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II

CATALOG OF MOLLUSCA
OF
SOUTH CAROLINA

BY

WILLIAM GAILLARD MAZÏCK

Honorary Curator of Conchology in the Charleston Museum

Division of Mollusks
Sectional Library

CHARLESTON, S. C.

1913

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BY

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1913

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INTRODUCTION

Laborers in the field of conchological research in South Carolina have not been numerous and the few who have been so engaged have published but little, preferring with marked liberality to transfer the riches of their collections to others for specific diagnosis and illustration. The earliest mention which I have of the name of a South Carolinian in connection with this branch of zoological study is in June, 1821, when Say,¹ in his note following the description of his *Bulimus mutilatus*, says: "I am indebted for it to the researches of Mr. Stephen Elliott, of Charleston, who informs me that it is there found in gardens." I am not positive that Mr. Elliott possessed a collection, but presume that he did, as Rafinesque mentions having "furnished several specimens to my friends, Elliott," and others; but Say repeatedly acknowledges his indebtedness to him for specimens from our coast and from Florida and Mexico, among them the "very remarkable shell," *Delphinula laxa*, "sent to me for examination by the late Mr. Stephen Elliott of Charleston, who found but a single specimen on Sullivan's Island," which for more than sixty years remained a puzzle to students, who assigned it doubtfully to some half dozen genera of univalves, until Mr. Charles A. White apparently conclusively identified it with *Exogyra arietina* Römer.²

Conspicuous among our early students was Dr. Edmund Ravenel, from the treasures of whose splendid collection were taken the types of many of the species of the pioneers, Say, Lea, Conrad, Binney, and others. In later years Dr. Ravenel commenced the publication of descriptions of some new forms of his own discovery, but this work was interrupted by the War Between the States, and because of his failing health and almost total blindness was never resumed. Two catalogs of his collection

¹ *Jour. Phil. Acad. Nat. Sci.*, II, 373.

² Fossil Ostreidae of N. A. in the 4th Ann. Rept. U. S. Geological Survey, pl. 56, f. 3-7.

were published; the first, issued in 1834, was the first catalog of this nature published in this country. The second, edited by Prof. Lewis R. Gibbes, appeared in 1874. Dr. Ravenel's collection, which has suffered greatly from neglect, has been given to the Charleston Museum and is now undergoing careful revision.

The first and best list of the recent shells of our state was made by Prof. Lewis R. Gibbes in the appendix to Tuomey's *Geology of South Carolina*, published in 1848. Most of the species enumerated were in his own excellent cabinet, which is now owned by the University of South Carolina at Columbia.

In 1860 Lieut. J. D. Kurtz U. S. A. published a *Catalogue of the Recent Marine Shells found on the Coasts of North and South Carolina*, which he had mainly "collected during the years 1848 to 1852" while he was stationed at Fort Johnson, Charleston Harbor. Several new species were enumerated by him, many of which were published in conjunction with Dr. William Stimpson, who also made some important collections in Charleston Harbor and the immediate vicinity.

Prof. Francis S. Holmes was most zealous and painstaking in his labor of love in developing the riches of our local fauna in every division of the animal kingdom. I have elsewhere cited the admirable expression by Agassiz of his "unbounded admiration of the skilful and successful labors" of Professor Holmes during the first fourteen months of his administration as curator of the old Museum of the College of Charleston, and no future sketch of the zoological, botanical, and especially paleontological work done in this state can fail to give high honor to his splendid activity and enthusiasm.

Dr. William Hume, for several years professor of chemistry at the South Carolina Military Academy ("The Citadel") had a small collection, as had also Miss A. M. Annelly, which latter, I think, had more of an aesthetic than a scientific value.

Dr. J. P. Barratt of Abbeville and Bishop Stephen Elliott of Georgia, son of the botanist mentioned above, contributed largely of the spoils of their labor, especially in the streams of the upper counties, to the great work of Dr. Isaac Lea on the

family of the Naiades, and Bishop Elliott also to the exhaustive studies of Mr. Thomas Bland and the Binneys, father and son, of our native terrestrial species.

It was my great good fortune to enjoy for many years an intimate friendship with that courtly gentleman of the old school, Dr. Ravenel, my conchological patron saint, who guided my boyish footsteps into an enchanted region where I have found beauty and sweet companionship and joy for more than half a century. In the genial and generous Professor Holmes I found a most sympathetic helper in my later study, and in the years of my later manhood the deep learning and ready assistance, which he held during his long and useful life ever at the disposal of every student, were the source of lasting obligation to Professor Gibbes.

Beyond the limits of our state came valued help and encouragement in many ways from Messrs. Thomas Bland, William G. Binney, John G. Anthony, Dr. James Lewis, and others, but acknowledgement is especially due to Dr. W. H. Dall, of the United States National Museum, for willing assistance in the determination of critical species, and for reading the present manuscript before publication.

The references used in this catalog are, in addition to the lists of Professor Gibbes and Lieut. Kurtz, and the catalogs of Dr. Ravenel mentioned above, mainly Dr. Dall's Marine Mollusks of the Southeastern Coast of the U. S., *Bulletin* 37, U. S. National Museum, Washington, 1889; his Blake Mollusca, *Bulletin of the Museum of Comparative Zoology*, volume 18, Harvard, 1889; and his List of Marine Mollusca, *Bulletin* 24, U. S. Geological Survey, Washington, 1885; and Mr. Henry W. Turner's List of Mollusca in the Hand Book of the State Board of Agriculture of South Carolina, 1883. Bibliographical data for all references will be found on page 33 in the List of Works cited.

In listing the Unios I have followed the conclusions of Simpson's Synopsis of the Naiades, Washington, 1900. I have paid but little attention to this family and so am unable to give much information regarding the frequency of occurrence of the several species in this state.

In the following catalog I have mentioned only such species as have been actually found within the geographical limits of the state. The species unmarked are either in my own collection or have passed under my personal inspection. Those marked with an asterisk (*) are admitted on the authority cited. The exclamation point (!) indicates localities where I have personally collected the species referred to.

Most unfortunately the labels of the only large collections beside my own to which I have had access, namely those of the Charleston Museum, the Ravenel collection, and the Gibbes collection now owned by the State University at Columbia, are in such a condition as to be unreliable so far as the definite localities at which the specimens were collected is concerned, yet it is hoped that closer study of them will enable me to erase the asterisk in many instances.

None of our local students have given any attention to a study of the Nudibranchiata, and possessing myself no adequate knowledge of the order, I have deemed it best to exclude it from the catalog.

I desire to acknowledge especially the assistance of Miss Laura M. Bragg, of the Charleston Museum, in verifying references, in preparing the manuscript for the press, and in correcting proof.

W. G. M.

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CATALOG OF MOLLUSCA OF SOUTH CAROLINA

Class CEPHALOPODA

Order DIBRANCHIATA

Suborder OCTOPODA

Family POLYPODIDAE

1. **Polypus granulatus** Lam. (*Octopus* Lam.) Rare. Charleston Harbor.

Suborder DECAPODA

Family LOLIGINIDAE

2. **Loligo brevipinna** Le Sueur. Occasionally taken by fishermen in shrimp nets.

3. ——— **brevis** Blainv.* (Turner '83, p. 298.)

4. ——— **gahi** Orb. A fine specimen of a very large squid, provisionally referred to this species, measuring nearly 18 inches over the mantle and 4 feet to tip of arms, was found stranded on the beach at the Isle of Palms (Long Island) March 15, 1911, by Messrs. Fred L. Lineberger and V. L. Fulmar. It is now in the Charleston Museum.¹

5. ——— **pealii** Le Sueur.* (Le Sueur '21, p. 92.)

Family SPIRULIDAE

6. **Spirula australis** Pils. Occasional on beaches after southeasterly gales.

Class GASTROPODA

Subclass ANISOPLEURA

Superorder EUTHYNEURA

¹ Spec. No. 4228.

