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EX LIBRIS

BIOLOGY
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CLASSIFICATION OF THE ANIMAL
KINGDOM WITH LIST OF SPECIES OB-
TAINED BY MEMBERS OF MR. A.W.
GRABAU'S CLASSES IN FIELD
ZOOLOGY.

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TO VIMU
AIRSOFLAO

ABBREVIATIONS

B = Bayville Me.
B.B = Buzzards Bay
Bev = Beverley Bridge
B.H = Boston Harbor
B.L = Beverly Ledge and Estuary
C.C = Cape Cod
C.P = Cambridge Ponds
C.R = Castle Rocks, Nahant
E.P = East Point, Nahant
G. = Gouldsborough Me.
L. = Lynn Beach and Nahant Neck
M. = Monhegan Island Me.
Mag = Magnolia
N. = Nantasket
O. = Onset
P. = Plymouth
R. = Revere Beach
S. = Swampscott
Sq. = Squantum
W. = Wareham
W.H = Woods Holl

PROTOZOA

Class 1 - FORAMINIFERA

- 1 ?(M)
- 2 ?(M)
- 3 ?(Mag)

Class 2 - INFUSORIA

- 4 *Vorticella* sp. ?(C.P.) (Fresh water)

MESOOZOA

- 5 *Volvax glabator* (C.P.) (Fresh water)

METAZOA

PHYLUM A - PORIFERA (Sponges)

Class 1 - Calcarea

Class 2 - Non - CALCAREA

- 6 *Cliona Sulphurea* (B.B.-E.P.-G.-M.-O.-R.-S.-W.H.)
- 7 *Halicondria* sp. ?(C.R.-E.P.-W.H.)
- 8 *Chalina beulata* (L.-M.-Mag.-N.-R.-S.-W.H.)
- 9 *Microciona prolifera* (B.B.-O.)

70 VIII
AIRSOTLAC

PHYLUM B - COELENTERATA

Class 1 - HYDROZOA

Order 1 - Hydridae (Fresh water)

10 *Hydra viridis* (C.P.)

11 *Hydra fusca* (C.P.)

Order 2 - Hydromedusae

Sub-order A - Hydrocarallia

Suborder B - Tubularia

12 *Hydractinia polyclina* (B.L.-C.C.-G.-L.-N.-O.-R.-S.-W.H.-

13 *Parypha crocea* (B.-Bev.-B.H.-R.-

14 *Corymorpha pendula* (B.L.-

15 *Pennaria tiarella* (E.P.-M.-W.H.-

16 *Coryne mirabilis* (E.P.-

17 *Coryne mirabilis* - medusa (B.-

18 *Clava leptostyla* (B.-B.L.-E.P.-G.-Sq.-

19 *Eudendrium dispar* (C.R.-E.P.-G.-R.-

20 *Eudendrium* sp? (E.P.-R.-)

21 *Margelis carolinensis* - medusa (W.H.-

22 *Bougainvillia superciliaris* (E.P.-M.-W.H.-

Sub-order C - Campanularia

23 *Sertularia pumila* (B.-B.L.-C.R.-E.P.-G.-L.-M.-R.-S.-Sq.-W.H.-

24 *Sertularia argentea* (G.-N.-R.-W.H.-

25 *Tima formosa* (C.C.-

26 *Obelia gelatinosa* (Bev.-B.H. = Neponsset Bridge -

27 *Obelia commissuralis* - medusa (W.H.-

28 *Obelia commissuralis* (Bev.-W.H.-

29 *Obelia geniculata* (B.-Bev.-B.L.-G.-M.-Mag.-N.-R.-S.-

30 *Campanularia flexuosa* (B.-Bev.-B.H.-B.L.-C.R.-E.P.-G.-M.-Sq.-W.H.-

31 *Clytia poterium* (B.L. = brought in on Laminaria - C.R.-E.P.-

32 *Clytia bicophora* (B.L. = brought in on Laminaria - C.R.-E.P.-M.-

Sub-order D - Trachomedusae

Sub-order E - Narcomedusae

Class 2 - SCYPHOZOA

Order 1 - Anthozoa (corals)

Suborder A - Alcyonaria

33 Alcyonium carneum (M.-

Suborder B - Rugosa (Fossil)

Sub-order C - Antipatharia (Horn corals)

Suborder D - Madreporaria (Stone corals)

34 Astrangia danae (W.H.-

35 ? (Cup coral - M.-

Sub-order E - Actinaria (Sea anemone)

