), bryozoa (*Tubulipora simplex?* *Bugula Murrayana*, *Discopora ventricosa*, *Aleyonidium rubrum*), scaly worm, sand eel (*Ammodytes americanus*), dollar-fish (*Argyreosus vomer*), Norway haddock (*Sebastes marinus*), and two fine specimens of albicore, or horse mackerel (*Orcynus thynnus*); from lat. 41° 58' N., long. about 66° 30' W., 45 fathoms. Also several blue crabs (*Callinectes hastatus*), spotted sand flounders (*Lophopsetta maculata*), and American sole (*Achirus lineatus*), from Providence River, R. I.; and a small bluefish (*Pomatomus saltatrix*), from Vineyard Sound.

517. CHARLES RUCKLEY, sch. Electric Flash. Specimens of amphipods, common northern squid (*Ommastrephes illecebrosus*), lump-fish (*Cyclopterus lumpus*), dollar-fish (*Argyreosus vomer*), young hake (*Phycis*), spotted flounder (*Lophopsetta maculata*), stickleback (*Gasterosteus aculeatus*), a small fish (*Phycis*, sp.), and mackerel stomachs; from off Seguin, Me., about 50 fathoms.

518. Capt. JOHN GOURVILLE and crew, sch. Rebecca Bartlett. Stone barnacles (*Balanus porcatus*), and a cat-fish (*Anarrhichas lupus*); from lat. 42° 10' N., long. 66° 30' W., 50 fathoms.

519. Capt. NATHANIEL GREENLEAF and crew, sch. Grace L. Fears. Specimens of bush-corals (*Acanella Normani* and *Acanthogorgia armata*), tree-coral (*Paragorgia arborea*), large flowered sponge-coral (*Anthomastus grandiflorus*), red sea-rose (*Urticina crassicornis*), lamp-shells (*Terrebratulina septentrionalis*), amphipods, hydroids, variegated serpent-stars (*Ophiopholis aculeata*), Lamarck's basket-fish (*Astrophyton Lamarckii*), scallops (*Pecten vitreus*), scaly worm, twin-gilled eel (*Synaphobranchus pinnatus*), and a pug-nosed eel (*Simenichelys parasiticus*); from lat. 43° 48' N., long. 59° W., 250 fathoms.

520. FRANK WILLIAMS, through Procter Brothers, Gloucester. Specimen of bill-fish (*Scombrox saurus*); caught in Squam River, October 15, 1879.

521. EDWARD F. HOYT, Gloucester. A specimen of pipe-fish (*Syngnathus*).

522. Capt. OSCAR W. ALDEN and crew, sch. Andrew Leighton. A rock with crustaceans attached, and a ruffled sea-rose (*Actinernus nobilis*); from lat. 43° 30' N., long. 59° 42' W., 325 fathoms.

523. Capt. S. W. SMITH and crew, sch. S. R. Lane. A sea-feather (*Balticina Finmarchica*), sea-cauliflower (*Aleyonium multiflorum*), flesh-colored soft coral (*Aleyonium carneum*), Lamarck's basket-fish (*Astrophyton Lamarckii*), shark's egg, specimens of lamprey eels (*Petromyzon*), twin-gilled eel (*Synaphobranchus pinnatus*), and blue hake (*Haloporphyrus viola*); from lat. 43° 41' N., long. 59° 15' W., 200 fathoms.

524. DAVID SAWYER, sch. Constitution. Ovaries of a blue shark; from Middle Bank.

525. Capt. W. H. GREENLEAF and crew, sch. Chester R. Lawrence. Branches of tree-coral (*Paragorgia arborea*), and of the gold-banded

bush-coral (*Keratoisis ornata*); from the eastern part of Banquereau, 250 fathoms.

526. Capt. GEO. OLSON and crew, sch. Willie M. Stevens. Warty sea-rose (*Urticina nodosa*), Goode's cup-coral (*Flabellum Goodei*), sponge, compound ascidian (*Amoræcium glabrum*), variegated serpent-star (*Ophiopholis aculeata*), sea-worm, sabelloid worm, rudder-fish (*Palinurichthys perciformis*), pug-nosed eel (*Simenchelys parasiticus*), wolf-fish (*Anarrhichas*), and leopard-fish (*Anarrhichas minor*); from lat. 43° 52' N., long. 59° 9' W., 200 fathoms.

527. Capt. JOHN MCKINNON and crew, sch. Rutherford B. Hayes. A mackerel stomach taken from the stomach of a haddock, and two small unidentified fish found swimming near the surface; in lat. 42° 53' N., long. 69° 14' W., 46 fathoms.

528. Capt. CHAS. ANDERSON and crew, sch. Alice G. Wonson. A fine specimen of the great bush-coral (*Prinnoa reseda*), ascidian (*Pyrosoma*), scaly worm (*Eunoa spinulosa*), small red star-fish, velvet-star (*Poramia*) and a tubular, sponge-like structure 18 inches long; from lat. 42° 6' N., long. 65° 35' W., 200 fathoms.

529. CHARLES WILSON, Gloucester. Eggs of unknown mollusk; from Providence River, Rhode Island.

530. Capt. JOHN MCINNIS and crew, sch. M. H. Perkins. Great northern sea-feather (*Pennatula borealis*), Flora's velvet-star (*Archaster Flora*), fishermen's devil-fish (*Octopus piscatorum*), sucker or lamprey (*Petromyzon*), and a lancet-mouth (*Alepidosaurus ferox*), from the western part of Le Have Bank, 120 fathoms.

531. Capt. CHARLES MURPHY and crew, sch. Alice M. Williams. Sea-rose (*Urticina nodosa*), polyps, variegated serpent-stars (*Ophiopholis aculeata*), scallops (*Pecten vitreus*), and a great northern sea-feather (*Pennatula borealis*); from the "Stone Fence," lat. 44° 27' N., long. 57° 14' W., 190 fathoms.

532. Capt. MEDEO ROSE and crew, sch. Hiram Powers. A fine specimen of Norway haddock (*Sebastes marinus*); from Jeffrey's Bank, Gulf of Maine, 45 fathoms.