Order OPISTHOBRANCHIATA

Suborder TECTIBRANCHIATA

Family ACTEONIDAE

7. *Acteon punctostriatus* C. B. Ad. Rare. Sullivan's Island.

Family TORNATINIDAE

8. *Acteocina canaliculata* Say. Common.
9. ——— *oryza* Totten.* (Kurtz '60.)

Family AKERATIDAE

10. *Haminea solitaria* Say. Very rare.

Family APLYSIIDAE

11. *Tethys protea* Rang.? Rather uncommon.

Order PULMONATA

Suborder BASOMMATOPHORA

Superfamily AKTEOPHILA

Family AURICULIDAE

12. *Melampus lineatus* Say. Common in salt marshes.
13. ——— *obliquus* Say.* "Coast of South Carolina, Mr. Stephen Elliott" (Say '21, p. 377). The identity of this species is undetermined.
14. *Alexia mysotis* Mont. One specimen, Sullivan's Island, 1893!
15. *Tralia* sp.* "Charleston Harbor, Stimpson" (Binney '65, pt. 2, p. 16).
16. *Carychium exiguum* Say. Rare. Goose Creek! Cooper River, Dr. Ravenel.
17. *Blauneria heteroclita* Mont.* "Charleston, S. C.? Dr. Foreman" (Binney '59, p. 176).

Superfamily LIMNOPHILA

Family LIMNAEIDAE

18. *Limnaea columella* Say. Cooper River, Dr. Ravenel.
19. ——— *desidiosa* Say. Sullivan's Island.

20. ——— *humilis* Say. Alexander Street, Charleston, 1866! Sullivan's Island.
21. ——— *macrostoma* Say. Cooper River! Fine examples near Pee Dee River Bridge, Cheraw, 1864!
22. ——— *obrussa* Say, var. Cooper River!
23. *Planorbis glabratus* Say. Santee Canal, Dr. Ravenel.
24. ——— *lentus* Say. Grove, Cooper River, Dr. Ravenel.
25. ——— *trivolis* Say. Cooper River at Mulberry Castle!
26. ——— *tumidus* Pfr.* "Yemassee" (Henderson '07, p. 8).
27. ——— (*Menetus*) *exacuus* Say. Rare. Grove, Cooper River, Dr. Ravenel.
28. ——— (*Gyraulus*) *alabamensis* Pils. Hayfield Farm near Charleston! Grove, Cooper River, Ravenel collection.
29. ——— ——— *deflectus* Say. Rare, Otranto!
30. ——— ——— *dilatatus* Gld. Not common. Near Charleston!
31. ——— ——— *parvus* Say.* Yemassee, coll. Bryant Walker, Detroit, Mich.

Family ANCYLIDAE

32. *Ancylus parallelus* Hald. One specimen, Hayfield Farm near Charleston, A. H. MazÛck.
33. ——— *peninsulae* Pils. Not uncommon. Otranto!

Family PHYSIDAE

34. *Physa cubensis* Pfr. Otranto!
35. ——— *gyrina* Say. Common. Cooper River.
36. ——— *heterostropha* Say. Cooper River.
37. ——— *pomilia* Con.* Spartanburg, coll. Bryant Walker, Detroit, Mich.

Suborder STYLOMMATOPHORA

Superfamily DITREMATA

ORTHURETHRA

Family PUPIDAE

38. *Strobilops labyrinthica* Say. Rare. Drayton Hall, 1904! Stateburg, Sumter County, 1910! Otranto, 1911!

39. *Pupoides marginatus* Say. Common everywhere.
 40. *Bifidaria contracta* Say. Rather uncommon. Charleston! Berkeley County!
 41. ——— *corticaria* Say.* (Binney '85, p. 330.) (Pilsbry '98, p. 19.)
 42. ——— *pentodon* Say. Not common. Sullivan's Island! Berkeley County!
 43. ——— *procera* Gld. Rare. Sullivan's Island!
 44. ——— *rupicola* Say. Common. Charleston County!
 45. *Vertigo ovata* Say.* (Gibbes '48.)
 46. ——— *rugosula* Sterki. Rare. Sullivan's Island!

Family VALLONIIDAE

47. *Vallonia pulchella* Müll.* (Gibbes '48.)

HETERURETHRA

Superfamily ELASMOGNATHA

Family SUCCINEIDAE

48. *Succinea aurea* Lea.* "Yemassee" (Henderson '07, p. 8)
 49. ——— *avara* Say. Rare. Berkeley County!
 50. ——— *campestris* Say. Common on eastern end of Sullivan's Island. Very fine examples clinging to walls of sally port, Fort Sumter!
 51. ——— ——— var. *inflata* Lea. Rare. Sullivan's Island!
 52. ——— *retusa* Lea* (*ovalis* Say). (Gibbes '48.)

SIGMURETHRA

Superfamily AULACOPODA

Family ZONITIDAE

53. *Omphalina fuliginosa* Griff. Rare. One young shell, Greenville, 1879!
 54. ——— *inornata* Say. Rare. Saluda Falls, 1879! Seneca, 1883!
 55. ——— *laevigata* Pfr. Not uncommon. Berkeley County.
 56. ——— *subplana* Binn. Rare. Saluda Falls, 1879!

57. *Vitrea cellaria* Müll.* "Charleston, S. C." (Pilsbry '98, p. 25, no. 258).
58. ——— *hammonis* Ström.* "South Carolina" (Baker '02, p. 181).
59. ——— *indentata* Say. Rather common.
60. ——— *rhoadsi* Pils. Rare. Berkeley County! Williamsburg County!
61. *Euconulus fulvus* Drap. Rather rare. St. John's Berkeley, Dr. Ravenel. Drayton Hall, 1904! Dean Hall, Cooper River, 1912!
62. *Zonitoides arboreus* Say. Common.
63. ——— *minusculus* Binn. Very common.
64. *Gastrodonta cerinoidea* Anth. Rare. Near Charleston!
65. ——— *cuspidata* Lewis. One specimen, Saluda Falls, 1879!
66. ——— *elliotti* Redf. Not common. Walhalla, 1879!
67. ——— *gularis* Say. Rather rare. Saluda Falls and Seneca, 1883!
68. ——— *interna* Say. Not uncommon in the mountains.
69. ——— *intertexta* Binn. Rather common.
70. ——— ——— var. *carinata*. Common.
71. ——— ——— var. *major*. Williamsburg County, 1863; diam. maj. 19 mm.!
72. ——— *ligera* Say. Rather common.
73. ——— *suppressa* Say. Abundant.

Family LIMACIDAE

74. *Limax flavus* Linn. Very common in Charleston.
75. *Agriolimax campestris* Binn. Not uncommon.

Family PHILOMYCIDAE

76. *Philomycus carolinensis* Bosc. Not uncommon.

Family ENDODONTIDAE

77. *Pyramidula alternata* Say. Not common. Aiken.
78. ——— *perspectiva* Say. Not uncommon in the mountains. Sumter County!
79. *Helicodiscus parallelus* Say (*lineatus* Say). Common.

Superfamily AGNATHOMORPHA

Family GLANDINIDAE

80. *Euglandina truncata* Gmel. Common. The finest specimens I have found were taken from the walls of a rifleman's pit at the Schuetzenplatz near Charleston.

Family CIRCINARIIDAE

81. *Circinaria concava* Say. Not common.

Superfamily HOLOPODA

Family STENOGYRIDAE

82. *Rumina decollata* Linn. Extremely abundant in Charleston, gradually extending through the state. I have found it in Aiken, Beaufort, and on Sullivan's Island and have received it from Columbia.

83. *Opeas micra* Orb. Rare. Charleston.

84. ——— *subula* Pfr. Abundant in an extremely restricted locality at Bennett's Mill, Charleston. (Mazýck '88, p. 211.)

Family HELICIDAE

85. *Helix* (*Pomatia*) *aspersa* Müll. Abundant in the churchyards in lower wards of Charleston.

86. ——— (*Macularia*) *lactea* Müll.* "Two species [specimens] found on Beach at Sullivan's Island, quite fresh" (Ravenel '74, p. 39).