36 Edwardsia lineata (W.H.-

37 Metridium marginatum (B.-Bey.-C.R.-E.P.-G.-M.-N.-R.-W.H.- also

B.L.- brought in on Laminaria

38 Rhodactinia davisii (M.-

39 Bunodes stella (G.-M.-

Order 2 - Scyphomedusae

40 Aurelia flavidula (B.-B.H.-B.L.-C.C.-E.P.-G.-M.-W.H.-

41 Cyanea arctica (B.-B.H.-E.P.-G.-M.-W.H.-

Class 3 - CTENOPHORA (Comb-bearers)

42 Idya roseola (B.-

43 Pleurobrochia rhododactyla (B.H.-

44 Bolina alata (B.-G.-

PHYLUM C - PLATODES (Flat worms)

Class 1 - TURBELLARIA

- 40 *Planaria* sp.? (C.P.) (Fresh water)
41 *Dendrocoelum* sp.? (C.P.) (Fresh water)

PHYLUM D - VERMES (worms)

Class 1 - ANNULATA

Order 1 - Hirudinia (Leeches)

- 42 *Hirudo medicinalis* (C.P.) (Fresh water)

Order 2 - Chetopoda

- 43 *Spirorbis borealis* (Dev. - BL - CR - E.P. - G - L - M - N - P - R - S - WH -
44 *Serpula dianthus* (BB - O - WH -
45 *Serpula* sp.? (G - O -
46 *Amphitrite ornata* (L -
47 *Sabellaria vulgaris* (WH -
48 *Clymenella torquata* (L -
49 *Nereis pelagica* (M -
50 *Nereis* sp.? (M -
51 *Nereis virens* (B - G -
52 *Autolytus cornutus* (WH - surface -

Class 2 - Prosopygia (Molluscoidea)

Order 1 - Sipunculacea

- 53 *Phascolosoma gouldii* (WH -
54 *Phascolosoma caementarium* (M -

Order 2 - Phoronidae

Order 3 - Bryozoa

- 59 Cellepora ramulosa (R.-
- 60 Escharella variabilis (B.B.-O.-W.H.-
- 61 Membranipora pilosa (C.R.-E.P.-G.-L.-M.-Mag.-O.-R.-S.-W.H.-
- 62 Bugula turrita (B.L.-C.R.-M.-R.)
- 63 Alcyonidium hispidum (B.-C.R.-E.P.-G.-M.-N.-R.-
- 64 Alcyonidium hirsutum (M.-
- 65 Crisia eburnea (L.-M.-P.-R.-

Order 4 - Brachiopoda

- 66 Terebratulina septentrionalis (M.-

PHYLUM E - MOLLUSCA

Class 1 - AMPHINEURA

Order 1 - Polyplacophora

- 67 Trachydermon ruber (B.B.-E.P.-G.-L.-R.-S.-
- 68 Chaetopleura apiculata (O.-

Order 2 - Aplousobranchia

Class 2 - GASTROPODA

Order 1 - Streptoneura

- 69 Acmaea testudinalis (B.-B.L.-C.R.-G.-M.-Mag.-P.-R.-W.H.-
- 70 Acmaea testudinalis var. alvens (M.-P.-
- 71 Cemorina nuchina (M.-
- 72 Margarita obscura (G.-R.-S.-
- 73 Margarita undulata (G.-
- 74 Margarita argentata (P.-
- 75 Margarita helicina (G.-
- 76 Margarita cinerea (M.-
- 77 Turbonilla interrupta (Mag.-
- 78 Odostomia bisuturalis (Mag.-

- 80 *Odostomia* sp.? (B.B.-
- 81 *Odostomia* sp.? (L.-
- 82 *Skenea planorbis* (M.-
- 83 *Melanthia decisa* (W.) (Freshwater)
- 84 *Rissoa aculeus* (L.-R.-
- 85 *Rissoa minuta* (L.-R.-
- 86 *Lacuna neritoidea* (G.-
- 87 *Lacuna vineta* (G.-L.-M.-Mag.-P.-R.-S.-W.H.-
- 88 *Lacuna vineta* var. *fusca* (L.-R.-
- 89 *Littorina palliata* (B.-C.R.-E.P.-G.-M.-N.-O.-P.-R.-W.H.-
- 90 *Littorina rudis* (B.-B.B.-Bey.-B.L.-C.R.-G.-L.-M.-N.-P.-R.-W.H.-
- 91 *Littorina rudis* var. *tenebrosa* (G.-M.-P.-R.-
- 92 *Littorina littorea* (B.-B.B.-Bey.-B.L.-C.R.-E.P.-G.-L.-M.-Mag.-O.-P.-R.-S.-W.H.-
- 93 *Crucibulum striatum* (M.-
- 94 *Crepidula convexa* (L.-O.-P.-R.-W.H.-
- 95 *Crepidula plana* (B.B.-L.-N.-O.-P.-R.-W.H.-
- 96 *Crepidula fornicata* (B.B.-G.-L.-Mag.-N.-O.-P.-R.-S.-W.H.-
- 97 *Vermetus radicula* (W.H.-
- 98 *Bitium nigrum* (B.B.-O.-W.H.-
- 99 *Cerithiopsis terebralis* (B.B.-O.-
- 100 *Natica clausa* (M.-R.-
- 101 *Neverita duplicata* (B.B.-L.-O.-P.-R.-W.H.-
- 102 *Lunatia heros* (Bey.-G.-L.-M.-Mag.-N.-O.-P.-R.-S.-W.H.-
- Lunatia heros* - egg collars (G.-L.-Mag.-N.-R.-W.H.-
- 103 *Lunatia heros* var. *triseriata* (G.-L.-M.-R.-
- 104 *Velutina haliotoidea* (G.-M.-
- 105 *Amauropsis helicoides* (L.-
- 106 *Astiris lunata* (B.B.-Mag.-
- 107 *Anachis avara* (B.B.-O.-W.H.-
- 108 *Purpura lapillus* (B.-B.L.-C.R.-E.P.-G.-L.-M.-Mag.-P.-R.-W.H.-
- ~~109~~ *Purpura lapillus* - eggs (B.L.-C.R.-E.P.-G.-M.-N.-W.H.-
- 110 *Purpura lapillus* var. *costata* (B.L.-G.-M.-
- 111 *Eupleura caudata* (O.-
- 112 *Urosalpinx cinerea* (B.B.-O.-R.-W.H.-
- Urosalpinx cinerea* - egg cases (B.B.-
- 113 *Ilyanassa obsoleta* (B.B.-Bey.-B.L.-L.-O.-P.-R.-W.H.-Marblehead-
- 114 *Trilia trivittata* (B.B.-B.L.-G.-L.-M.-Mag.-N.-P.-R.-S.-W.H.-
- 115 *Nassa vibex* (B.B.-O.-

- 115 *Sycotypus canaliculatus* (B.B.-O.-W.H.-
Sycotypus canaliculatus - egg cases (B.B.-O.-W.H.-
 116 *Fulgur carica* (B.B.-O.-W.H.-
Fulgur carica - egg cases (W.H.-
 117 *Neptunea pygmaea* (G.-M.-
 118 *Neptunea curta* (L.-M.-Mag.-S.-W.H.-
 119 *Neptunea ventricosus* (M.-
 120 *Buccinum undatum* (G.-L.-M.-P.-R.-S.-W.H.-
Buccinum undatum - egg cases (G.-M.-
 121 *Chrysodomus decemcostatus* (G.-L.-M.-R.-S.-
 122 *Bela decussata* (M.-

Order 2- ~~E~~thyneura

Suborder A - Opisthobranchia

Family (a) Tectibranchia

Family (b) Nudibranchia

- 123 *Aeolis papillosa* (Bev.-E.P.-
 124 *Dendronotus arborescens* (E.P.-
 125 *Doris bifidia* (Bev.-

Sub-order B - Pulmonata

- 126 *Melampus bidentatus* (B.B.-L.-Mag.-O.-R.-W.H.-
 127 *Melampus bidentatus* var. *lineatus* (B.B.-O.-R.-
 128 *Planorbis* sp? (C.P.) (Fresh water)
 129 *Physa* sp? (C.P.) (Fresh water)
 130 *Succinea obliqua* (G.) (Terrestrial)
 131 *Helix albolabris* (B.B.-M.-Mag.-W.H.-) (Terrestrial)
 132 *Helix alternata* (B.B.-G.-) (Terrestrial)
 133 *Hyalina exigua* (G.) (Terrestrial)