87. *Helicella* (*Trochula*) *terrestris* Pennant. Logan Street, Charleston!

88. ——— (*Cochlicella*) *ventricosa* Drap. Common. Sullivan's Island! Beaufain St., Charleston, Miss M. L. Webber; Montague St., Charleston, Miss Marion Mazýck. Not previously recorded nearer than the Canary Islands, Azores, and Bermuda. So far found only on Sullivan's Island and in Charleston. (Mazýck '97, p. 105-6.)

89. *Polygyra albolabris* Say. Rather common in upper counties.

90. ——— var. **major** Binn. Two remarkably fine specimens from Ladson's Plantation, Santee River, given me by Dr. Edmund Ravenel, 1863.
91. ——— **andrewsae** W. G. Binn. Rare. Caesar's Head!
92. ——— **appressa** Say. Common in the mountains. Columbia, Miss Marion MazÏck, 1909.
93. ——— **auriculata** Say.* (Gibbes '48.)
94. ——— **auriformis** Bld. Rare. St. John's, Berkeley, Dr. Ravenel.
95. ——— **barbigera** Redf.* Calhoun Falls, coll. Bryant Walker, Detroit, Mich.
96. ——— **cereolus** Muhlf., var. St. Lawrence Cemetery, Charleston.
97. ——— **espiloca** Rav. Common. Sullivan's Island!
98. ——— **exoleta** Binn.? One specimen, Seneca!
99. ——— **fallax** Say (*introferens* Bld.). Spartanburg, C. H. Drayton, 1874. White Pond, Miss Childs.
100. ——— **hirsuta** Say Rare. Oconee County!
101. ——— **hopetonensis** Shuttl. Abundant.
102. ——— var. **charlestonensis** n. var. Rather uncommon.

This variety differs from the ordinary form of *hopetonensis*, in being much more depressed and only about two-thirds its diameter. The upper tooth of the peristome is proportionately broader and more like that of *P. vultuosa* in shape. A specimen from Charleston, submitted to Mr. Thomas Bland some thirty years ago, was returned by him labelled "*Triodopsis hopetonensis*?? NO. T. B." Others from St. Helena's Churchyard, Beaufort, were returned by Dr. Pilsbry with the suggestion that the form was at least worthy of varietal distinction.

103. ——— **inflecta** Say. Rare.
104. ——— **lawae** Lewis. Rare. White Pond, Miss Childs.
105. ——— **obstricta** Say.* (Binney '85, p. 286.)
106. ——— var. **carolinensis** Lea.* "Near Cheraw" (Lea '34, p. 102).
107. ——— **postelliana** Bld. Rather common.
108. ——— **pustula** Fer. Rather rare. Old Rifle Range, Charleston! Mt. Pleasant!

109. ——— *rugeli* Shuttl. Rare. Oconee County, 1879!
 110. ——— *stenotrema* Fer. Spartanburg, C. H. Drayton,
 1874. My cabinet.
 111. ——— *thyroides* Say. Common.
 112. ——— ——— var. *bucculenta* Gld. Common.
 113. ——— *tridentata* Say. Not common. Near Aiken,
 Miss H. Horlbeck. My cabinet.
 114. ——— *vannostrandii* Bld. Common. Aiken! State-
 burg!
 115. ——— *vultuosa* Gld. Rare. Walhalla!
 116. ——— *wheatleyi* Bld. Rare. Caesar's Head!

Superorder STREPTONEURA

Order CTENOBRANCHIATA

Suborder ORTHODONTA

Superfamily TOXOGLOSSA

Family TEREBRIDAE

117. *Terebra* (*Oxymeris*) *concava* Say (*clavata* Rav.).
 Rather rare.
 118. ——— ——— *dislocata* Say. Abundant.

Family TURRITIDAE

119. *Drillia eloantha* Rav.* "Stomachs of fish off Charles-
 ton Bar; three specimens found" (Ravenel '61, p. 44).
 120. ——— *ostrearum* Stearns (*emblema* Rav.). "Stomach
 of fish off Charleston Bar, S. C., rare" (Ravenel '74, p. 19).
 121. ——— *planilira* Rav.* "On algae, Sullivan's Island"
 (Ravenel '74, p. 19).
 122. ——— sp. Like *ebenina* Dall. Stomach of fish off
 Charleston Bar. Ravenel collection.
 123. *Mangilia cerina* K. & S. Rather rare.
 124. ——— *plicosa* C. B. Ad. Rare.

Family CANCELLARIIDAE

125. *Cancellaria reticulata* Linn. Rare.

Superfamily RACHIGLOSSA

Family OLIVIDAE

126. *Oliva litterata* Lam. Common.
 127. *Olivella mutica* Say. Common.

Family MARGINELLIDAE

128. *Marginella guttata* Dill.* (Turner '83, p. 300.)
 129. ——— *limatula* Con.* (*Fide* Stimpson MS.)
 130. ——— *roscida* Redf. Not common.
 131. ——— *spilota* (Rav. MS.) n. sp.

Shell ovate, polished, ashy-white with about 40 round orange-colored spots nearly 1 mm. in diameter; spire sunken, showing a little more than three volutions; aperture narrow, curved, channelled above and deeply notched below; outer lip white, thickened within, but perfectly smooth, showing no trace of denticulation, developed into a well-marked varix which extends beyond the spire; inner lip heavily callous, with a conspicuous lump above, and eight strong, transverse plaits separated by wide deep grooves, the lower one twisted downwards, and the upper one obsolete. Length, 15 mm. Breadth, 10 mm.

This very distinct and beautiful shell was first mentioned in Professor Gibbes' List in Tuomey's Geology of South Carolina with the notation "not yet described." Strangely enough it is not named in either of Dr. Ravenel's catalogs, but Kurtz lists it with the reference "Gibbes' Cat. N. & S. C." Redfield, in his catalog of the family Marginellidae, says: "*M. spilota* Ravenel, of Catalogues, is an unpublished, hence unknown species." Fortunately, I have discovered the original specimen in the Ravenel collection, now in the Charleston Museum,² with two interesting labels, one reading simply "*Marginella, Persicula, spilota*, Rav. Beach, Sulliv. Island, So. Carol.," the other, "*Marginella spilota* Rav. Sullivan's Island. In thirty years I have found two specimens exactly alike. One I sent to Dr. Gould for examination and he gave it to Mr. Agassiz to return to me— and I have ———" the last word is illegible, and a line has been run through the name *Marginella*. The species belongs to the section *Persicula*.

²Spec. No. 15001.

132. ——— *virginiana* Con. Rare. Stomach of fish off Charleston Bar.

Family VOLUTIDAE

133. *Maculopeplum junonia* Hwass. While preparing this catalog, I have been greatly surprised to note that no mention is made in either edition of the catalog of the collection of Dr. Edmund Ravenel of the very rare *Scaphella junonia* Hwass, but the shell is in the Ravenel collection now in the Charleston Museum. Dr. Ravenel told me in 1868 or 1869 that his Sullivan's Island specimen had been drawn by Audubon on one of the plates of our shore birds for his great work on the Birds of North America. A recent search for this figure has located it on plate CCCXCIX in company with *Sterna havellii* Aud., one of our local gulls. No mention is made by Audubon of this shell. As the figure seems to have escaped the notice of students, this note may not be without interest. There is a fragment of *M. junonia* from our coast in the Gibbes collection at the University of South Carolina, Columbia, S. C. Professor Gibbes includes it in his excellent list in the appendix to Tuomey's Geology of South Carolina, most probably on the authority of Dr. Ravenel.³

134. *Aurinia gouldiana* Dall.* "Off South Carolina" (Dall '89b, p. 155).

Family MITRIDAE

135. *Mitra granulosa* Lam.* (Turner '83, p. 301.)

136. *Fasciolaria distans* Lam. Common.

137. ——— *gigantea* Kiener. Rare. I have seen specimens from Waccamaw nearly 2 feet long.