Class 3 - PTEROPODA
Order 1 - Thecosomata

Order 2 - Gymnosomata

Class 4 - SCAPHOPODA

Class 5 - LAMELLIBRANCHIATA

Order 1 - Isomya

- 134 *Argina pexata* (B.B.-C.C.-O.-W.H.-
- 135 *Scapharca transversa* (B.B.-C.C.-O.-W.H.-
- 136 *Nucula tennis* (M.)
- 137 *Nucula proxima* (G.-M.-O.-
- 138 *Leda tenuisulcata* (G.)
- 139 *Leda* sp.? (M.)
- 140 *Yoldia sepotilla* (M.)
- 141 *Yoldia limatula* (G.)
- 142 *Solemya velum* (R.-W.H.-
- 143 *Astarte undata* (B.B.-G.-M.-R.-W.H.-
- 144 *Astarte undata* var. *lutea* (M.)
- 145 *Astarte castanea* (C.C.-M.-
- 146 *Astarte crebriacostata* (M.)
- 147 *Astarte sulcata* (M.)
- 148 *Cyclocardia borealis* (G.-M.-
- 149 *Levocardium mortoni* (B.B.-O.-W.H.-
- 150 *Cardium pinnulatum* (G.-M.-
- 151 *Cyprina islandica* (L.-M.-Mag.-P.-R.-
- 152 *Tottemia gemma* (L.-R.-
- 153 *Callista convexa* (R.-
- 154 *Venus mercenaria* (B.B.-C.C.-O.-R.-W.H.-
- 155 *Petricola pholadiformis* (L.-Mag.-P.-R.-W.H.-

- 156 *Macra solidissima* (L.-Mag.-P.-R.-W.H.-
 157 *Ceronia arcata* (C.G.-W.H.-
 158 *Tellina tenta* (Mag.-R.-W.H.-
 159 *Tellina tenera* (L.-P.-R.-
 160 *Macoma fusca* (G.-P.-
 161 *Tagelus gibbus* (O.-
 162 *Siliqua costata* (L.-Mag.-P.-R.-W.H.-
 163 *Ensatella omericana* (B.B.-G.-L.-O.-P.-R.-W.H.-
 164 *Thracia truncata* (M.-
 165 *Thracia conradi* (R.-L.-
 166 *Cochlodesma leanum* (M.-
 167 *Lyonsia hyalina* (R.-W.H.-
 168 *Mya arenaria* (B.B.-B.L.-G.-L.-M.-Mag.-O.-P.-R.-W.H.-
 169 *Mya truncata* (R.-
 170 *Saxicava arctica* (E.P.-G.-M.-Mag.-W.H.-
 171 *Zirphaea crispata* (R.-
 172 *Pholas truncata* (B.B.-
 173 *Anodon implicata* (W.-
 174 *Unio radiatus* (W.-
 175 *Unio nasutus* (W.-
 176 *Unio complanatus* (W.-

} Fresh water clams or
mussels.

Order 2- Heteromya

- 177 *Crenella glandula* (G.-M.-
 178 *Modiolaria discors* (G.-
 179 *Modiola plicatula* (B.B.-Mag.-O.-P.-R.-W.H.-
 180 *Modiola modiolus* (E.P.-G.-L.-M.-N.-P.-R.-W.H.-
 181 *Mytilus edulis* (Bey.-B.L.-E.P.-G.-L.-M.-Mag.-P.-R.-W.H.-

182 *Mytilus edulis* var. *pellucidus* (Bey.-M.-P.-

Order 3- *Monomya*

183 *Ostrea virginiana* (B.B.-O.-R.-W.H.-

184 *Anomia aculeata* (M.-Mag.-P.-R.-

185 *Anomia glabra* (B.B.-E.P.-G.-M.-Mag.-O.-R.-W.H.-

186 *Pecten tenuicostatus* (G.-L.-M.-

187 *Pecten irradians* (B.B.-O.-P.-W.H.-

Class 6 - CEPHALOPODA

Order 1- *Tetrabranchiata* (All ~~except~~ except one
genus - *Nutilus*)

Order 2- *Dibranchiata*

Sub-order A- *Decapoda*

188 *Loligo pealii* (C.G.-W.H.-

189 *Ommastrephes illecebrosa* (G.-M.-

~~189~~ *Ommastrephes illecebrosa*-eggs (R.-

Sub-order B- *Octopoda*

PHYLUM F - ECHINODERMATA

Class 1- *HOLOTHUROIDEA* (Sea-cucumbers)

190 *Caudina arenata* (R.-

191 *Thyone priareus* (W.H.-

192 *Pentacta frondosa* (G.-M.-

Class 2- ECHINOIDEA (Sea-urchins)

- 193 *Echinarachnius parma* (B.-G.-M.-Mag.-W.H.-
194 *Arbacia punctulata* (M.-W.H.-
195 *Strongylocentrotus drobachiensis* (Bey.-B.L.-C.R.-E.P.-G.-M.-N.-
R.-S.-W.H.-

Class 3- ASTEROIDEA

(Star-fishes)