138. ——— *tulipa* Linn. Rather rare.

139. *Busycon canaliculatum* Linn. Common.

140. ——— *carica* Linn. Common.

141. ——— *eliceans* Montf.* (Dall '89a, p. 112.)

142. ——— *perversum* Linn. Less common than *canaliculatum* and *carica*. A fine specimen in my collection from Pawley's Island is 11 inches long.

143. ——— *plagosum* Con.

³ Gibbes '48, p. xxiv.

144. ——— *pyrum* Dill. Rather common.

Family BUCCINIDAE

145. *Buccinum aspretum* Rav.* "N. sp.? Stomach of fish off Charleston Bar, S. C." (Ravenel '74, p. 11).

146. ——— *undatum* Linn.* "Charleston H." (Dall '89a, p. 114).

147. *Chrysodomus islandicus* Linn.* (Dall '89a, p. 114.)

148. ——— *pubescens* Ver.* (Dall '89a, p. 114.)

149. *Liomesus stimpsoni* Dall.* (Dall '89a, p. 114.)

150. *Pisania* n. sp.* "Distinct from *Nephela*. Stomach of fish off Charleston bar" (Ravenel '74, p. 8).

151. *Cantharus cancellaria* Con. One specimen, Sullivan's Island, 1893.

152. ——— *tincta* Con. (*nephela*, Rav. MS.). Not common. Jetties, Charleston Harbor.

153. *Strongylocera unicincta* Say.* (Say '25b, p. 211.) "The South Carolina habitat assigned by Say was doubtless accidental or erroneous" (Dall '89b, p. 178).

Family NASSIDAE

154. *Alectrion acuta* Say. Not common.

155. ——— *consensa* Rav.* (Ravenel '61, p. 43.)

156. ——— (*Tritia*) *trivittata* Say. Common.

157. ——— (*Hebra*) *vibex* Say. Common.

158. *Ilyanassa obsoleta* Say. Extremely abundant

Family COLUMBELLIDAE

159. *Anachis avara* Say. Common.

160. ——— ——— var. *similis* Rav. Not common.

161. ——— ——— var. *translirata* Rav. Not common.

162. ——— *iontha* Rav.* "A single specimen obtained from the stomach of a blackfish off Charleston Bar" (Ravenel '61, p. 43).

163. ——— *obesa* C. B. Ad. (*ornata* Rav.). Frequent.

164. *Astyris duclosiana* Orb.* (Dall '89b, p. 190.)

165. ——— *lunata* Say. Common.

166. ———— var. *spizantha* Rav. Rather rare.
 167. ———— *raveneli* Dall* (*nivea* Rav. non Sow.). "A single specimen was taken from the stomach of a fish off Charleston Bar" (Ravenel '61, p. 43).

Family MURICIDAE

168. *Murex* (*Chicoreus*) *brevifrons* Lam.* (Dall '89b, p. 198.)
 169. ———— (*Phyllonotus*) *fulvescens* Sow. (*spinicostata* Val.). One very fine specimen in my collection from Pawley's Island. Worn (fossil?) specimens not uncommon on beaches.
 170. ———— *pomum* Gmel. Not common. Pawley's Island, Dr. F. Peyre Porcher.
 171. *Eupleura caudata* Say. Common.
 172. *Urosalpinx cinereus*. Say. Abundant. I have found many fine examples in Colonial Lake, Charleston.
 173. *Purpura dubia* Stimp.* "n. sp." (Kurtz '60).
 174. ———— *haemastoma* Linn., var. *floridana* Con. Frequent. Jetties, Sullivan's Island.

Superfamily STREPTODONTA

Family SCALIDAE

175. *Epitonium angulatum*. Say (*turbinata* Con.). Rather common.
 176. ———— *elliotti* n.sp. Rare.

Shell small, white, slender, tapering to an acute apex; whorls eight, which, with the exception of the nuclear ones, are densely covered with microscopic spiral lines and crowded, sharp varices, of which there are thirty on the body whorl; sutures deep; aperture oval with an almost imperceptible expansion of the columellar lip at the base; umbilicus none. Length a little more than 8 mm. Pawley's Island, W. St. J. Mazýek, 1885.

This exquisitely delicate and beautiful shell, of which I have seen but the single specimen in my collection, differs from any other species known to me by the great number of its very fine and crowded varices. It is only about two-thirds the length of *E. multistriata* Say of the same number of whorls, and the latter of this size has only one-half the number of varices. *E. apiculata*

Dall has "the interspaces on the last two whorls quite smooth;" in our shell they are densely microscopically striate. Dr. Dall's species, too, has but ten varices on the last whorl.

I have named our shell in honor of Stephen Elliott, the botanist, Say's friend and correspondent.

- 177. ——— **lineatum** Say. Not common.
- 178. ——— **multistriatum** Say. Common.
- 179. ——— **permodestum** Dall. Rare. Sullivan's Island.
- 180. ——— **rupicola** Kurtz.* "Fort Johnson, S. C." (Kurtz '60).
- 181. ——— **sayanum** Dall. Common.
- 182. ——— **scipio** Dall.* "Near Frying Pan Shoals" (Dall '89b, p. 310).

Superfamily GYMNOGLOSSA

Family EULIMIDAE

- 183. **Eulima conoidea** K. & S. Rather common.
- 184. ——— **intermedia** Cantraine (*oleacea* K. & S.). Rare.

Family PYRAMIDELLIDAE

- 185. **Pyramidella crenulata** Holmes. Rare.
- 186. **Turbonilla interrupta** Totten. Not common.
- 187. ——— **kurtzii** n.sp. Rare.

Shell small, slender, aciculate, pale brownish white; whorls about twelve, very slightly convex, with about thirty rounded ribs extending from just below the suture above quite to the suture below, which disappear on the anterior portion of the body whorl; suture well marked; on the center of each whorl there are three equidistant deeply incised revolving lines, interrupted by the ribs, and just above the suture there is another equally incised line which is doubled on the last whorl, the lower one disappearing in the suture; the base of the shell is rounded and shows exceedingly faint traces of very fine revolving lines; aperture suboval, columella straight; pillar lip somewhat reflected and forming a slight umbilical chink; parietal wall covered with a callous deposit. Length about 10 mm. Diam. 1.5 mm.

A single imperfect specimen of this shell was found on the beach at Sullivan's Island. The nuclear whorls are lost and the

outer lip is fractured but the sculpture distinguishes it from any species known to me. It belongs to the subgenus *Pyrgiscus*.

188. ——— *multicostata* C. B. Ad.* (Dall '89a, p. 128.)
 189. ——— (*Dunkeria*) *suturalis* Gld.* (Dall '85, p. 110.)
 190. *Odostomia acutidens* Dall. One specimen. Sullivan's Island!
 191. ——— *bisuturalis* Say.* "Fort Johnson, S. C." (Kurtz '60).
 192. ——— *equalis*?* "Charleston, S. C." (Kurtz '60).
 193. ——— *impressa* Say. Abundant on oysters.
 194. ——— *seminuda* C. B. Ad. Quite rare.
 195. ——— *spirata* K. & S.* (Turner '83, p. 300.)
 196. ——— *textilis* Kurtz.* "Fort Johnson, S. C." (Kurtz '60).
 197. ——— *trifida* Totten. Very rare. Sullivan's Island!
 198. ——— sp. "Between *trifida* and *impressa*" (Dall). Very rare. Sullivan's Island!
 199. ——— (*Chrysallida*) *curtina* Gld.* (Dall '85, p. 76.)

Superfamily TAENIOGLOSSA

Family CASSIDIDAE

200. *Cassis flammea* Linn.* (Kurtz '60.)
 201. ——— (*Semicassis*) *inflata* Shaw. Not common.

Family DOLIIDAE

202. *Dolium galea* Linn. Not uncommon.
 203. *Pyrula papyratia* Say.* (Kurtz '60.)

Family AMPHIPERASIDAE

204. *Simnia acicularis* Lam. Frequent on *Gorgonia*.
 205. ——— (*Neosimnia*) *intermedia* Sow. One specimen, Sullivan's Island, L. E. Hendricks, 1893, my cabinet.
 206. ——— ——— *uniplicata* Sow.* (*Ovula carolinensis* Mörch). (Dall '85, p. 211.)

Family CYPRAEIDAE

207. *Erato maugeriae* Gray. "Stomach of fish off Charleston Bar, one specimen" (Ravenel '74, p. 22).

Family STROMBIDAE

208. *Strombus alatus* Gmel.* (Gibbes '48.)

Family TRIFORIDAE

209. *Triforis nigrocincta* C. B. Ad. One specimen, Creighton's Creek, Charleston, 1881!

Family CERITHIOPSIDAE

210. *Seila terebralis* C. B. Ad. Rather rare. On oysters at Truesdale's, Sullivan's Island!

211. *Cerithiopsis greenii* C. B. Ad. Rare. Truesdale's, Sullivan's Island! Ravenel collection.

212. ——— *subulata* Mont. (*emersonii* C. B. Ad.). Rare. Charleston!

Family CERITHIIDAE

213. *Cerithidea costata* Wood. One specimen, Pawley's Island, C. H. Drayton.

214. ——— *scalariformis* Say. Rather rare.

Family VERMETIDAE

215. *Vermicularia spirata* Phil. (*radicula* Stimp.). Occasionally found on beaches.

Family CAECIDAE

216. *Caecum gibbesii* Stimp.* "Long Island" (Kurtz '60).

217. ——— *glabrum* Mont. One specimen, Sullivan's Island!

Family LITORINIDAE

218. *Litorina irrorata* Say. Abundant in salt marshes.

Family LITIOPIIDAE

219. *Litiopa bombyx* Kien. One specimen, Isle of Palms (Long Island)!

Family RISSOIDAE

220. *Rissoa cretacea* Stimp.* (Kurtz '60.)

221. ——— *modesta* Stimp.* "Fort Johnson" (Kurtz '60).

222. ——— *mortoni* Kurtz.* "Fort Johnson" (Kurtz '60).

223. ——— *patens* Gld.* (Dall '85, p. 253.)

224. ——— *sp.** (Kurtz '60.)

225. *Skenea cornea* Stimp.* (Kurtz '60.)

Family ASSIMINEIDAE

226. *Assiminea pupoidea* K. & S.* "Fort Johnson" (Kurtz '60).

227. ——— *turricula* H. C. Lea.* (Dall '05, p. 452.)

Family AMNICOLIDAE

228. *Amnicola* *sp.** "Spring Hill Reserve, St. Thomas Parish" (Ravenel '74, p. 30).

229. *Gillia altilis* Lea. Santee Canal, Charleston Museum collection.

Family VIVIPARIDAE

230. *Vivipara contectoides* W. G. Binn.* (Binney '65, pt. 3, p. 24.)

231. ——— *georgiana* Lea.* (Binney '65, pt. 3, p. 28, 30.)

232. ——— *intertexta* Say. Not common.

233. *Campeloma decisa* Say. Common.

234. ——— *integra* Say. Less common than *decisa*.

235. ——— *lima* Anth.* (Anthony '60, p. 70.)

Family PLEUROCERIDAE

236. *Pleurocera luteum* Lea* (*carolinensis* Lea). (Lea '62c, p. 273.)

237. ——— *strictum* Lea.* (Lea '62c, p. 272.)

238. ——— *vanuxemii* Lea.* (Lea '62a, p. 175.)

239. *Goniobasis abbevillensis* Lea.* "Abbeville District" (Lea '62b, p. 268).

240. ——— *acutocarinata* Lea. Abundant. Saluda Falls!

241. ——— *caelatura* Con.* "Savannah River" (Conrad '49, p. 154).

242. ——— *carinifera* Lam. Common.

243. ——— *catenaria* Say. Common.

244. ——— *cinerea* Lea.* (Lea '62b, p. 265.)

245. ——— *conradi* Brot* (*symmetrica* Con.). (Conrad '49, p. 155.)
 246. ——— *gracillima* Anth.* (Anthony '60, p. 62.)
 247. ——— *pallescens* Lea.* (Lea '62b, p. 265.)
 248. ——— *proxima* Say.* "Catawba River, Chester District" (Say '25a, p. 126).
 249. ——— *spartanburgensis* Lea.* (Lea 62b, p. 265.)
 250. ——— *symmetrica* Hald.* (*barrattii* Lea). (Lea '62b, p. 271.)

Family CALYPTRAEIDAE

251. *Calyptraea candeana* Orb. Rare. Isle of Palms (Long Island)!
 252. *Crepidula aculeata* Gmel. Occasionally found on the beaches.
 253. ——— *convexa* Say. Common.
 254. ——— *fornicata* Linn. Very common.
 255. ——— *unguiformis* Lam. Abundant in dead shells of *Busycon* and *Neverita*.

Family NATICIDAE

256. *Natica canrena* Linn. I have two very fine examples taken on Sullivan's Island and the Isle of Palms (Long Island).
 257. ——— *pusilla* Say. Not uncommon.
 258. *Polynices* (*Neverita*) *duplicata* Say. Abundant. A specimen from the Isle of Palms (Long Island) in my collection measures $3\frac{3}{4}$ inches in diameter.
 259. *Sinum carolinum* Cuv.* (Dall '85, p. 267.)
 260. ——— *maculatum* Say. Very rare. My collection, from stomach of a blackfish (*Serranus nigricans* Cuv.), Charleston Bar. One specimen, Gibbes collection.
 261. ——— *perspectivum* Say. Abundant.

Superfamily RHIPIDOGLOSSA

Family TROCHIDAE

262. *Calliostoma euglyptum* A. Ad. One specimen, Isle of Palms (Long Island)!

263. *Margarita bicarinata* Kurtz.* "Fort Johnson" (Kurtz '60).

264. *Umbonium parvum* Stimp.* (Kurtz '60.)

265. *Cochliolepis parasitica* Stimp. Very rare. Sullivan's Island! Lives under the scales of a large annelid (*Aphrodite*).

Family LIOTIIDAE

266. *Liotia gemma* Tuomey & Holmes (*tricarinata* Stearns). Very rare. Sullivan's Island!

Family CYCLOSTREMATIDAE

267. *Cyclostrema zacalles* n. sp.

Shell minute, white, solid; whorls four, with rather distant strong spiral rounded ridges, the last one disappearing into the small deep umbilicus; of these ridges there are two on the penultimate whorl, and seven or eight on the body whorl. Radiating sculpture of fine, close, sharp, somewhat oblique threads which cross the spiral ridges. Aperture very oblique; lip sinuous. Diam. max. about 1.6 mm. Alt. 1.4 mm.

This exquisite little shell bears some resemblance in general outline to Dr. Dall's *Cyclostrema turbinum* as figured in the Blake Mollusca, plate 33, fig. 6. It differs greatly in the sculpture, which in that species consists of about 22 spiral cinguli on the body whorl, full three times as many as in *zacalles*; *C. turbinum* is also a much larger shell. Our shell is apparently nearer to *C. granulum* Dall, but differs from that species also both in size and sculpture. Dr. Dall, to whose critical judgment specimens have been submitted, regards it as a new species.

Five specimens have been collected. All were found in 1912 in sand sifted from a sponge (*Hercania campana*?) picked up on the Isle of Palms (Long Island), near the entrance of Charleston Harbor, and are now in my cabinet and those of the Charleston Museum⁴ and the United States National Museum.

Superfamily ZYGORANCHIA

Family FISSURELLIDAE

268. *Fissuridea alternata* Say. Common.

⁴Spec. No. 15002.

Subclass ISOPLEURA

Order POLYPLACOPHORA

Superfamily MESOPLACOPHORA

Family ISCHNOCHITONIDAE

269. *Trachydermon albus* Linn. One specimen, Pawley's Island!
270. *Chaetopleura apiculata* Say. Rather rare. Sullivan's Island! Kiawah River!