- 196 *Cribrella sanguinolenta* (B.L.-E.P.-M.-
197 *Asterias vulgaris* (B.-Bey.-B.L.-C.R.-E.P.-G.-L.-M.-R.-S.-W.H.-
198 *Asterias forbesii* (Bey.-B.L.-C.R.-E.P.-L.-M.-
199 *Hippasterias phrygiana* (M.-
200 *Ctenodiscus crispatus* (M.-

Class 4- OPHIUROIDEA (Brittle stars)

- 201 *Amphipholis elegans* (E.P.-M.-
202 *Ophiopholis aculeata* (S.-E.P.-G.-M.-R.-
203 *Ophiura olivacea* (O.-
204 *Ophioglypha sarsii* (M.-

Class 5- PELMATOZOA

PHYLUM G- ARTHROPODA

SUB-PHYLUM I- BRANCHIATA

Type- Crustacea

Class I- ENTOMOSTRACA

Order 1- Phyllopoda

- 205 *Daphnia* sp.? (C.P.) (Fresh water)
Branchipus sp.? (C.P.) (Fresh water)

Order 2- Ostracoda

Order 3- Copepoda

- 206 *Cyclops* sp.? (C.P.) (Fresh water)

Order 4 - Cirrepedia

207 *Lepas analifera* (M.-

208 *Lepas fascicularis* (M.-

209 *Balanus balanoides* (B.B.-Ber.-B.L.-C.R.-E.P.-G.-M.-N.-O.-S.-W.H.

210 *Balanus crenatus* (M.-

Class 2 - MALACOSTRACA

Sub-class 1 - Leptostraca

Sub-class 2 - Orthrostraca

Order 1 - Anisopoda

Order 2 - Isopoda (Vertically Flattened)

211 *Idotea phosphorea* (G.-?

212 *Idotea irrorata* (E.P.-G.-R.-W.H.-

213 *Idotea caeca* (R.-S.-

Order 3 - Amphipoda (laterally flattened)

214 *Caprella geometrica* (Ber.-G.-R.-W.H.-

215 *Gammarus ornatus* (G.-W.H.-

216 *Gammarus* sp.? (G.-R.-

217 *Talorchestia megalophthalma* (B.B.-C.E.-

218 *Orchestia agilis* (B.B.-G.-M.-R.-S.-W.H.-

Sub-Class 3 - Thoracostraca

Order 1 - Cumacea

Order 2 - Stomatopoda

Order 3 - Schizopoda

219 *Mysis stenolepis* (G.-

Order 4 - Decapoda

Sub-order A - Macrura

220 *Crangon vulgaris* (Ber.-W.H.-

221 *Homarus americanus* (B.B.-M.-W.H.-

Homarus americanus - eggs (R.-W.H.-

Suborder B - Anomoura

- 222 *Eupagurus longicarpus* (G.-M.-O.-P.-R.-W.H.-
223 *Eupagurus bernhardus* (Bey.-G.-L.-O.-R.-
224 *Eupagurus pollicaris* (G.-O.-W.H.-
225 *Hippa talpoida* (W.H.-

Sub-order C - Brachyura

- 226 *Libinia canaliculata* (G.-M.-O.-
227 *Callinectes hastatus* (O.-
228 *Platyonichus ocellatus* (W.H.-
229 *Carcinus granulatus* (W.H.-
230 *Cancer irroratus* (Bey.-B.L.-E.P.-G.-L.-M.-O.-R.-S.-W.H.-
231 *Gelasimus pugilator* (B.B.-O.-W.H.-

Class 3 - PALAEOSTRACA

Order 1 - Xiphosura

- 232 *Limulus polyphemus* (B.B.-C.C.-L.-O.-R.-S.-W.H.-

SUB-PHYLUM 2 - TRACHEATA

Class 1 - PROTOTRACHEATA

Class 2 - ARACHNIDA

Class 3 - MYRIPODA

Class 4 - INSECTA

PHYLUM H - TUNICATA

- 33-33 *Amaroecium pallidum* (E.P.-M.-
- 34-34 *Botryllus gouldii* (P.-
- 35-35 *Boltenia clavata* (M.-
- 36-36 *Boltenia microcosmus* (S.-
- 37-37 *Molgula manhattensis* (P.-
- 38-38 *Glandula mollis* (M.-
- 39-39 *Ascidia mollis* (M.-

PHYLUM I - VERTEBRATA

Class 1 - PISCES (Fishes)

Class 2 - AMPHIBIA (Amphibians)

Class 3 - REPTILIA (Reptiles)

Class 4 - AVES (Birds)

Class 5 - MAMMALIA (Mammals)

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