Class SCAPHOPODA

Order SOLENOCONCHA

Family DENTALIIDAE

271. *Dentalium callipeplum* Dall.* (Dall '89a, p. 76.)
272. ——— *gouldii* Dall.* (Dall '89a, p. 76.)
273. ——— *leptum* Bush. One specimen, Sullivan's Island!
274. ——— *modicellum*.* (Kurtz '60.)
275. *Cadulus* sp. Rare. Isle of Palms (Long Island)!

Class PELECYPODA

Order PRIONODESMACEA

Suborder FOLIOBRANCHIATA

Superfamily NUCULACEA

Family NUCULIDAE

276. *Nucula proxima* Say. Common.

Family LEDIDAE

277. *Leda acuta* Con. Not common.
278. *Yoldia limatula* Say.* (Turner '83, p. 304.)

Suborder FILIBRANCHIATA

Superfamily ARCACEA

Family ARCIDAE

279. *Arca occidentalis* Phil.* (Kurtz '60.) (Turner '83, p. 304.)

280. ——— (*Barbatia*) *barbata* Linn.* "Fossil?" (Kurtz '60).

281. ——— (*Noëtia*) *limula* Con.* (Turner '83, p. 304.)

Conrad describes this species as a Miocene fossil.

282. ——— ——— *ponderosa* Say. Common.

283. ——— (*Scapharca*) *incongrua* Say. Abundant.

284. ——— ——— *lienosa* Say. Pawley's Island! Fossil?

285. ——— ——— *transversa* Say. Common.

286. ——— (*Argina*) *campechensis* Gmel. (*americana* Reeve).

287. ——— ——— *holmesii* Kurtz.

288. ——— ——— *pexata* Say. Very common.

289. ——— (*Fossularca*) *adamsii* E. A. Smith. Not common. Sullivan's Island!

290. *Glycymeris pectinatus* Gmel. (*charlestonensis* Holmes). Rare. Sullivan's Island!

291. ——— *undatus* Linn. Rare.

292. ——— sp. "near *pennaceus* Jun. Miocene fossil?"
Dall. Sullivan's Island, single valve only!

Superfamily PTERIACEA

Family PINNIDAE

293. *Atrina rigida* Dill. Abundant.

294. ——— *serrata* Sby. Abundant.

Family MELINIDAE

295. *Pedalion* sp.* (Kurtz '60.)

Family PTERIIDAE

296. *Pteria colymbus* Bolten. Not common.

Superfamily OSTRACEA

Family OSTREIDAE

297. *Ostrea equestris* Say. Common. Usually attached to *Gorgonia*.

298. ——— *fundata* Say. Common.

299. ——— *triangularis* Holmes.* "Edisto River" (Holmes '59, p. 29).

300. ——— *virginica* Gmel. Abundant.

301. ——— ——— var. *elongata* Sol. (*procyon* Holmes).
Common.

Superfamily PECTINACEA

Family PECTINIDAE

302. *Pecten gibbus* Linn* (*concentricus* Say). (Turner '83, p. 304.)

303. ——— ——— var. *dislocatus* Say. Not common.

304. ——— *nodosus* Linn.* (Turner '83, p. 304.)

Family SPONDYLIDAE

305. *Plicatula cristata* Lam. A few odd valves found on beaches.

306. ——— *depressa* Lam.* (Turner '83, p. 304.)

307. ——— *gibbosa* Lam. Not common. Isle of Palms (Long Island).

Family LIMIDAE

308. *Lima inflata* Lam. One valve, Sullivan's Island!

309. ——— *scabra* Born.* (Turner '83, p. 304.)

Superfamily ANOMIACEA

Family ANOMIIDAE

310. *Anomia ephippium* Linn. Common.

311. ——— *simplex* Orb. "Fossil?" (Turner '83, p. 304).

312. ——— *aculeata* Gmel.? Rather rare.

313. *Pododesmus rudis* Brod.? Rare. Wreck of Housatonic, Charleston Harbor!

314. *Placunanomia plicata* T. & H.* "Harbor of Charleston" (Tuomey & Holmes '57, p. 19).

Superfamily MYTILACEA

Family MYTILIDAE

315. *Mytilus attenuatus* Desh.* (Gibbes '48.)

316. ——— *carolinensis* Con.? Not common.

317. ——— *cubitus* Say. Common.
 318. ——— *domingensis* Lam.* (Gibbes '48.)
 319. ——— *exustus* Lam. Fairly common.
 320. ——— *hamatus* Say. Not common.
 321. *Modiolus americanus* Leach. Not uncommon.
 322. ——— *castaneus* Say (*ligneus* Rve.). Rather uncommon.
 323. ——— *tulipus* Linn. Rather common.
 324. ——— (*Brachydontes*) *plicatulus* Lam. Abundant.
 325. ——— (*Gregariella*) *opifex* Say. One specimen. Isle of Palms!
 326. ——— (*Botula*) *cinnamomea* Lam. Not common.
 327. *Lithophaga appendiculata* Rav.* (Ravenel '74, p. 55.)
 328. ——— *attenuata* Desh.* (Gibbes '48.)
 329. ——— *bisulcata* Orb. One specimen, burrowing in coral, Pawley's Island, W. St. J. Mazýck.
 330. ——— *caudigera* Lam.* (Gibbes '48.)
 331. ——— *forficata* Rav. Rare. Sullivan's Island!
 332. ——— *lithophaga* Linn.* (Gibbes '48.)
 333. *Crenella* sp. Near *C. megas* Dall, Sullivan's Island, one valve!
 334. *Modiolaria lateralis* Say. Rather common.
 335. *Congeria leucopheata* Con. Rare. Sullivan's Island!

Superfamily NAIADACEA

Family UNIONIDAE

336. *Lampsilis cariosus* Say.* "Edgefield" (Simpson '95, p. 123).
 337. ——— *constrictus* Con.
 338. ——— *delumbis* Con. Ravenel collection.
 339. ——— *dolabraeformis* Lea.* "Savannah River" (Simpson '95, p. 529).
 340. ——— *minor* Lea.* "Edisto River, three specimens" (Simpson '00, p. 425).
 341. ——— *modioliformis* Lea. Santee Canal. Ravenel collection.
 342. ——— *nasutus* Say. Ravenel collection.

343. ——— **ochraceus** Say (*crocatius* Lea). Cooper River, Ravenel collection.
344. ——— **ogeecheensis** Lea.* Coll. Bryant Walker, Detroit, Mich.
345. ——— ——— var. **prevostianus** Lea.* Coll. Bryant Walker, Detroit, Mich.
346. ——— **paulus** Lea.* Edisto River, coll. Bryant Walker, Detroit, Mich.
347. ——— **pullus** Con.* "Sawney's Creek" [near Camden] (Jay '50, p. 64).
348. ——— **radiatus** Gmel.* (Ravenel 34, p. 6.)
349. ——— **sudus** Lea* (*concavus* Lea). "Abbeville County" (Lea '53, p. 260).
350. ——— **taeniatus** Con.* (Gibbes '48.)
351. ——— **tenerus** Rav. MS. Santee Canal, St. John's, Berkeley, Ravenel collection. This shell was first mentioned by Dr. Ravenel in the catalog of recent shells in his cabinet, in 1834, but no description was ever published by him. The recent discovery of two specimens in the Ravenel collection now owned by the Charleston Museum with the names written in the shells in Dr. Ravenel's handwriting seems to solve all doubt concerning the species and set at rest the guess work of students of the North American Naiades. The shell is very close to *Lampsilis ogeecheensis* Conrad (*prevostianus* Lea), and is about midway between that species and *L. modioliformis* Lea, and may best be considered a variety of the former. The shell is thin, smooth, rather inflated, very inequilateral, with small rounded beaks; epidermis yellowish brown, rayed with green; shorter, broader and more ventricose than typical *modioliformis* in same collection.
352. ——— **vanuxemensis** Lea.* Edisto River, coll. Bryant Walker, Detroit, Mich.
353. ——— **vaughanianus** Lea.* "Sawney's Creek near Camden" (Lea '39, p. 5).
354. **Medionidus subtentus** Say.* (Say '31, pl. XV.)
355. **Anodonta cataracta** Say.* (Gibbes '48; Ravenel '74, p. 58.)

357. ——— *gibbosa* Say, var. *dunlapiana* Lea. St. Stephen's Parish, Berkeley County!
357. ——— *imbecillis* Say* (*incerta* Lea). (Gibbes '48.)
358. ——— *teres* Con. Santee Canal.
359. *Symphynota decorata* Lea.* "Abbeville County" (Lea '53, p. 257).
360. *Alasmidonta coarctata* Rav. MS. "Rivers in upper part S. C." (Ravenel '74, p. 58).
361. ——— *marginata* Say.
362. ——— *triangulata* Lea.* (Simpson '00 p. 672.)
363. *Unio angustatus* Lea. St. Stephen's Parish!
364. ——— *attenuatus* Lea.* "Savannah River" (Lea '72, p. 157).
365. ——— *buckleyi* Lea.
366. ——— *complanatus* Soland. Common.
367. ——— ——— var. *jejunos* Lea.
368. ——— *confertus* Lea. Common.
369. ——— *congaraeus* Lea. Santee Canal.
370. ——— *dorsatus* Lea.* "Abbeville" (Simpson '92, p. 434).
371. ——— *errans* Lea (*palliatu*s Rav.). Oconee County.
372. ——— *folliculatus* Lea. Wateree River, Clarendon County.
373. ——— *forbesianus* Lea. Rather common.
374. ——— *fraternus* Lea.* "Abbeville County" (Lea '53, p. 263).
375. ——— *hopetonensis* Lea.* "Santee Canal" (Simpson '00, p. 729).
376. ——— *icterinus* Con.* (Wright & Walker '02, p. 13).
377. ——— *insulsus* Lea. Santee! Not common. One specimen, Navy Yard, Charleston, R. F. Touhey.
378. ——— *lanceolatus* Lea. St. Stephen's Parish.
379. ——— *lazarus* Lea. Berkeley County.
380. ——— *masoni* Con.* "Savannah River" (Simpson '00, p. 709).
381. ——— *merus* Lea.
382. ——— *micans* Lea. St. Stephen's Parish.

383. ——— *nasutulus* Lea. St. Stephen's Parish.
 384. ——— *naviculoides* Lea. Not common. Oconee
 County.
 385. ——— *obesus* Lea. Cooper River.
 386. ——— ——— var. *blandinganus* Lea. Congaree River.
 387. ——— *obnubilus* Lea.* Common.
 388. ——— *perstriatus* Lea. Rather common. Abbeville
 County.
 389. ——— *productus* Con. Berkeley County.
 390. ——— *pusillus* Lea.* "Abbeville district" (Simpson
 '00, p. 708).
 391. ——— *pygmaeus* Lea.* "Abbeville County" (Lea '53,
 p. 262).
 392. ——— *roanokensis* Lea* (*latus* Lea). "Savannah
 River" (Simpson '00, p. 728).
 393. ——— *sagittiformis* Lea.* "Abbeville County" (Simp-
 son '00, p. 731).
 394. ——— *sordidus* Lea. Congaree River.
 395. ——— *subinflatus* Con.* "Savannah River" (Jay
 '50, p. 66).
 396. ——— *tuomeyi* Lea.* "Abbeville" (Lea '53, p. 256).
 397. ——— *viridulus* Lea. Oconee County.

Order TELEODESMACEA

Superfamily CYRENACEA

Family CYRENIDAE

398. *Cyrena carolinensis* Bosc. Common. Rice fields.

Family SPHAERIIDAE

399. *Sphaerium occidentale* Prime. Not common. St.
 Stephen's Parish!
 400. *Musculium partumeium* Say. Rather common.
 401. ——— *secure* Prime. Not Common. St. Stephen's
 Parish!
 402. ——— sp. Otranto, 1911!
 403. ——— sp. Hayfield Farm, near Charleston!

404. *Pisidium abditum* Hald.* (Prime '65, p. 68.)
 405. ——— sp. Rare. Hayfield Farm!

Superfamily CARDITACEA

Family CARDITIDAE

406. *Venericardia tridentata* Say. Common.

Family CRASSATELLIDAE

407. *Crassinella lunulata* Con. Rather common.
 408. ——— sp. One young Specimen, Sullivan's Island!

Superfamily CHAMACEA

Family CHAMIDAE

409. *Chama arcinella* Linn. Rare. Waccamaw, Prof. F. S. Holmes.
 410. ——— *congregata* Con. Rare. Sullivan's Island!
 411. ——— *lazarus* Linn.* (Kurtz '60.)

Superfamily LUCINACEA

Family THYASIRIDAE

412. *Thyasira gouldii* Phillipi.* (Smith & Prime '70, p. 381).
 413. ——— *ovoidea* Dall.* (Dall '89a, p. 50.)

Family DIPLDONTIDAE

414. *Diplodonta punctata* Say. Rare. Sullivan's Island!
 415. ——— *semiaspera* Phil. Rare. Sullivan's Island!
 Pawley's Island, W. St. J. Mazjek!

Family LUCINIDAE

416. *Codakia orbicularis* Linn.* (Gibbes '48; Kurtz '60; Ravenel '74, p. 62, *Cytherea tigerina*.)
 417. ——— (*Jagonia*) *orbiculata* Mont.* (*Lucina squamosa* Lam.). (Tuomey & Holmes '57, p. 58.)
 418. ——— sp. Small (*orbiculata* Mont., young?). Rare. Sullivan's Island!
 419. *Lucina chrysostoma* Möreh. Not uncommon. Large.
 420. ——— *radula*.* (Kurtz '60.)

421. *Phacoides amiantus* Dall. Fairly common.
 422. ——— *crenella* Dall. A few specimens, Sullivan's Island!
 423. ——— *filosus* Stimp.* (Kurtz '60.)
 424. ——— *leucocyma* Dall. Very rare. Sullivan's Island, 1880!
 425. ——— *multilineatus* Con. Sullivan's Island!
 426. ——— *pennsylvanicus* Linn.* "Occasional" (Tuomey & Holmes '57, p. 56).
 427. ——— *radians* Con. A few specimens, Sullivan's Island!
 428. ——— *trisolcatus* Con. Very rare. Isle of Palms (Long Island), 1912!
 429. *Divaricella dentata* Wood. Plentiful.
 430. ——— *quadrisulcata* Orb. Frequent.

Family LEPTONIDAE

431. *Anisodonta* (Basterotia) *quadrata* Hinds. Rare. Sullivan's Island!
 432. *Lepton lepidum* Say. Very rare. Sullivan's Island!
 433. *Bornia longipes* Stimp.* (Kurtz '60; Dall '89a, p. 48.)

Family KELLIELLIDAE

434. *Turtonia minuta* Fab.* (?Dall '99, p. 879.)

Superfamily CARDIACEA

Family CARDIIDAE

435. *Cardium isocardium* Linn. Not common.
 436. ——— *muricatum* Linn. Common.
 437. ——— *oblongum* Dill.* (Ravenel '74, p. 60.)
 438. ——— *robustum* Sol. Common.
 439. ——— (Papyridea) *spinosum* Meuschen. Rare. Pawley's Island!
 440. ——— (*Laevicardium*) *chelyon* Rav.* (Ravenel '74, p. 60.)
 441. ——— ——— *mortoni* Con.* (Stimpson, *vide* Dall in letter.)

442. ——— *pictum* Rav. Stomach of fish off Charleston Bar.

443. ——— *serratum* Linn. Not uncommon.

Superfamily VENERACEA

Family VENERIDAE

444. *Dosinia discus* Rve. Abundant.

445. ——— *elegans* Con. A single valve, Kiawah Bay!

446. *Gafrarium* (*Gouldia*) *metastriata* Con.* (Tuomey & Holmes '57, p. 79.)

447. *Macrocallista nimbosa* Soland. Pawley's Island, very large and fine, Dr. F. Peyre Porcher. This species is better known as *Cytherea gigantea* Lam.

448. *Cyclinella tenuis* Recl. One specimen, Pawley's Island, W. St. J. Mazýck, 1882.

449. *Chione cancellata* Linn. Not uncommon.

450. ——— *cribraria* Con. Occasional.

451. ——— *grus* Holmes. Not common. Charleston Harbor!

452. ——— *pygmaea* Lam. Sullivan's Island!

453. ——— (*Lirophora*) *latilirata* Con. Pawley's Island, C. H. Drayton, my cabinet.

454. ——— *paphia* Linn. One very fine example, South Island, Dr. B. A. Muckenfuss, my cabinet.

455. *Venus compechiensis* Gmel. (*mortoni* Con.). Pawley's Island, very large and fine, W. St. J. Mazýck.

456. ——— *mercenaria* Linn. Abundant.

457. ——— var. *notata* Say. Rather rare.

458. ——— *orbicularis* Kurtz.* "Fort Johnson" (Kurtz '60.)

459. *Gemma gemma* Totten var. *purpurea* Lea.* (Kurtz '60.)

Family PETRICOLIDAE

460. *Petricola divaricata* Chemn. One specimen, Sullivan's Island!

461. ——— *pholadiformis* Lam. Very common.

462. ——— var. *dactylus* Sow. Not uncommon.

463. ——— (*Rupellaria*) *typica* Jonas. Two specimens, Isle of Palms (Long Island)! Sullivan's Island!

Superfamily TELLINACEA

Family TELLINIDAE

464. *Tellina alternata* Say. Common.

465. ——— *athroa* Rav.* "Sullivan's Island, rare" (Ravenel '60, p. 39).

466. ——— *crystallina* Wood. One valve. Sullivan's Island, 1892!

467. ——— *eupareia* Rav.* "Sullivan's Island, rare" (Ravenel '60, p. 39).

468. ——— *interrupta* Wood.* "Sullivan's Island, rare" (Ravenel '60, p. 35).

469. ——— *iris* Say. Rather common.

470. ——— *lintea* Con. Rare. Sullivan's Island!

471. ——— *mera* Say.* "Sullivan's Island, very rare" (Ravenel '60, p. 36).

472. ——— *omoia* Rav.* "Sullivan's Island, one specimen" (Ravenel '60, p. 38).

473. ——— *plagia* Rav.* "Near Charleston, quite rare" (Ravenel '60, p. 40).

474. ——— *polita* Say. Common.

475. ——— *radiata* Linn.* "Charleston, S. C." (Dall '01, p. 293).

476. ——— *similis* Sow. (*decora* Say). Very Rare. Sullivan's Island!

477. ——— *tenera* Say. Not uncommon.

478. ——— *versicolor* Cozzens. Rare. Sullivan's Island, 1895! Isle of Palms (Long Island), 1912!

479. *Strigilla flexuosa* Say. Not uncommon.

480. *Tellidora cristata* Recl. (*lunulata* Holmes). One valve, Morris Island, J. S. Mazýček, 1861.

481. *Metis intastriata* Say. Rather rare.

482. *Macoma balthica* Linn. Occasional.

483. ——— *brevifrons* Say. Common.

484. ——— *constricta* Brug. Not common.

485. ——— *mittelli* Dall. Rare. Colonial Lake, Charleston, fine! Sullivan's Island!

486. ——— *tenta* Say. Common.

487. ——— *tenuis* DaC.* (Dall '85, p. 153.)

488. ——— sp. Two specimens, Isle of Palms (Long Island)!

Family SEMELIDAE

489. *Semele bellastrata* Con. One valve, Sullivan's Island!

490. ——— *nuculoides* Con. Rare. Sullivan's Island!

491. ——— *proficua* Pult. (*reticulata* Gmel.). Common. Sullivan's Island!

492. *Abra aequalis* Say. Common.

493. ——— *angulata* Holmes.

494. ——— *lioica* Dall. Frequent.

495. *Cumingia tellinoides* Con. Rather rare.

Family PSAMMOBIIDAE

496. *Tagelus divisus* Spengler. Common.

497. ——— *gibbus* Spengler. Common. The finest specimens of these two species which I have seen were taken from Colonial Lake, Charleston, where they are plentiful.

Family DONACIDAE

498. *Donax fossor* Say. Very rare. Sullivan's Island!

499. ——— *variabilis* Say. Abundant.

Superfamily SOLENACEA

Family SOLENIDAE

500. *Solen viridis* Say. Common.

501. *Ensis directus* Con. Common. I collected my best specimens on Pawley's Island.

502. *Psammosolen sanctae-marthae* Chemn. One fine specimen, stomach of fish off Charleston Bar, my cabinet.

Superfamily MACTRACEA

Family MACTRIDAE

503. *Mactra similis* Say. Common.

504. ——— *solidissima* Chemn. Beaufort.

505. ——— (*Mactrotoma*) *fragilis* Gmel. Not uncommon.
 506. *Mulinia lateralis* Say. Common.
 507. *Labiosa canaliculata* Say. Common.
 508. ——— *lineata* Say. Less common than *canaliculata*.

Family MESODESMATIDAE

509. *Ervilia nitens* Mont. Very rare. Sullivan's Island!
 510. *Mesodesma concentrica* Holmes. Rare. Sullivan's Island!

Superfamily MYACEA

Family MYACIDAE

511. *Mya arenaria* Linn. Rare. Folly Island.

Family CORBULIDAE

512. *Corbula contracta* Say. Common.
 513. ——— *nasuta* Say. One specimen, Isle of Palms (Long Island)!
 514. ——— *swiftiana* C. B. Ad. One specimen, Truesdale's, Sullivan's Island!
 515. *Paramya subovata* Con. Very rare. Sullivan's Island!

Family SAXICAVIDAE

516. *Saxicava arctica* Linn. Common.
 517. ——— *rugosa* Linn. Sullivan's Island!

Family GASTROCHAENIDAE

518. *Gastrochaena ovata* Sow. Isle of Palms (Long Island)!
 Charleston Harbor, Dr. Wm. Stimpson. This is probably the *Gastrochaena americana* Stimp. of Kurtz's List.

Superfamily ADESMACEA

Family PHOLADIDAE

519. *Pholas costata* Linn. Common.
 520. ——— *truncata* Say. Common.
 521. *Dactylina campechiensis* Gmel. Fairly common.
 522. *Zirphaea crispata* Linn.* "Charleston" (Smith & Prime '70, p. 391).

523. ——— *semicostata* H. C. Lea. Rare. Pawley's Island,
W. St. J. Mazýek, my cabinet.
524. *Martesia cuneiformis* Say. Common.
525. ——— *curta* Sow. Very rare. Sullivan's Island!
526. ——— *pusilla* Linn. Isle of Palms (Long Island)!
527. ——— (*Diplothyra*) *smithii* Tryon. Not common.

Family TEREDINIDAE

528. *Teredo dilatata* Stimp.* (Tryon '62, p. 109.)
529. ——— *megotara* Hanl.* (Dall '89a, p. 74.)
530. *Xylotrya fimbriata* Jeff. Common.
531. ——— *gouldii* Bartsch. Sullivan's Island!

Order ANOMALODESMACEA

Superfamily ANATINACEA

Family LYONSIIDAE

532. *Lyonsia hyalina* Con. Very rare. Sullivan's Island,
1877!

Family ANATINIDAE

533. *Thracia corbuloidea* Blainv.* (Dall '86, p. 307.)
534. *Periploma papyracea* Say. Rare. Eding's Bay, Prof.
L. R. Gibbes.

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THE CHARLESTON MUSEUM

UNDER THE AUSPICES OF THE COLLEGE OF CHARLESTON

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